

August 6, 2008

MEMORANDUM

TO: Air Docket EPA-HQ-OAR-2008-0380

SUBJECT: Iowa State University Results

The model developed by Lihong Lu McPhail and Bruce Babcock of Iowa State University was updated with the following changes since the June 2008 Working Paper was published (EPA-HQ-OAR-2008-0380-0548).

- July 11, 2008 World Agricultural Supply and Demand Estimates (WASDE) information incorporated.
 - Mean estimate of 148.4 bushels of corn per acre (bu/acre).
 - Maximum corn yield is 160 bu/acre
 - Minimum corn yield is 130 bu/acre
 - Standard deviation is 6 bu/acre
- Average natural gas prices were increased to \$15 per million BTU. Variable operating costs are now assumed to be \$0.72/bushel.
- The price volatility of 2008/2009 crude oil prices was adjusted to be 22%. This lower volatility reflects the passage of time as well as an adjustment made to account for the volatility of the average crude oil price. The crude oil price volatility was taken from the crude oil options markets.
- Ethanol does not need to be priced on an energy equivalent basis with gasoline until quantities exceed 10 billion gallons of ethanol.

Four sets of modeling results are presented in this document.

1. The primary volume scenario assumes 10 billion gallons of ethanol are required to meet the RFS for the 2008/2009 corn marketing year. This analysis uses a mean crude oil price of \$125/barrel. (See Table 1)
2. A sensitivity analysis was conducted assuming 9 billion gallons of ethanol are required to meet the RFS for the 2008/2009 corn marketing year. This 9 billion gallon scenario assumes that Renewable Identification Number (RIN) credits¹ and additional biodiesel will fulfill part of the RFS standard. (See Table 2)
3. A sensitivity analysis was conducted assuming taxpayers pay for the tax credit, not consumers. These results are presented for the 10 billion gallon scenario (see Table 3) and the 9 billion gallon scenario (see Table 4).
4. A sensitivity analysis was conducted using a mean crude oil price of \$146/barrel, which reflected average future NYMEX prices on July 12, 2008. These results are presented for the 10 billion gallon scenario (See Table 5) and the 9 billion gallon scenario (see Table 6).

¹ RINs are generated by producers of renewable fuels, and are used by refiners and importers to show compliance with the RFS. Excess RINs may be used as credits for the year following their generation, e.g. 2007 RINs may be used to show compliance with the 2008 RFS standard, and 2008 RINs may be used to show compliance with the 2009 RFS standard.

TABLE 1

yield draws	crude oil price draws	corn acres draws	Mandate 10bg, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
149.3976	153.238	87.0669		7.1206	2.8312	3.4825	12054.91	4957.196	1320.884	1817.45	4724.379	833	12992.01	284.0473	0.9997	112315.3	141491.4	13276.05	128215.3	137217.8	3.4214	0
150.9763	134.3386	88.7765		5.7875	2.6536	3.2204	12186.37	5246.042	1349.573	2070.571	4266.005	852.1763	11731.52	283.6377	1	114526.1	142441.3	12015.15	130426.1	138573.6	3.1726	0
143.4316	98.2405	87.4119		5.9975	2.3941	2.6061	11237.42	5200.539	1345.054	1994.899	3461.702	833.2244	9411.441	588.5594	0.7878	119059.5	144959.5	10000	134959.5	141740.5	2.5915	1
154.0182	87.8167	88.4692		4.6774	2.0718	2.3623	12350.3	5486.566	1373.463	2220.447	3915.465	952.3547	10761.003	281.8254	0.9787	119720.5	146663.4	11042.85	135620.5	143108.7	2.3404	0
155.6236	130.9441	87.9271		4.6558	2.6355	3.1935	12414.2	5491.24	1373.927	2256.731	3936.006	954.3014	10824.02	283.6912	1	115264.7	142272.5	11107.71	131164.7	138696.9	3.15	0
144.0749	134.3943	86.8879		6.8877	2.6706	3.2453	11517.93	5007.66	1325.896	1911.544	4037.83	833	11055.89	283.7784	0.8997	114837.7	142077.4	11339.67	130737.7	138427.2	3.1994	0
157.9638	107.4119	88.03		3.5783	2.3247	2.7352	12805.52	5724.696	1397.114	2007.285	4222.892	1051.536	11612.96	282.5751	1	117174.3	144969.8	11895.53	133074.3	141140.6	2.7015	0
148.4493	142.1046	87.0739		6.7808	2.7592	3.3761	11713.67	5030.83	1328.198	2100.265	4019.381	833	11053.3	284.0721	1	114146.1	141383.5	11337.37	130046.1	137734	3.3266	0
140.9131	163.9635	88.7388		8.06	3.0048	3.7382	11105.31	4753.661	1300.668	1902.915	3913.065	833	10717.74	284.9331	0.9056	112445.5	139348.2	11002.67	128345.5	135806.4	3.6803	0
151.3027	115.6253	86.7323		6.0523	2.4492	2.9188	11684.29	5188.662	1343.874	2005.162	3911.594	833	10734.71	283.0828	0.944	116781.7	143699.5	11017.79	132681.7	140152.9	2.8828	0
144.9954	122.0301	87.4763		6.4537	2.5462	3.0617	11414.05	5101.692	1335.236	2090.295	3651.823	833	9996.152	283.4933	0.8947	116509.4	142689	10279.65	132409.4	139380	3.0246	0
139.5499	108.9955	87.0647		6.2771	2.5023	2.8217	10910.13	5139.963	1339.037	1734.788	3461.344	833	9485.152	514.8481	0.9147	117925.7	143825.7	10000	133825.7	140606.7	2.7995	1
138.3716	151.9983	87.6467		7.2761	2.8475	3.5064	11063.49	4923.514	1317.539	1270.973	4316.464	833	11869.01	284.2526	0.9946	112923	140976.2	12153.26	128823	137064.1	3.4466	0
139.4801	95.5514	88.1259		5.5037	2.2628	2.5521	11086.67	5307.531	1355.68	1623.121	3520.556	877.7866	9596.322	403.6783	0.826	119382.4	145282.4	10000	135282.4	142063.4	2.5322	1
144.6487	117.7522	87.1718		5.4605	2.4662	2.944	11595.24	5316.889	1356.61	1571.685	4066.372	881.6842	11182.52	283.0882	1	116352.3	143717.9	11465.61	132252.3	140027.1	2.9059	0
139.1734	68.3946	85.5808		6.8521	2.6197	1.9413	10574.25	5015.388	1326.664	2004.47	2992.731	833	8094.144	1905.856	0.7172	122353.2	148253.2	10000	138253.2	145034.2	1.9871	0
152.0039	87.3776	87.7827		5.0454	2.1269	2.3794	11968.77	5406.822	1365.542	2329.325	3545.943	919.1413	9633.225	366.5755	0.7774	120309.2	146209.2	10000	136209.2	142990.2	2.3622	1
158.1802	146.8442	87.9729		3.3502	2.812	3.4539	12864.94	5774.119	1402.023	2190.743	4023.931	1072.12	11065.81	284.2448	1	113725.6	140975.7	11350.06	129625.6	137322.1	3.4022	0
145.0376	141.4828	86.9308		6.5434	2.7262	3.3274	11550.06	5082.268	1333.307	1501.326	4398.158	833	12094.94	283.8278	1	113721.2	142000	12378.76	129621.2	138015.3	3.275	0
137.3051	99.4768	87.8318		6.8182	2.6183	2.6279	10739.88	5022.718	1327.392	1837.18	3317.585	833	9003.161	996.8395	0.7622	118864.4	144764.4	10000	134764.4	141545.4	2.6273	1
157.0183	134.6131	85.8616		6.5865	2.6443	3.2067	12194.25	5072.931	1332.379	2099.073	4554.862	833	12249.36	283.5429	0.9939	114258.5	142691.4	12532.9	130158.5	138657.4	3.1573	0
148.1074	112.8532	87.4783		5.994	2.4081	2.8583	11513.05	5201.296	1345.129	1706.305	4024.778	833.5398	10996.44	282.9171	0.8628	116930.1	144109.4	11279.35	132830.1	140478.6	2.823	0
140.1639	195.2319	87.5491		7.7438	3.2785	4.142	11281.23	4822.174	1307.473	1641.67	4274.914	833	11756.02	285.6762	1	109636.7	137578.4	12041.7	125536.7	133702.2	4.0664	0
155.3134	126.5133	86.7112		5.1402	2.5509	3.0689	12644.2	5386.289	1363.503	2152.685	4429.135	910.5893	12810.12	283.2483	1	115032.5	143395.9	12463.37	130932.5	139384	3.0239	0
147.6712	101.0302	86.6095		5.5482	2.2734	2.6595	11642	5297.884	1354.722	2071.209	3642.412	873.7685	9921.551	282.5824	0.8155	118698.5	144802.6	10204.13	134598.5	141517.9	2.6323	0
154.7548	72.9442	86.6623		4.4004	1.9586	2.0564	12211.16	5546.589	1379.424	2414.923	3490.873	977.3543	9535.239	464.7612	0.8586	122011.5	147911.5	10000	137911.5	144692.5	2.0498	1
145.8128	131.1625	87.5276		6.4707	2.6327	3.1894	11665.52	5098.018	1334.871	1878.903	4018.725	833	11051.4	283.6536	0.9993	115137.1	142372.2	11335.05	131037.1	138723.4	3.1451	0
151.4643	147.6451	86.5202		5.8523	2.8204	3.4663	12019.52	5301.994	1348.178	2160.153	4030.875	846.3254	11084.91	284.27	1	113647.7	140916.9	11369.18	129547.7	137257.1	3.4141	0
146.8922	132.9313	86.2498		6.8131	2.664	3.2356	11416.76	5023.83	1327.502	1961.546	3868.884	833	10614.71	283.8123	0.9385	115179.1	141977.6	10898.52	131079.1	138469.4	3.1917	0
153.5234	129.9593	87.8296		5.4963	2.6093	3.155	12192.8	5309.139	1355.84	2088.689	4158.682	878.4562	11436.38	283.5291	1	115066.5	142686.4	11719.9	130966.5	138913.7	3.1102	0
156.9089	142.5046	87.5687		6.9085	2.7482	3.3599	12228.33	5003.166	1325.45	2420.239	4244.48	833	11671.76	283.9548	0.9971	113826.6	141682.3	11955.72	129726.6	137833.8	3.3083	0
144.6961	127.2633	87.2995		4.8375	2.6073	3.152	11337.93	5451.864	1370.016	1490.242	3685.909	937.9015	10136.26	283.6822	1	115937.3	142257.3	10419.94	131837.3	138903.1	3.1121	0
153.7661	128.4629	86.8128		5.1823	2.5978	3.138	12163.94	5377.162	1362.596	2054.246	4061.144	906.788	11168.15	283.524	1	115333.1	142684.8	11451.67	131233.1	138998.5	3.0946	0
153.5561	102.5235	86.6377		5.411	2.2773	2.6653	11973.41	5327.627	1357.676	2086.744	3913.201	886.1568	10750.69	282.5094	0.9687	118117.6	145050.8	11033.2	134017.6	141499.2	2.6357	0
153.8637	112.6884	87.3043		5.7261	2.3857	2.8252	11948.47	5259.345	1350.894	1733.048	4345.47	857.7172	11947.06	282.7382	0.9894	116476.1	144605.9	12229.8	132376.1	140669.1	2.7881	0
140.5267	154.1907	87.3376		7.887	2.9212	3.6148	11016.43	4791.142	1304.391	2019.555	3666.339	833	9966.62	284.7606	0.7861	113589.2	139740.6	10251.38	129489.2	136440.7	3.564	0
139.5279	146.07	87.3238		7.4337	2.836	3.4891	10748.11	4889.358	1314.146	1740.485	3569.125	833	9786.935	284.978	0.9274	114374.5	140345.9	10071.43	130274.5	137103.9	3.4422	0
147.2167	161.6265	87.9868		7.0778	2.9467	3.6526	11582.21	4966.474	1321.806	1709.953	4348.975	833	11959.69	284.5631	1	112090.5	140234.8	12244.25	127990.5	136293.4	3.591	0
153.7958	87.5213	86.9924		4.543	2.055	2.3376	12183.26	5515.676	1376.354	1754.819	4169.934	964.4792	11466.87	281.7053	0.9976	119380.5	147029.1	11748.58	135280.5	143247.2	2.315	0
142.4852	132.8787	87.5112		6.9925	2.6789	3.2575	11211.76	4984.958	1323.641	2010.343	3657.814	833	9966.696	283.944	0.8203	115488.3	141638.9	10250.64	131388.3	138339.2	3.2156	0
148.9481	111.437	89.1041		5.6323	2.3911	2.8332	12013.92	5279.666	1352.913	2135.564	3977.597	866.1809	10938.37	282.8672	0.9997	117101.6	144222.9	11211.23	133001.6	140610.7	2.7988	0
149.6143	134.4663	87.1196		6.9243	2.6742	3.2507	11357.29	4999.733	1325.109	1796.963	4000.482	833	10939.82	283.8052	0.8777	114885.5	142009.1	11223.62	130785.5	138396.2	3.2051	0
152.5807	121.2804	88.6289		4.5188	2.5329	3.0423	12131.79	5520.918	1376.875	2167.811	3697.528	966.6624	10168.2	283.4284	1	116499.6	142851.2	10451.63	132399.6	139486.9	3.005	0
146.544	157.2633	88.1741		6.6684	2.9181	3.6104	11493.88	5055.19	1330.617	1754.246	4118.829	833	11326.78	284.5589	1	112726.4	140237.7	11611.34	128626.4	136500	3.5531	0
152.8763	112.577	87.0478		5.5674	2.4076	2.8575	12011.58	5293.737	1354.31	2142.743	3946.748	872.0412	10853.56	282.9313	1	117028.5	144					

TABLE 1

yield draws	crude oil price draws	corn acres draws	Mandate 10bg, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
149.2147	88.0786	86.8911		4.8303	2.0873	2.385	11876	5453.438	1370.172	2020.541	3691.291	938.5571	10105.46	281.9376	0.8969	120037	146324.4	10387.4	135937	142980.7	2.3639	0
148.1496	111.7586	86.3496		5.97	2.409	2.8595	11329.68	5206.509	1345.647	1780.08	3759.733	835.7111	10290.97	282.9986	0.8937	117390	143864	10573.97	133290	140460.2	2.8264	0
156.8153	125.1213	87.2528		5.7618	2.5325	3.0418	12668.49	5251.619	1350.127	2354.407	4455.841	854.4991	12253.56	283.1801	1	115127.4	143564.1	12536.74	131027.4	139528.5	2.9973	0
141.4872	149.0365	87.575		7.3066	2.8292	3.4793	11397.43	4916.894	1316.881	1803.737	4124.919	833	11335.62	284.2652	0.9762	113414.6	140934.5	11619.89	129314.6	137194.1	3.4257	0
144.1895	104.7672	86.9868		6.5312	2.567	2.7364	11475.38	5084.914	1333.569	2443.263	3378.638	833	9246.412	753.5878	0.891	118333.9	144233.9	10000	134233.9	141014.9	2.7246	1
145.5094	114.4849	87.0839		6.5804	2.5589	2.9278	11352.08	5074.246	1335.51	2213.049	3497.271	833	9514.909	485.0911	0.798	117367	143267	10000	133267	140048	2.902	1
151.9111	123.331	87.5112		4.3582	2.5249	3.0306	12352.73	5555.715	1380.331	1801.349	4232.176	981.1553	11638.49	283.2281	1	115592.2	143413.9	11921.71	131492.2	139576.3	2.9886	0
145.5125	87.9992	88.6169		4.741	2.0703	2.3601	11708.76	5472.791	1372.095	1507.287	4007.968	946.6176	10991.95	281.7992	0.9304	119577.9	146751.6	11273.75	135477.9	143122.6	2.3379	0
140.5736	105.9366	86.3352		6.0135	2.4134	2.7625	10715.46	5197.071	1344.709	1431.987	3506.69	833	9580.365	419.6352	0.8619	118259.6	144159.6	10000	134159.6	140940.6	2.7383	1
154.5385	136.8717	86.7884		6.6716	2.6708	3.2457	12220.09	5054.485	1330.547	2154.144	4445.916	833	12224.97	283.6314	0.9946	114067.9	142476.5	12508.6	129967.9	138449.9	3.1953	0
141.1434	116.9603	87.8597		6.059	2.4731	2.954	11229.67	5187.219	1343.731	1674.233	3789.485	833	10415.62	283.199	0.981	116805.2	143404	10698.82	132705.2	139960.1	2.9182	0
147.5899	162.9124	87.4625		6.1548	2.9792	3.7005	11654.76	5166.457	1341.668	1818.973	4092.664	833	11254.83	284.7705	1	112295.9	139735.5	11539.6	128195.9	136020.9	3.641	0
137.7406	124.4174	87.4588		6.8747	2.6676	3.1131	11211.41	5010.479	1326.177	2063.317	3486.441	833	9547.376	452.6238	0.9021	116387.4	142287.4	10000	132287.4	139685.4	3.0818	1
143.2957	142.7005	87.2719		7.2362	2.7944	3.4278	11488.83	4932.146	1318.396	2390.643	3612.643	833	9919.959	284.3396	0.9566	114613.3	140717.6	10204.3	130513.3	137432.8	3.3819	0
143.2929	122.7861	86.3155		6.4837	2.5616	3.0846	10906.08	5095.19	1334.59	1691.78	3549.524	833	9727.747	283.5777	0.9166	116564.9	142476.2	10011.32	132464.9	139253.6	3.0478	0
141.9717	110.7879	86.813		5.9981	2.4223	2.8584	11400.09	5200.403	1345.04	2083.06	3536.415	833.1679	9689.568	310.4317	0.9122	117770.1	143670.1	10000	133670.1	140451.1	2.8281	1
151.3739	107.5761	87.0107		5.7258	2.3413	2.7597	12067.07	5259.413	1350.901	2211.005	3986.009	857.7456	10913.44	282.7047	0.8988	117508.3	144604.4	11196.15	133408.3	141004.4	2.7273	0
136.1197	117.0685	87.6172		7.8096	2.889	2.9711	10914.82	4807.915	1360.057	2269.585	3296.266	833	9828.27	1071.731	0.7365	117022	142922	10000	132922	139703	2.9253	1
134.8637	129.708	88.3075		7.3085	2.7621	3.2078	10747.01	4916.493	1316.841	1791.034	3487.646	833	9488.142	511.8585	0.7971	115872	141772	10000	131772	138553	3.1763	1
147.0606	102.9345	87.8629		5.1514	2.2599	2.6398	11819.69	5383.855	1363.261	1436.382	4324.612	909.5758	11892.68	282.3344	1	117494.4	145569.4	12175.02	133394.4	141650.3	2.608	0
138.0171	111.8329	87.678		6.9313	2.6682	2.8744	10720.63	4998.225	1324.959	1780.61	3381.838	833	9231.192	768.8077	0.8478	117595.9	143495.9	10000	133495.9	140279.6	2.86	1
142.6514	98.7451	86.4669		5.7849	2.3411	2.6174	11143.58	5246.611	1349.63	1796.055	3496.872	852.4134	9529.872	470.1279	0.823	119022.2	144922.2	10000	134922.2	141703.2	2.5983	1
156.7515	99.5053	87.3241		4.918	2.2306	2.5964	12427.15	5434.443	1368.286	2276.486	4015.289	930.6457	11042.05	282.3247	1	118289.5	145513.9	11324.37	134189.5	141868.6	2.568	0
154.6372	132.2082	87.0574		4.1005	2.6529	3.2192	12239.57	5611.563	1385.878	1936.796	3898.92	1004.416	10722.03	283.7618	1	115195.5	142101.3	11005.79	131095.5	138586.6	3.1753	0
144.0936	104.1055	86.7629		6.0214	2.3983	2.7259	11465.13	5195.36	1344.539	2169.749	3520.481	833	9561.47	438.5305	0.7734	118450.4	144350.4	10000	134350.4	141131.4	2.7032	1
142.5699	100.0141	88.6125		5.5653	2.2721	2.6447	11269.03	5294.191	1354.355	1776.019	3570.236	872.2305	9700.451	299.5487	0.7789	118909.7	144809.7	10000	134809.7	141590.7	2.619	1
139.83	165.9821	87.0748		6.7354	3.0445	3.7967	11077.88	5040.66	1329.174	1823.659	3649.391	833	10035.83	285.1659	1	112578.4	138799.4	10320.99	128478.4	135477.1	3.7408	0
154.0091	169.1177	88.4499		4.7585	3.0443	3.7965	12509.58	5468.986	1371.717	2249.137	4072.705	945.0327	11199.95	284.9931	1	111823.7	139207.8	11484.94	127723.7	135511.7	3.7344	0
151.7941	137.409	87.96		5.0637	2.6907	3.275	12226.84	5402.871	1365.15	1897.763	4241.564	917.4959	11664.31	283.7673	1	114281.1	142129.2	11948.08	130181.1	138283.1	3.2259	0
153.7616	98.4204	88.3696		4.5644	2.2046	2.5582	12280.55	5511.054	1375.895	1804.711	4224.338	962.5541	11616.93	282.1816	1	118110.2	145909.3	11899.11	134010.2	142079	2.5294	0
148.7717	130.466	87.3175		6.6329	2.6153	3.1639	11689.54	5062.868	1331.38	1893.798	4166.947	833	11434.56	283.5491	0.9446	115020.4	142638.6	11718.11	130920.4	138866.5	3.1188	0
148.3052	135.2786	87.6513		6.9302	2.6963	3.2832	11819.03	4998.454	1324.982	2462.779	3797.817	833	10418.51	283.9451	0.9361	115054.9	141657.3	10702.45	130954.9	138212.2	3.2389	0
142.0122	154.716	87.5326		7.88	2.9333	3.6326	11022.48	4792.668	1304.543	2125.756	3564.509	833	9726.253	284.8352	0.842	113651.5	139562.6	10011.09	129551.5	136340	3.5824	0
150.6393	139.7137	87.3035		5.0589	2.7246	3.325	11882.88	5403.907	1365.253	1764.054	4129.743	917.9272	11356.8	283.9181	1	114218.2	141758.9	11640.71	130118.2	138017.5	3.2757	0
147.6786	93.0475	87.6235		5.0091	2.1541	2.4835	11859.88	5414.695	1366.324	1984.31	3770.134	922.4203	10350.27	282.1385	0.9519	119349.7	145882.1	10632.41	135249.7	142459.5	2.4595	0
158.3773	87.8361	88.2037		4.8402	2.0769	2.3698	12562.61	5451.281	1369.958	2554.016	3847.694	937.6584	10488.5	281.8676	0.8266	119862.3	146532.7	10770.37	135762.3	143065.7	2.3483	0
141.8932	106.1242	86.4721		6.252	2.4615	2.7654	11195.17	5145.401	1339.577	1979.381	3495.809	833	9490.311	509.6894	0.7673	118226.6	144126.6	10000	134126.6	140607.6	2.7443	1
142.9509	156.5496	85.8512		7.3534	2.9094	3.5976	10990.43	4906.772	1315.876	1398.764	4134.017	833	11368.54	284.5245	0.9999	112766.9	140320	11653.07	128666.9	136568.9	3.5404	0
156.0865	148.5365	88.321		5.9251	2.8241	3.4717	12326.07	5216.232	1346.612	2404.154	4117.312	839.7605	11322.61	284.2501	1	113463.2	140970.1	11606.86	129363.2	137233.9	3.4184	0
150.3366	121.3781	87.2078		4.3611	2.525	3.0307	12296.25	5555.093	1380.269	2133.283	3844.705	980.8962	10572.94	283.3542	1	116294.4	143050.7	10856.29	132194.4	139556.1	2.9923	0
146.9459	151.5014	88.5326		4.7032	2.8834	3.5591	11765.56	5480.98	1372.908	1817.809	3741.831	950.0283	10290.04	284.5884	1	113674.5	140149.1	10574.63	129574.5	136745.1	3.5081	0
142.6011	119.7441	86.7178		6.6521	2.5782	3.0282	11390.05	5058.722	1330.968	2232.377	3532.983	833	9609.776	390.2244	0.7946	116851.1	142751.1	10000	132751.1	139532.1	2.9967	1
155.0264	157.2993	87.0282		5.6225	2.8794	3.5534	12346.45	5281.799	1353.125	1792.425	4650.036	867.0692	12787.6	284.2294	1	112074.6	141046.4	13071.83	127974.6	136838.6	3.4909	0
155.5689	74.8171	87.125		4.0587	1.8765	2.0742	12540.92	5620.617	1386.777	2162.107	3961.229	1008.187	10864.83	284.2297	0.9324	121182.2	148228.2	11146	137082.2	144640.3	2.0594	0
146.6603	112.1698	86.6829		6.2681	2.4844	2.8843	11295.28	5141.903	1339.23	2063.718	3515.432	833	9602.627	397.3728	0.8591	117615.5	143515.5	10000	133515.5	14029		

TABLE 1

yield draws	crude oil price draws	corn acres draws	Mandate 10bg, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
140.9667	119.1603	86.6086		6.2965	2.5086	3.0063	11106.66	5135.765	1338.62	1723.68	3673.598	833	10068	283.3584	0.917	116756.6	143008	10351.36	132656.6	139675.9	2.9703	0
144.2828	140.1904	86.7141		6.9974	2.7299	3.3328	11553.59	4983.894	1323.536	1874.886	4136.272	833	11360.88	283.935	0.963	114173.9	141718.7	11644.82	130073.9	137970.3	3.2833	0
155.4112	117.0599	87.5478		6.2921	2.4822	2.9674	12127.87	5136.704	1338.713	2724.848	3692.606	833	10059.84	283.2704	0.8178	116969.2	143212.3	10343.11	132869.2	139882.8	2.9323	0
152.2423	77.0806	87.6268		4.7884	2.0534	2.1278	12116.96	5462.518	1371.074	2459.154	3479.878	942.3386	9444.612	555.3883	0.7637	121614	147514	10000	137514	144295	2.1227	1
143.6931	113.7101	87.6318		6.2153	2.4594	2.9146	11514.01	5153.352	1340.367	2226.405	3558.887	833	9691.485	308.5152	0.8115	117471.3	143371.3	10000	133371.3	140152.3	2.8829	1
149.9461	103.8798	86.8928		5.4541	2.2904	2.6846	12090.88	5318.288	1356.749	2126.375	4005.205	882.2668	11003.99	282.5266	0.9699	117846.5	145033	11286.52	133746.5	141399.9	2.654	0
136.8134	146.9344	88.1949		7.6995	2.8932	3.5051	10901.29	4831.772	1308.426	2006.618	3519.474	833	9624.902	375.0985	0.8785	114318.2	140218.2	10000	130218.2	136999.2	3.4615	1
140.7075	135.0393	86.7554		8.6106	3.1317	3.2951	10813.4	4634.364	1288.819	2394.829	3260.386	833	8882.798	1117.202	0.8186	115287.7	141187.7	10000	131187.7	137968.7	3.2836	1
149.4961	73.7067	87.1997		4.9388	2.1005	2.0724	11828.42	5429.927	1367.837	2289.794	3410.093	928.7645	9279.493	720.5072	0.8008	121878.1	147778.1	10000	137778.1	144559.1	2.0743	1
150.7039	90.689	87.7684		5.1754	2.1836	2.4502	11872.96	5378.656	1362.745	2308.443	3513.709	907.4103	9616.194	383.8062	0.8912	119929	145829	10000	135829	142610	2.4319	1
144.0819	110.7844	88.1576		6.1283	2.4426	2.858	11206.46	5172.193	1342.238	1921.977	3535.057	833	9649.533	350.467	0.848	117764.7	143664.7	10000	133664.7	140445.7	2.8291	1
148.6723	104.0308	87.2144		5.7056	2.3155	2.7215	11602.25	5263.781	1351.335	2102.965	3621.61	859.5646	9860.089	282.7308	0.8042	118409.1	144452	10142.82	134309.1	141187	2.693	0
135.1752	134.5529	86.4333		7.8886	2.9305	3.2908	10291.3	4790.795	1304.357	1559.711	3401.441	833	9269.485	730.515	0.8224	115387.2	141287.2	10000	131287.2	138068.2	3.2653	1
143.301	118.4673	87.7392		6.1002	2.4702	2.9499	11477.17	5178.295	1342.844	1567.772	4153.258	833	11405.85	283.0757	0.9595	116173.4	143762.3	11688.93	132073.4	139999.6	2.9109	0
145.4312	116.6619	87.101		6.1861	2.4637	2.9401	11441.27	5159.687	1340.996	1800.301	3905.29	833	10673.91	283.1379	0.8689	116708.5	143565.5	10957.04	132608.5	140038.5	2.9038	0
151.9867	109.8505	85.7286		5.6786	2.3799	2.8167	11672.29	5269.645	1351.917	1972.122	3814.595	862.007	10488.96	282.8795	0.9944	117486.7	144158.5	10771.84	133386.7	140691	2.784	0
142.5736	115.3948	87.5564		6.2538	2.4662	2.9438	11062.32	5145.019	1339.539	1732.444	3610.314	833	9817.275	283.2444	0.7904	117254.9	143255.5	10100.52	133154.9	140004.1	2.9101	0
158.5725	155.5131	86.2033		4.8304	2.9138	3.604	11969.26	5453.42	1370.171	1882.093	3923.024	938.5496	10788.32	284.6203	1	113111.4	140084.4	11072.94	129011.4	136520	3.5494	0
145.7426	94.2662	86.7669		5.6351	2.2893	2.5247	11471.01	5279.062	1352.853	2067.907	3503.255	865.9294	9508.541	491.459	0.7644	119511.7	145411.7	10000	135411.7	142192.7	2.5085	1
141.4585	109.9175	87.8481		6.2448	2.5051	2.8398	11250.7	5146.961	1339.732	2066.284	3462.721	833	9503.739	496.2615	0.946	117832.9	143732.9	10000	133732.9	140513.9	2.8165	1
144.3886	166.7663	85.3163		7.2228	3.0282	3.7727	11056.69	4935.068	1318.686	1597.867	3970.074	833	10917.71	284.9815	1	112132.7	139235.4	11202.69	128032.7	135629.3	3.7128	0
140.0267	106.1881	88.4699		5.6213	2.3344	2.7496	11364.16	5282.059	1353.15	1690.931	3768.845	867.1776	10351.56	282.7422	0.9627	117934.3	144468.6	10634.3	133834.3	141045.5	2.719	0
154.6577	139.7812	86.9903		3.9407	2.7395	3.347	12399.68	5646.181	1389.316	2022.16	3921.814	1018.835	10783.26	284.042	1	114477.3	141444.6	11067.3	130377.3	137882.1	3.2995	0
144.4682	124.9247	86.981		6.4119	2.5522	3.0707	11488.73	5110.753	1336.136	1691.225	4115.619	833	11294.93	283.3584	0.9446	115606	143084.3	11578.29	131506	139357.2	3.0288	0
149.079	156.3966	86.1215		6.4643	2.9137	3.6038	11552.09	5099.412	1335.009	1828.876	4053.795	833	11147.94	284.5694	1	112877.7	140210.2	11432.51	128777.7	136530.1	3.5475	0
148.653	118.6719	88.2598		6.1075	2.478	2.9614	11874.76	5176.702	1342.686	2055.081	4065.288	833	11168.73	283.1287	0.9691	116269	143620.8	11451.86	132169	139934.5	2.9229	0
145.1694	141.361	86.6204		6.5623	2.7272	3.329	11411.49	5078.174	1332.9	1402.171	4363.243	833	11998.92	283.8436	1	113776.2	141958.9	12282.76	129676.2	138005.1	3.2769	0
148.1897	117.0084	87.672		5.6707	2.4431	2.9099	11919.93	5271.34	1352.086	1737.154	4294.642	862.713	11810.27	282.9407	1	116118	144111.2	12093.21	132018	140218.4	2.8708	0
142.5043	107.1187	86.598		7.143	2.7231	3.3227	11201.38	4952.354	1320.403	1952.252	3741.367	833	10200.36	284.0629	0.8292	114988.1	141372.6	10484.43	130888.1	137979.6	3.2783	0
136.3782	135.1769	87.1369		7.1349	2.7145	2.742	10796.29	4954.116	1320.578	1991.684	3294.916	833	8966.299	1033.701	0.8011	118249.3	144149.3	10000	134149.3	140930.3	2.7401	0
140.9001	97.0079	87.3725		6.5875	2.5718	2.5776	10996.53	5072.709	1332.357	2049.433	3307.028	833	9027.482	972.5182	0.8487	119137.1	145037.1	10000	135037.1	141818.1	2.5772	1
156.6287	144.73	87.3357		5.9662	2.7709	3.3933	12351.74	5207.329	1345.728	2284.448	4276.187	836.0527	11759.52	284.0172	1	113592.5	141536.1	12043.53	129492.5	137659.3	3.3404	0
150.4556	154.3258	86.9414		6.6702	2.8689	3.538	12026.48	5054.784	1330.577	2041.796	4364.321	833	12001.89	284.3042	1	112669.1	140855.3	12286.19	128569.1	136900.4	3.4796	0
135.2295	188.2843	87.6311		8.7442	3.2152	4.0486	10869.53	4605.433	1285.946	1466.438	4276.712	833	11733.81	285.4726	0.9388	110144.8	138064.1	12019.29	126044.8	134195.1	3.976	0
136.2946	94.7115	85.302		7.9523	2.9253	2.524	10320.96	4777.004	1302.987	1949.801	3056.165	833	8267.452	1732.548	0.7199	119276.3	145176.3	10000	135176.3	141957.3	2.5517	0
155.2874	163.4074	86.5554		5.6529	3.0034	3.7361	12225.3	5275.213	1352.47	2491.433	3359.861	864.3261	10559.62	284.9513	1	112559.7	139304.3	10844.57	128459.7	135813.4	3.679	0
133.7786	135.0528	88.045		8.3806	3.0407	3.2973	10303.65	4684.202	1293.769	1736.084	3354.591	833	9063.154	936.8465	0.7035	115311.8	141211.8	10000	131211.8	137992.8	3.2791	0
145.0684	120.8601	87.2123		6.1568	2.4846	2.9712	11460	5166.027	1341.626	1315.369	4401.977	833	12087.04	283.0442	0.9559	115611	143881.1	12370.08	131511	139899.1	2.9293	0
148.2882	179.154	88.0096		5.5181	3.1647	3.974	11843.83	5304.421	1355.372	2095.039	3810.51	876.4915	10478.9	285.5019	1	111350.6	138015	10764.41	127250.6	134550	3.9109	0
149.6909	113.4868	86.1233		5.1895	2.4239	2.8814	11901.34	5375.61	1362.442	1985.491	3869.652	906.1416	10641.55	283.009	1	117041.6	143866.2	10924.56	132941.6	140349.6	2.8467	0
155.9518	206.7365	88.6358		4.5209	3.4079	4.3327	12600.42	5520.462	1376.829	2370.389	3964.269	966.4723	10901.74	286.2428	1	109178.4	136266.4	11187.98	125078.4	132665	4.2568	0
137.6392	151.3271	86.0675		8.1793	3.0004	3.5758	10587.2	4727.821	1298.102	1825.655	3500.626	833	9509.342	490.6581	0.776	113919.1	139819.1	10000	129819.1	136600.1	3.5347	1
153.927	103.7162	86.62		5.4653	2.2901	2.6843	12252.3	5315.861	1356.508	2325.265	3971.41	881.256	10908.36	282.5357	0.9636	117912.1	145003	11190.9	133812.1	141400.6	2.6538	0
144.9008	93.9822	86.7499		5.4587	2.2514	2.5193	11399.14	5317.279	1356.649	1930.144	3511.223	881.8469	9575.129	424.8706	0.8328	119553.3	145453.3	10000	135453.3	142234.3	2.5009	1
150.363	84.8966	87.2332		5.3729	2.2285	2.3236	11993.14	5335.871	1358.495	2575.681	3431.502	889.5901	9361.561	638.4387	0.8391	120554.5	146454.5	10000	136454.5	143235.5	2.3172	1

TABLE 1

yield draws	crude oil price draws	corn acres draws	Mandate 10bg.Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
148.4016	99.4032	87.166		5.6084	2.3204	2.6313	11698.14	5284.841	1353.427	2294.765	3494.769	868.3361	9588.499	411.5007	0.939	118959.3	144859.3	10000	134859.3	141640.3	2.6099	1
143.0579	175.0736	87.5418		7.6955	3.0662	3.829	11644.96	4832.638	1308.513	1717.948	4550.858	833	12514.86	284.8694	1	110798.3	139498	12799.73	126698.3	135377.8	3.759	0
159.1075	112.5785	87.0529		5.1968	2.408	2.858	12306.41	5374.026	1362.285	2321.71	3940.91	905.4819	10837.5	282.9343	1	117036.3	144056.8	11120.44	132936.3	140477.1	2.8233	0
142.0361	145.5876	87.6589		7.3466	2.8267	3.4755	11029.28	4908.236	1316.021	1951.146	3618.878	833	9937.541	284.4461	0.9577	114348.6	140470.6	10221.99	130248.6	137180.2	3.4283	0
153.8639	118.6565	87.7933		5.695	2.4805	2.965	12476.35	5266.087	1351.564	2578.098	4018.076	860.5251	11049.71	283.1505	1	116328.5	143561.3	11332.86	132228.5	139913.3	2.9268	0
147.4593	162.7529	85.4749		5.1629	2.9939	3.7221	11410.7	5381.37	1363.014	1480.818	3874.957	908.5407	10656.13	284.9057	1	112570.9	139411.9	10941.04	128470.9	135890	3.665	0
152.1354	83.4632	87.8546		4.9375	2.1043	2.2937	12268.16	5430.209	1367.865	2630.599	3508.608	928.8819	9564.403	435.5968	0.827	120752.5	146652.5	10000	136652.5	143433.5	2.2808	1
153.6468	106.7113	87.8588		5.7038	2.3329	2.7474	12083.4	5264.171	1351.374	2272.801	3933.325	859.7271	10764.26	282.893	0.8907	117672.5	144619.5	11046.95	133572.5	141063.4	2.7157	0
144.8288	123.6417	88.057		5.8257	2.5392	3.0516	11796.01	5237.77	1348.751	1894.005	4064.751	848.731	11178.07	283.3296	1	115784.3	143145.7	11461.4	131684.3	139456.3	3.0106	0
139.3582	123.3361	87.48		8.2784	3.018	3.0862	10661.64	4706.343	1295.969	2163.531	3260.8	833	8828.562	1171.438	0.7311	116389.5	142289.5	10000	132289.5	139070.5	3.0814	1
147.6673	131.2784	87.0398		5.9964	2.6339	3.1913	11577.98	5200.779	1345.077	1776.411	4020.388	833.3246	11056.07	283.6572	1	115124.2	142363.9	11339.73	131024.2	138713.6	3.1469	0
146.9436	123.8812	86.3066		6.793	2.6151	3.1042	11183.15	5028.187	1327.935	2045.659	3546.365	833	9638.013	361.9866	0.7825	116452.4	142352.4	10000	132352.4	139133.4	3.0699	1
146.9777	88.3066	87.7062		5.529	2.2664	2.3976	11707.89	5302.052	1355.136	2325.48	3447.713	875.5045	9385.311	614.6895	0.8062	120165	146065	10000	136065	142846	2.3886	1
148.3414	120.1707	87.3938		6.2473	2.5192	3.022	11771.4	5146.427	1339.679	2351.544	3698.75	833	10162.27	283.3829	0.9705	116611.3	142956.9	10445.65	132511.3	139594.5	2.9853	0
146.1599	120.1588	87.8738		6.2971	2.4974	2.99	11434.26	5135.632	1338.607	1655.098	4069.924	833	11130.28	283.1971	0.8786	116142.9	143456.3	11413.47	132042.9	139782.3	2.9508	0
145.5947	94.4112	87.6058		5.7331	2.3189	2.5273	11555.16	5257.855	1350.746	2207.952	3479.506	857.0967	9454.161	545.8391	0.7793	119487.4	145387.4	10000	135387.4	142168.4	2.5129	1
154.5531	104.4566	87.552		4.9288	2.2937	2.6895	12252.03	5432.09	1368.052	2039.264	4080.96	929.6654	11222.64	282.5145	1	117675.7	145080.8	11505.16	133575.7	141377.3	2.6581	0
134.5151	122.2321	87.1948		8.2525	3.0008	3.0659	10357.32	4711.957	1296.526	1837.717	3276.115	833	8855.373	1164.628	0.6811	116499	142399	10000	132399	139180	3.0613	1
144.045	147.5238	88.3088		7.4953	2.8495	3.509	11291.3	4876.012	1312.821	2256.026	3611.44	833	9898.064	284.5282	0.9178	114196.2	140278.8	10182.59	130096.2	137001	3.4611	0
148.745	111.5613	86.7612		5.7401	2.3705	2.8028	11950.52	5256.31	1350.593	1721.727	4363.434	856.4533	11986.35	282.6844	0.9661	116568.8	144737.8	12269.04	132468.8	140788.4	2.7662	0
144.3622	162.4365	86.9648		7.717	2.9709	3.6882	11575.55	4827.992	1308.051	2065.545	4138.965	833	11380.3	284.7249	0.9924	112279.6	139844.6	11665.02	128179.6	136089.6	3.6284	0
159.4145	144.7449	86.4318		4.4161	2.919	3.4243	12601.45	5543.187	1379.086	2324.413	3976.826	975.9376	10936.28	284.1957	1	113967.5	141087.9	11220.47	129867.5	137476.1	3.374	0
150.4417	148.0823	87.593		5.4746	2.8292	3.4793	11709.17	5313.828	1356.306	1782.567	3974.064	880.4095	10928.68	284.3203	1	113680.8	140793.8	11213	129580.8	137184.3	3.4275	0
148.1718	103.0775	88.916		5.5642	2.2888	2.6822	11822.21	5294.426	1354.379	2039.789	3859.288	872.3282	10549.28	282.5686	0.8707	118161.2	144893.1	10831.85	134061.2	141406.3	2.6528	0
145.7983	99.7314	87.3451		5.4487	2.2527	2.629	11286.85	5319.439	1356.863	1638.85	3686.952	882.7462	10067.87	282.4976	0.8539	118763.7	145014.1	10350.37	134663.7	141682.3	2.6021	0
156.4633	116.2733	88.0869		4.8992	2.4325	2.8943	12411.79	5438.51	1368.69	1951.83	4318.419	932.3394	11875.67	282.8987	1	116157.8	144216.4	12158.57	132057.8	140302.5	2.8553	0
140.8108	152.7583	87.6876		5.4888	2.8838	3.5597	11305.75	5310.753	1356	1431.126	3926.743	879.1285	10798.55	284.5192	1	113339.2	140322.3	11083.07	129239.2	136754.6	3.5063	0
154.3805	137.7229	86.9288		5.3754	2.7029	3.2931	12321.91	5335.333	1358.442	2224.07	4112.703	889.3663	11309.91	283.853	1	114417.8	141911.6	11593.76	130317.8	138179.5	3.2449	0
143.4421	91.8093	88.4149		5.4595	2.2366	2.4734	11569.13	5317.106	1356.631	2088.817	3522.798	881.7745	9543.454	456.5465	0.7387	117991.7	145691.7	10000	135691.7	142427.2	2.4571	1
140.959	97.3698	87.7917		6.3276	2.4885	2.5865	11051.64	5129.012	1337.949	1967.916	3381.76	833	9201.589	798.0148	0.7995	119123.4	145023.4	10000	135023.4	141804.4	2.5797	1
142.2839	115.8646	86.5683		6.9581	2.6595	2.9524	11223.17	4992.418	1324.382	2228.522	3442.851	833	9351.09	648.9103	0.7741	117204	143104	10000	133104	139885	2.9319	1
155.6562	87.9122	88.6411		4.3197	2.0617	2.3474	12267.3	5564.063	1381.16	1987.745	4147.7	984.6321	11406.18	281.7328	1	119368.8	146956.7	11687.91	135268.8	143194.3	2.3247	0
136.7351	173.4748	87.1807		7.0057	3.1094	3.8924	10960.43	4982.094	1323.357	1621.208	3798.774	833	10446.63	285.3219	1	111804.3	138436.2	10731.95	127704.3	134981.6	3.8317	0
150.5239	118.4612	87.6768		5.7374	2.4729	2.9538	12062.06	5256.889	1350.65	2092.505	4103.325	856.6943	11284.15	283.9983	1	116233.3	143700.5	11567.24	132133.3	139977	2.9151	0
148.5103	122.9112	87.162		6.7763	2.6259	3.086	11641.05	5031.799	1328.294	2432.629	3513.333	833	9593.089	406.9107	0.8527	116540.4	142440.4	10000	132440.4	139221.4	3.0537	1
154.6708	95.9447	87.1649		4.7159	2.1765	2.5168	12385.05	5478.23	1372.635	2067.724	4115.577	948.8829	11317.84	282.1189	1	118529	146029	11599.96	134429	142295	2.4897	0
150.0565	98.1469	86.754		5.8539	2.3463	2.6049	11683.42	5231.653	1348.144	2347.698	3507.739	846.1835	9503.225	496.7746	0.7395	119083.4	144983.4	10000	134983.4	141764.4	2.5871	1
140.8698	138.5984	86.4034		7.2703	2.7512	3.3642	10751.65	4924.766	1317.663	1688.297	3585.925	833	9754.889	284.2157	0.7962	115059.7	140998.8	10039.1	130959.7	137767.2	3.3205	0
151.8097	102.6666	86.9916		4.9711	2.2751	2.662	12237.36	5422.936	1367.143	2134.912	3984.516	925.8527	10957.42	282.4806	1	117997.5	145137.4	11239.9	133897.5	141519.3	2.6321	0
144.4778	120.4667	87.3142		5.8201	2.5188	3.0214	11469.38	5238.98	1348.872	1861.594	3768.695	849.2353	10363.91	283.3578	1	116481.6	143028.8	10647.27	132381.6	139601.5	2.984	0
152.3304	120.7045	86.2529		5.3872	2.5202	3.0235	12085.72	5332.766	1358.187	2316.427	3788.042	888.297	10417.12	283.3562	1	116435.5	143035.9	10700.47	132335.5	139591.5	2.9858	0
145.754	115.9031	86.9978		6.0963	2.4438	2.9109	11317.74	5179.14	1342.928	1488.388	4072.283	833	11144.25	283.0184	0.8902	116553.1	143880.4	11427.27	132453.1	140202.8	2.8738	0
148.1952	108.6659	87.939		5.6802	2.3465	2.7674	11813.51	5269.294	1351.883	1794.519	4133.955	861.8608	11349.43	282.6751	0.9526	117178.3	144710.4	11632.1	133078.3	140966	2.7336	0
146.1434	84.7939	89.2793		5.8284	2.3573	2.3195	11499.06	5237.18	1348.693	2326.09	3336.613	848.4853	9105.111	894.8893	0.8432	120527.4	146427.4	10000	136427.4	143208.4	2.3221	1
142.6851	131.6113	86.1888		5.9563	2.6572	3.2256	10973.84	5209.475	1345.941	1455.495	3723.985	836.9465	10240.96	283.8367	1	115477.6	141902.4	10524.8	131377.6	138514.		

TABLE 1

yield draws	crude oil price draws	corn acres draws	Mandate 10bg, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
143.7125	106.7394	87.7257		6.3449	2.4992	2.777	11268.95	5125.275	1337.578	2111.374	3459.728	833	9432.219	567.7811	0.8287	118153.4	144053.4	10000	134053.4	140834.4	2.7577	1
149.0059	123.9172	87.5345		6.5476	2.5579	3.0791	11420.64	5081.362	1333.217	1918.967	3852.098	833	10507.66	283.4716	0.8371	116080.2	142771.3	10791.14	131980.2	139297.7	3.0397	0
150.4948	80.935	88.9183		4.569	2.0045	2.3387	12199.83	5510.053	1375.795	2401.691	3548.159	962.137	9686.256	313.7441	0.8496	121068.9	146968.9	10000	136968.9	143749.9	2.2228	1
151.7411	153.3175	87.3192		6.3246	2.8731	3.544	11557.03	5129.672	1338.015	1695.989	4158.358	833	11435.49	284.3958	1	13006.7	140626.6	11719.88	128906.7	136854	3.4881	0
155.1523	99.1933	87.5703		5.4101	2.2452	2.6179	12312.61	5327.801	1357.694	2652.804	3686.082	886.2292	10075.33	282.475	0.8698	118818.1	145075.9	10357.8	134718.1	141741.7	2.5912	0
158.8835	117.1961	87.2107		4.9318	2.4431	2.91	12469.81	5431.434	1367.987	2006.055	4332.94	929.3921	11915.6	282.9289	1	116048.1	144146.7	12198.53	131948.1	140220	2.8705	0
157.3741	104.1532	86.4554		4.6981	2.2806	2.6702	12573.55	5482.079	1373.017	2122.313	4243.657	950.4861	11670.06	282.4249	1	117480.8	145333.3	11952.49	133380.8	141485.8	2.6382	0
150.535	167.0959	87.0963		4.8428	3.055	3.8122	11907.44	5450.721	1369.902	2084.901	3662.486	937.4254	10071.84	285.196	1	112472.7	138729.7	10357.04	128372.7	135395.8	3.7557	0
143.5396	108.5508	88.1542		5.8276	2.3649	2.7945	11388.04	5237.35	1348.71	1751.451	3799.976	848.5562	10392.04	282.8398	0.8786	117668.7	144243.6	10674.88	133568.7	140807.3	2.7627	0
157.309	108.8591	87.6226		5.5844	2.3437	2.7633	12647.36	5290.041	1353.943	2510.002	4220.869	870.502	11604.28	282.6384	0.9888	117031.2	144818.1	11886.92	132931.2	140991.7	2.7289	0
154.6324	121.9635	86.9154		4.7405	2.5051	3.0014	12352.47	5472.893	1372.105	1876.391	4282.426	946.6598	11776.67	283.1471	1	115655.9	143615.7	12059.82	131555.9	139733.6	2.9597	0
135.3298	115.0106	87.1342		7.7809	2.8876	2.9318	10609.12	4814.136	1306.675	1982.805	3270.503	833	8879.155	1120.846	0.7681	117221.6	143121.6	10000	133121.6	139902.6	2.9287	1
136.6864	122.4156	85.7099		6.9156	2.6482	3.0763	10822.55	5001.628	1325.297	1750.162	3510.465	833	9536.686	463.3142	0.7769	116580.8	142480.8	10000	132480.8	139261.8	3.0463	1
139.9296	153.5836	85.0121		7.8206	2.9166	3.6081	10911.15	4805.535	1305.821	1940.521	3624.269	833	9889.423	284.756	0.8422	113675.5	139749.6	10174.18	129575.5	136474.6	3.5577	0
154.4185	92.7868	87.5209		4.5289	2.1456	2.4712	12336.82	5518.73	1376.657	2217.372	3856.313	965.7512	10604.87	282.0858	1	119246	146032.9	10886.96	135146	142528.4	2.4469	0
147.0772	140.4612	86.9812		6.8961	2.7141	3.3096	11860.03	5005.842	1325.716	1883.996	4409.482	833	12119.21	283.7854	0.9798	113799.5	142102.5	12403	129699.5	138110	3.2576	0
153.761	87.7049	87.224		5.686	2.3156	2.3838	11861.17	5268.033	1351.757	2578.64	3399.408	861.3356	9271.287	728.7132	0.8345	120216.7	146116.7	10000	136116.7	142897.7	2.3791	1
152.4562	141.6147	86.5421		4.9669	2.7828	3.4107	12029.47	5423.836	1367.232	2314.344	3595.827	926.2276	9888.525	284.3045	1	114725	140797.9	10172.83	130625	137523.3	3.3653	0
148.9572	141.4344	87.1786		6.1198	2.7494	3.3617	11757.44	5174.041	1342.422	1954.323	4051.655	833	11142.06	284.028	1	114164.6	141490.7	11426.08	130064.6	137812.6	3.3122	0
152.2426	107.8029	88.383		5.6392	2.3272	2.739	12276.71	5278.17	1352.764	2099.433	4278.79	865.5578	11736.42	282.5703	0.9334	117072.5	144991.4	12018.99	132972.5	141122.5	2.7049	0
140.0288	166.5993	88.1936		7.0233	3.0037	3.7368	11464	4978.296	1322.98	1659.159	4268.568	833	11738.57	284.781	1	111789.7	139713.1	12023.35	127689.7	135847.2	3.6737	0
149.2156	83.924	87.5625		5.4994	2.2514	2.3019	12033.38	5308.466	1355.773	2666.806	3422.157	878.176	9288.201	711.7986	0.7641	120656.6	146556.6	10000	136556.6	143337.6	2.2984	1
149.4844	92.346	87.1576		5.059	2.1493	2.4765	12035.78	5403.878	1365.25	2266.088	3680.651	917.915	10069.4	282.1496	0.8848	119574.2	145825.7	10351.55	135474.2	142493.6	2.4533	0
153.6509	107.9645	87.3869		5.4435	2.3354	2.7511	12215.04	5320.577	1356.976	2098.791	4153.478	883.2201	11422.04	282.6309	0.9998	117216.6	144821.3	11704.67	133116.6	141053.6	2.7175	0
145.5914	110.4677	86.1811		5.6632	2.3689	2.8004	11435.45	5294.907	1354.427	1367.422	4144.163	872.5288	11396.41	282.7436	0.9997	116972	144551.1	11679.16	132872	140791.6	2.7656	0
148.9872	133.842	87.3549		5.8791	2.6699	3.2443	11703.98	5226.189	1347.601	1951.119	3933.162	843.9078	10816.2	283.8064	1	115000.6	142000.6	11100.01	130900.6	138427.6	3.1994	0
149.0889	117.4921	86.678		5.95	2.4482	2.9175	11956.62	5210.824	1346.075	1849.452	4310.76	837.5081	11850.91	282.9529	0.9874	116051	144084.8	12133.86	131951	140178.9	2.878	0
143.3166	93.7818	86.6024		6.4524	2.5095	2.511	11886.79	5101.976	1335.264	2165.174	3349.374	833	9061.11	938.8903	0.7206	119498.5	145398.5	10000	135398.5	142179.5	2.5109	1
153.5978	107.5188	89.2186		5.2531	2.3359	2.7518	12607.72	5361.836	1361.074	2532.644	4049.578	900.4047	11136.83	282.663	1	117402.2	144721.7	11419.5	133302.2	141045.8	2.7189	0
147.434	114.876	88.3614		6.0772	2.4408	2.9064	11588.27	5183.263	1343.338	1925.256	3901.416	833	10681.82	283.0608	0.8988	116882.4	143747.3	10964.89	132782.4	140217.6	2.8709	0
136.9531	130.3195	85.4618		7.1258	2.7371	3.2193	10602.73	4956.079	1320.773	1601.674	3489.2	833	9552.228	447.772	0.897	115823.3	141723.3	10000	131723.3	138504.3	3.1853	1
158.7772	122.9235	87.5302		4.343	2.5205	3.0241	12476.63	5559.007	1380.658	1929.286	4223.177	982.5265	11613.74	283.2166	1	115642.9	143439.9	11896.96	131542.9	139610.3	2.9824	0
146.3576	64.2017	87.6352		4.588	2.0063	1.8477	11802.86	5505.923	1375.385	2196.367	3362.771	960.417	9166.75	833.25	0.8268	123054.8	148954.8	10000	138954.8	145735.8	1.8584	1
148.7902	145.5849	88.1225		6.8225	2.749	3.3612	11871.55	5021.795	1327.3	1564.532	4722.921	833	12988.02	283.7851	0.9999	112957.4	142129.2	13271.81	128857.4	137857	3.3041	0
154.2606	79.5634	87.3681		5.4264	2.2389	2.2046	11744.58	5324.273	1357.343	2403.902	3372.303	884.7599	9184.265	815.7353	0.813	121155.1	147055.1	10000	137055.1	143836.1	2.2069	1
152.4932	97.9464	86.9789		5.1821	2.2044	2.5579	12007.22	5377.217	1362.602	1845.708	4112.789	906.8107	11292.25	282.2133	0.954	118327.8	145802.3	11574.46	134227.8	142076.5	2.5298	0
148.4569	152.4621	89.0876		6.6128	2.8644	3.5313	11926.54	5067.217	1331.812	2142.079	4150.429	833	11413.68	284.3704	1	113088.5	140686.5	11698.05	128988.5	136920.9	3.4758	0
148.572	105.8182	86.9532		5.5311	2.3295	2.7423	11752.48	5301.603	1355.092	2053.596	3764.871	875.3178	10350.95	282.7258	0.9899	117973.3	144507	10633.68	133873.3	141084	2.7119	0
143.6621	146.9275	86.6371		7.226	2.7906	3.4224	11304.94	4934.368	1318.617	1461.618	4355.337	833	11958.52	284.055	0.9551	113308.6	141451.2	12242.58	129208.6	137510.3	3.3677	0
156.185	116.2812	86.284		5.9443	2.4441	2.9114	12194.91	5212.063	1346.198	2268.566	4128.063	838.0243	11347.86	282.9964	0.9853	116415.9	143946.8	11630.86	132315.9	140202.8	2.8736	0
146.5356	100.1462	86.1863		5.8394	2.3624	2.6459	11398.96	5234.807	1348.457	2077.603	3488.595	847.4972	9525.835	474.1655	0.8532	118869.5	144769.5	10000	134769.5	141550.5	2.6263	1
141.891	105.9074	86.2641		5.8165	2.3432	2.7624	11004	5239.757	1348.949	1580.218	3583.518	849.5868	9740.801	282.8371	0.7851	118270.8	144194.5	10023.64	134170.8	140967.9	2.7332	0
149.9015	184.0173	86.766		6.57	3.2175	4.0518	11758.96	5076.505	1332.734	2372.971	3741.75	833	10289.81	285.7079	1	111060.5	137536	10575.52	126960.5	134131.7	3.9876	0
154.2721	126.0528	88.2348		5.5391	2.6554	3.0903	12375.43	5299.86	1354.918	2273.153	4170.908	874.5915	11470	283.3809	1	115387.2	143040.6	11753.38	131287.2	139257.2	3.0471	0
158.9922	129.1164	87.3425		4.4874	2.6112	3.1578	12586.46	5527.731	1377.551	2335.807	3973.875	969.5	10928.16	283.5979	1	115385.9	142497.7	1121				

TABLE 1

yield draws	crude oil price draws	corn acres draws	Mandate 10bg, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
154.8984	95.2847	86.2555		5.2103	2.1911	2.5381	11940.06	5371.103	1361.995	2223.598	3677.104	904.2645	10057.19	282.2914	0.8806	119254.3	145493.8	10339.48	135154.3	142165.6	2.5135	0
139.2638	117.5805	87.4241		6.7818	2.6346	2.9856	10971.65	5030.609	1328.176	1925.038	3452.829	833	9443.472	556.5282	0.88	117045.3	142945.3	10000	132945.3	139726.3	2.9611	1
146.7428	123.3769	87.2645		6.3377	2.5325	3.0417	11698.57	5126.829	1337.732	1870.771	4128.234	833	11331.3	283.2892	0.9479	115735.8	143250.4	11614.59	131635.8	139511.7	3.0004	0
144.4036	89.3658	89.3341		5.1635	2.167	2.422	11794.42	5381.235	1363.001	2212.973	3526.722	908.4844	9611.331	388.6194	0.8232	120078.3	145978.3	10000	135978.3	142759.3	2.4045	1
151.7669	111.2373	86.9153		5.5553	2.382	2.8198	11202.66	5296.342	1354.569	2088.281	4088.345	873.1264	11242.95	282.8036	1	116971	144396.8	11525.75	132871	140686.6	2.7848	0
152.0783	131.6575	86.5005		6.188	2.6227	3.1747	11966.08	5159.268	1340.954	1969.883	4260.98	833	11717.7	283.5382	1	114776.9	142678.2	12001.23	130679.8	138815	3.1283	0
143.2099	98.0912	88.553		6.3735	2.498	2.6013	11267.27	5119.074	1336.962	2189.914	3386.322	833	9202.626	797.374	0.7818	119044.7	144944.7	10000	134944.7	141725.7	2.5942	1
153.5285	87.2295	87.2057		4.9001	2.1025	2.3766	12162.45	5438.315	1368.67	2482.028	3539.175	932.2583	9677.18	322.8201	0.8757	120332.7	146232.7	10000	136232.7	143013.7	2.3578	1
149.8291	103.5354	88.3303		5.6511	2.3105	2.7143	11978.56	5275.586	1352.507	2506.234	3577.749	864.4816	9772.233	282.7234	0.8581	118506.2	144461.2	10054.96	134406.2	141224.5	2.6862	0
146.4457	122.0222	85.5619		6.415	2.5447	3.0596	11388.02	5110.093	1336.07	2038.551	3668.304	833	10057.11	283.4811	0.9239	116480.8	142721.4	10340.59	132380.8	139392.7	3.0223	0
138.0678	117.9764	87.3699		6.2916	2.4912	2.9807	10892.59	5136.825	1338.725	1455.457	3726.583	833	10179.74	283.2868	0.8597	116819.5	143182.5	10463.03	132719.5	139814.4	2.9449	0
141.1897	131.5371	87.5603		6.8887	2.6626	3.2335	10992.16	5007.441	1325.875	1774.186	3649.659	833	9977.172	283.8879	0.8722	115608.8	141769.8	10261.06	131508.8	138466.8	3.1922	0
154.0714	126.7734	87.14		5.8019	2.5653	3.0901	12260.1	5242.915	1349.262	2162.645	4252.399	850.874	11694.1	283.3534	1	115240.6	143118.1	11977.45	131140.6	139262.5	3.0462	0
151.1559	132.3461	86.9539		6.4983	2.6305	3.1864	12153.44	5092.043	1334.277	2228.353	4263.762	833	11724.94	283.5631	0.9978	114710.5	142619	12008.5	130610.5	138753.5	3.1396	0
153.6761	128.1562	85.2238		5.6763	2.598	3.1382	11813.9	5270.135	1351.966	1926.698	4000.895	862.2113	11002.46	283.5449	1	115440.7	142626.7	11286.01	131340.7	138993.7	3.0955	0
149.4623	153.4808	87.489		5.8766	2.8657	3.5332	12101.67	5226.73	1347.655	1996.631	4284.526	844.1331	11782.45	284.3238	1	112837.7	140804.4	12066.77	128737.7	136920.2	3.476	0
142.4909	105.9795	87.9861		6.1693	2.4386	2.7629	11254.56	5163.324	1341.357	2074.039	3510.842	833	9531.977	468.3232	0.7681	118247.9	144147.9	10000	134147.9	140928.9	2.7404	1
157.9403	109.4858	87.1903		4.3214	2.3729	2.8063	12320.54	5563.7	1381.124	2356.9	3852.332	984.4809	10593.91	282.8444	1	117472.5	144249.3	10876.76	133372.5	140748	2.7736	0
143.2127	123.9245	86.0319		6.255	2.592	3.1055	11406.49	5144.744	1339.512	2165.447	3521.783	833	9684.905	315.095	1	116454.9	142354.9	10000	132354.9	139135.9	3.0694	1
148.5331	135.1271	86.3941		5.2228	2.6876	3.2703	11900.39	5368.398	1361.726	1971.69	3893.434	903.1379	10706.94	283.8791	1	114934	141824.8	10990.82	130834	138286.9	3.2252	0
151.2207	103.6307	88.1174		4.3614	2.2969	2.6942	12166.79	5555.038	1380.263	2024.445	3824.167	980.8731	10516.46	282.5991	1	118119.5	144818.5	10799.06	134019.5	141342.3	2.6645	0
155.3717	198.1257	86.6691		5.6237	3.318	4.2002	12088.11	5281.537	1353.099	2064.091	4120.421	866.9602	11331.16	285.8746	1	109603	137120	11617.04	125503	133380.5	4.1255	0
148.5296	118.1051	85.6951		5.7688	2.4769	2.9597	11452.41	5250.088	1349.975	1633.013	3963.477	853.8617	10899.56	283.156	1	116455.7	143538.5	11182.72	132355.7	139938.7	2.9221	0
145.0968	111.4594	87.0695		6.2894	2.509	2.87	11500.18	5137.293	1338.772	2310.952	3478.168	833	9535.857	464.1429	0.924	117678.6	143578.6	10000	13578.6	140359.6	2.8448	1
145.3517	108.8629	87.7116		5.774	2.3552	2.7802	11897.88	5248.973	1349.864	2005.8	4037.842	853.397	11055.97	282.7354	0.8998	117304.9	144543.6	11338.7	133204.9	140893.7	2.7469	0
148.7457	140.17	86.9035		6.9551	2.7126	3.3075	11689.94	4993.064	1324.446	1750.386	4387.043	833	12045.32	283.7902	0.9546	113859.3	142088.4	12329.11	129759.3	138119.7	3.2559	0
141.3524	144.4333	87.8226		7.1267	2.7849	3.414	10886.14	4955.871	1320.752	1345.582	4028.93	833	11074.72	284.1541	0.9835	113931.5	141190.3	11358.87	129831.5	137533.9	3.3634	0
147.7048	75.3114	87.7261		5.1893	2.1666	2.1086	11585.17	5375.652	1362.446	2152.437	3386.475	906.1589	1198.49	801.5103	0.7749	121669.4	147569.4	10000	137569.4	144350.4	2.1126	1
149.0794	104.342	87.282		5.572	2.3062	2.7079	11642.78	5292.723	1354.21	1882.726	3839.502	871.6192	10528.54	282.6289	0.9278	118038.5	144749.7	10811.17	133938.5	141269.6	2.6779	0
151.1195	136.8633	86.2771		6.3332	2.6822	3.2625	11714.59	5127.816	1337.831	1739.743	4274.205	833	11754.07	283.8127	1	114288.2	142226	12037.79	130188.2	138351	3.2134	0
145.7988	112.8556	88.8107		6.7556	2.6227	2.8951	11557.61	5036.282	1328.739	2536.448	3421.146	833	9347.339	652.661	0.8631	117508.3	143408.3	10000	133408.3	140189.3	2.8761	1
147.9378	156.1135	85.6476		7.4725	2.9153	3.6063	11552.84	4880.967	1313.313	2133.635	3989.929	833	10971.85	284.5997	0.9975	112979.5	140136	11256.45	128879.5	136512.5	3.5508	0
152.066	120.4095	86.7754		5.3731	2.4924	2.9826	11849.92	5335.833	1358.491	1685.149	4178.876	889.5743	11491.91	283.1387	1	115943.1	143618.1	11775.05	131843.1	139827.7	2.9424	0
141.2917	154.7686	87.9181		7.7819	2.9088	3.5967	11072.31	4813.92	1306.653	1808.086	3908.649	833	10672.79	284.62	0.8532	113225.5	140082.9	10957.41	129125.5	136555.7	3.5428	0
139.3998	125.9151	88.732		6.988	2.5918	3.1291	11185.44	5048.763	1329.979	1860.369	3711.326	833	10097.56	283.6347	0.7984	116084.7	142365.9	10381.2	131984.7	139024.3	3.0899	0
145.7518	102.8572	87.1974		6.2343	2.4729	2.6994	11421.08	5149.226	1339.957	2260.732	3436.165	833	9381.035	618.9647	0.8504	118556.7	144456.7	10000	134456.7	141237.7	2.6837	1
136.2512	86.0783	88.656		6.2644	2.4614	2.3462	11001.45	5142.711	1339.31	1987.283	3297.147	833	8937.195	1062.805	0.7463	120353.1	146253.1	10000	136253.1	143034.1	2.3541	1
143.6201	119.6839	88.2832		6.6863	2.5964	3.0262	11804.01	5051.306	1330.231	2678.147	3509.328	833	9571.529	428.4711	0.8353	116854.6	142754.6	10000	132754.6	139535.6	2.9961	1
150.3195	175.7096	86.8547		5.7622	3.0529	3.8094	12053.57	5251.516	1350.117	1397.178	4798.303	854.4562	13195.34	284.7255	1	110459.8	139839.9	13480.06	126359.8	135500.6	3.7364	0
144.2921	103.4627	88.9321		5.3992	2.2658	2.6484	11683.13	5330.174	1357.929	1352.343	4353.463	887.2175	11951.72	282.3473	0.952	117409.6	145543.7	12234.07	133309.6	141605.6	2.6162	0
148.8587	149.5916	86.9268		7.3337	2.8393	3.4942	11485.72	4911.024	1316.298	1955.266	4068.132	833	11180.52	284.3196	0.9785	113437.1	140802	11464.84	129337.1	137111.4	3.4409	0
152.179	97.4353	88.0261		5.156	2.2033	2.5563	12258.77	5382.87	1363.163	2203.14	3998.434	909.1654	10984.4	282.2400	0.9676	118541.2	145707.9	11266.64	134441.2	142081.1	2.529	0
137.5671	149.3227	86.7118		8.0339	2.9852	3.543	10785.34	4759.316	1301.23	2016.04	3473.753	833	9495.619	504.3811	0.871	114091.2	139991.2	10000	129991.2	136772.2	3.5031	1
150.5352	141.875	85.8684		4.3382	2.7493	3.3614	11857.12	5560.06	1380.762	1405.134	4126.201	882.9648	11347.06	284.0007	1	114031.5	141562.5	11631.06	129931.5	137818.5	3.3111	0
158.9467	104.9618	86.6165		4.6201	2.2856	2.6776	12915.87	5498.987	1374.696	2336.73	4345.928	957.5281	11951.31	282.4119	1	117255.1	145388.8	12233.72	133155.1	1		

TABLE 1

yield draws	crude oil price draws	corn acres draws	Mandate 10bg, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
145.383	80.2104	88.4522		5.4829	2.2625	2.2189	11850.71	5312.048	1356.129	2547.737	3353.124	879.6681	9156.955	843.0452	0.855	121073.9	146973.9	10000	136973.9	143754.9	2.2218	1
152.1082	152.7	86.7525		7.2898	2.8573	3.5208	11930.8	4920.553	1317.245	2172.962	4285.04	833	11783.11	284.2964	0.9964	112902.7	140870.1	12067.41	128802.7	136985.6	3.464	0
147.2674	136.8178	86.1531		6.4366	2.7183	3.3157	11839.82	5105.393	1335.603	2435.321	3728.503	833	10253.39	284.0399	1	114991	141428.4	10537.43	130891	138036.4	3.2712	0
146.1409	160.4105	87.9153		5.9303	2.9644	3.6786	11830.71	5215.106	1346.65	2085.484	3942.325	839.2915	10841.39	284.7807	1	112681.4	139707.6	11126.18	128581.4	136126	3.6217	0
154.479	132.8919	87.4505		6.7616	2.6449	3.2075	12053.53	5034.989	1328.611	2300.666	4154.266	833	11391.84	283.6517	0.9281	114817.4	142392.9	11675.49	130717.4	138634.6	3.1614	0
146.0266	109.4933	86.8957		5.8335	2.3888	2.8297	11517.09	5236.074	1348.583	2096.934	3585.472	848.0248	9842.024	282.9803	0.9491	117845.7	143870.7	10125	133745.7	140611.4	2.7986	0
141.7798	147.5051	88.3752		6.6363	2.8039	3.4421	11323.84	5062.126	1331.306	1453.626	4241.777	833	11664.89	284.1379	1	113396.5	141245.5	11949.03	129296.5	137399.1	3.3881	0
146.5554	120.9412	86.5696		6.2002	2.5031	2.9983	11334.73	5156.617	1340.691	1485.246	4117.175	833	11310.11	283.1948	0.9666	115979.9	143473.2	11593.3	131879.9	139741.3	2.9583	0
145.1526	78.3692	87.5838		5.4865	2.2568	2.1773	11226.05	5311.265	1356.051	1932.629	3344.768	879.3419	9113.27	886.7301	0.8195	121286.9	147186.9	10000	137186.9	143967.9	2.1827	1
154.4658	102.2389	87.2518		5.3671	2.2659	2.6485	11857.28	5337.129	1358.62	1818.829	4050.587	890.1144	11129.07	282.4325	0.9708	117955.3	145266.8	11411.5	133855.3	141593.4	2.6185	0
138.0998	112.5615	86.6829		7.2694	2.7412	2.8872	10816.84	4924.969	1317.683	1980.268	3358.915	833	9105.873	894.1271	0.7481	117503.2	143403.2	10000	133403.2	140184.2	2.877	1
144.4261	132.1487	87.3455		6.9313	2.6645	3.2363	11531.63	4998.22	1324.959	2231.124	3742.33	833	10205.11	283.8655	0.8324	115444.3	141833.3	10488.97	131344.3	138456.9	3.194	0
157.3508	116.7353	86.4346		4.5665	2.4571	2.9306	12276.11	5510.598	1375.95	2020.301	4005.001	962.3642	11013.75	283.0774	1	116534.9	143731.7	11296.83	132434.9	140095.2	2.8934	0
143.7022	134.7739	86.8042		6.9652	2.699	3.2872	11192.63	4990.865	1324.228	1972.05	3670.487	833	10060.17	284.0001	0.9183	115268.7	141512.9	10344.17	131168.7	138183.1	3.2442	0
136.7026	152.7651	88.5963		7.3293	2.8672	3.5353	10994.34	4911.98	1316.393	1372.866	4158.102	833	11433.93	284.3766	0.9959	113053.9	140672.2	11718.31	128953.9	136900.1	3.4797	0
138.878	99.6789	88.0204		6.9035	2.6485	2.6316	10923.79	5004.25	1325.558	2068.979	3290.008	833	8949.13	1050.87	0.795	118834.5	144734.5	10000	134734.5	141515.5	2.6328	1
151.2862	111.7004	87.8721		5.428	2.3775	2.8132	12299.14	5323.926	1357.309	2063.228	4268.063	884.6151	11737.17	282.3744	1	116678.6	144598.6	12019.91	132578.6	140729.3	2.777	0
154.616	96.5528	87.7776		4.338	2.1877	2.5333	12263.37	5560.109	1380.767	1878.237	4059.267	982.9854	11162.99	282.1711	1	118544.4	145889.6	11445.16	134444.4	142205.4	2.5062	0
156.0426	107.2325	87.1392		4.9539	2.3332	2.7478	12423.97	5426.66	1367.513	2269.08	4031.313	927.4038	11086.11	282.6594	1	117457.1	144725.9	11368.77	133357.1	141066.2	2.7152	0
139.6894	93.3153	88.6955		6.8153	2.6176	2.4995	11173.18	5023.354	1327.455	2331.961	3255.41	833	8834.91	1165.09	0.763	119516.6	145416.6	10000	135416.6	142197.6	2.5076	1
140.8786	98.1606	88.1053		5.7348	2.3193	2.6056	11269.9	5257.466	1350.708	1885.351	3517.444	856.9346	9556.823	443.1756	0.7787	119089.9	144989.9	10000	134989.9	141770.9	2.5859	1
154.7512	109.3322	86.8035		5.2374	2.3698	2.8017	12272.6	5365.222	1361.41	2369.425	3872.725	901.815	10650.01	282.828	1	117459.5	144292.4	10932.83	133359.5	140773.1	2.769	0
145.8989	82.2773	87.2041		5.3	2.2209	2.2657	11671.13	5351.664	1360.064	2264.625	3396.612	896.1682	9300.058	699.9424	0.8995	120851.4	146751.4	10000	136751.4	143532.4	2.2627	1
151.739	113.4558	87.3914		5.8916	2.4216	2.8781	12025.71	5223.492	1347.333	2306.447	3903.652	842.7846	10728.01	282.9918	0.9773	117002.1	143913.1	11011	132902.1	140368.6	2.8432	0
147.5496	123.3485	86.1372		7.1261	2.7286	3.0921	11243.63	4956.001	1320.765	2292.331	3439.535	833	9400.818	599.1823	0.8688	116470.3	142370.3	10000	132370.3	139151.3	3.0666	1
154.907	101.196	88.0624		4.7609	2.2644	2.6463	12346.15	5468.463	1371.665	2343.99	3815.217	944.8148	10491.85	282.4933	1	118390.2	145064.5	10774.34	134290.2	141596.2	2.6179	0
153.9137	121.7652	87.4252		6.2292	2.5118	3.0112	12141.91	5150.263	1340.06	2276	4140.587	833	11374.62	283.2159	0.967	115869.3	143427.1	11657.83	131769.3	139674.5	2.9706	0
153.5889	126.5335	86.7479		5.1296	2.575	3.1043	12028.52	5379.36	1362.815	1921.471	4055.175	907.7032	11151.73	283.4507	1	115522.3	142857.5	11435.18	131422.3	139176.5	3.062	0
153.5914	114.5876	87.2509		4.9919	2.3965	2.8413	12478.48	5418.411	1366.693	1800.805	4566.6	923.9683	12558.15	282.7059	1	115986.9	144727.7	12840.86	131886.9	140594.2	2.8018	0
146.8138	123.4874	87.0548		6.6449	2.5805	3.0976	11398.31	5060.276	1331.122	2212.077	3559.829	833	9696.806	303.1949	0.8158	116499.1	142399.1	10000	132399.1	139180.3	2.613	1
149.4615	162.2654	88.9761		5.6179	2.9721	3.69	11864.22	5282.793	1353.223	1860.259	4098.459	867.4834	11270.77	284.7447	1	112341.4	139796.9	11555.51	128241.4	136077.1	3.6307	0
136.2111	127.4589	87.0788		7.9983	2.9557	3.1631	10643.82	4767.035	1301.997	2013.297	3326.486	833	9051.744	948.256	0.8004	116024	141924	10000	131924	138705	3.1485	1
143.5886	116.5725	86.7183		6.023	2.4594	2.9338	11517.77	5195.009	1344.504	1806.613	3936.643	833	10818.58	283.1071	0.9771	116646.5	143648.2	11101.69	132546.5	140074.6	2.8972	0
136.8815	84.5661	87.3389		6.5295	2.5659	2.3115	10731.65	5085.266	1333.604	1902.878	3174.9	833	8687.763	1312.237	0.8888	120490.3	146390.3	10000	136390.3	143171.3	2.3289	1
139.5608	99.3348	87.7475		6.0616	2.4164	2.6283	11056.15	5186.646	1343.674	1839.944	3450.886	833	9397.393	602.6074	0.8116	118938.4	144838.4	10000	134838.4	141619.4	2.6137	0
151.1744	97.5501	86.57		5.3016	2.2213	2.5827	12032.22	5351.311	1360.029	2322.234	3700.63	896.021	10132.4	282.3855	0.8994	118967.2	145282	10414.79	134867.2	141929.5	2.5568	0
141.1093	133.3993	86.6358		6.9154	2.6713	3.2463	10921.58	5001.663	1325.301	1504.522	3855.095	833	10541.3	283.8458	0.8762	115170.3	141895.5	10825.14	131070.3	138410.9	3.2024	0
159.2218	86.2498	86.2016		5.0631	2.1422	2.3546	12334.54	5402.999	1365.163	2739.479	3507.349	917.549	9570.768	429.2323	0.8428	120429.5	146329.5	10000	136329.5	143110.5	2.3401	1
141.7651	102.823	86.0421		6.1065	2.4246	2.6996	10735.64	5176.927	1342.708	1495.809	3485.196	833	9475.504	524.4959	0.7881	118573.8	144473.8	10000	134473.8	141254.8	2.6806	1
146.6317	123.1617	85.4913		6.6537	2.5992	3.0912	11267.42	5058.369	1330.933	2114.556	3528.558	833	9651.99	348.0104	0.8825	116524.4	142424.4	10000	132424.4	139205.4	3.0566	1
144.2639	127.4689	86.9608		6.5611	2.5796	3.1113	11508.43	5078.425	1332.925	1687.297	4174.784	833	11434.04	283.432	0.9047	115299.6	142917.1	11717.47	131199.6	139145.2	3.0677	0
143.0113	164.7006	86.9274		6.7122	2.9787	3.6998	11347.88	5045.696	1329.674	1393.47	4344.044	833	11946.12	284.6691	1	111850.2	139981	12230.79	127750.2	136043.9	3.6368	0
151.2442	179.4072	88.3635		4.345	3.1378	3.9345	12273.57	5558.577	1380.615	1763.358	4186.672	982.3471	11513.35	285.2536	1	110890.5	138589.1	11798.6	126790.5	134791.1	3.8666	0
156.0224	128.4332	87.4649		5.0726	2.5713	3.099	12404.63	5400.926	1364.957	1853.47	4466.591	916.6858	12283.13	283.3021	1	114805.4	143271.8	12566.43	130705.4	139226.4	3.0527	0
141.779	134.3388	87.1206		6.9878	2.6911	3.2756	11168	4985.978	1323.743	1901.684	3721.593	833	10175.1	283.9588	0.8743	115255.1	141614.2	10459.06	131155.1	138247.4	3.	

TABLE 1

yield draws	crude oil price draws	corn acres draws	Mandate 10bg, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
155.6635	109.9333	88.2504		5.2871	2.3514	2.7746	12439.76	5354.464	1360.342	2097.636	4327.984	897.3343	11901.96	282.6314	1	116774	144858.6	12184.59	132674	140936.3	2.739	0
154.697	164.5585	87.4793		5.2949	2.9971	3.727	12150.73	5352.778	1360.174	2058.615	4080.531	896.6319	11221.46	284.8345	1	112177.7	139584	11506.3	128077.7	135880.1	3.6688	0
152.2467	164.997	87.4738		3.473	3.0063	3.7405	12423.68	5747.512	1399.381	1794.569	4019.177	1061.039	11052.74	284.8892	1	112216	139453.6	11337.63	128116	135804	3.6808	0
145.4188	129.1412	87.5442		6.6461	2.6017	3.1437	11382.67	5060.006	1331.095	1611.912	4144.654	833	11347.39	283.5149	0.8982	115184.7	142715.6	11630.91	131084.7	138971.6	3.0995	0
146.3302	108.507	87.5258		6.1689	2.4371	2.8137	11477.47	5163.41	1341.366	2198.997	3538.698	833	9601.632	298.3677	0.76	117991.1	143891.1	10000	133891.1	140672.1	2.875	1
153.5786	129.189	87.9394		5.2685	2.6023	3.1447	12268.48	5358.485	1360.741	2123.418	4124.831	899.009	11343.29	283.5176	1	115182.2	142709	11626.8	131082.2	138966.3	3.1005	0
150.3362	147.7171	87.2001		7.5148	2.8406	3.496	11577.01	4871.802	1312.402	2381.356	3776.448	833	10326.73	284.4401	0.877	113985.1	140496.3	10611.17	129885.1	137080.6	3.4465	0
140.1503	152.0458	87.0252		6.9066	2.8613	3.5266	10732.34	5003.569	1325.49	1036.237	4132.046	833	11363.13	284.3669	1	113146.3	140693.8	11647.49	129046.3	136944.5	3.4715	0
150.0775	102.8795	87.6408		5.5984	2.2948	2.6911	11833.19	5287.019	1353.643	2217.634	3703.648	869.2434	10113.47	282.6345	0.8539	118403.2	144699.3	10396.1	134303.2	141352.8	2.6626	0
153.2343	164.1242	86.8601		5.7875	2.9706	3.688	11948	5246.035	1349.572	1726.291	4371.926	852.1734	12022.81	284.632	1	111862.6	140070	12307.44	127762.6	136108.3	3.6249	0
142.2048	123.1274	88.1453		6.3933	2.5426	3.0566	11447.27	5114.781	1336.536	1841.073	3919.88	833	10752.59	283.3914	0.9346	116038.4	142974.4	11035.98	131938.4	139421.9	3.0169	0
148.3756	142.6227	85.8238		7.0735	2.7494	3.3617	11685.13	4967.411	1321.899	1908.593	4252.229	833	11677.6	283.9579	0.9594	113813.6	141675.2	11961.55	129713.6	137824.7	3.31	0
148.8005	163.5482	88.2345		5.9203	2.9951	3.7239	11613.31	5217.271	1346.715	1837.533	3969.599	840.1933	10916.4	284.8719	1	112392.2	139493.7	11201.27	128292.4	135888	3.6654	0
152.7455	144.1089	88.6402		6.8643	2.7476	3.3591	12261.63	5012.745	1326.401	2176.297	4511.192	833	12405.65	283.8568	0.9992	113350.4	141939.9	12689.5	129250.4	137855.1	3.3044	0
152.3994	119.9689	87.8059		5.0705	2.4707	2.9507	12168.7	5401.383	1365.002	1640.389	4443.048	916.8759	12218.38	282.9841	1	115632.5	144033.9	12501.37	131532.5	140009.7	2.9091	0
149.1256	133.6641	87.7443		5.9349	2.6804	3.2598	11609.26	5204.112	1346.402	2069.552	3734.314	838.8777	10280.37	292.9114	1	115269.9	141734.2	10564.28	131169.9	138333.5	3.2166	0
151.74	129.2152	88.3177		5.4452	2.5766	3.1068	12344.82	5320.205	1356.939	1854.84	4527.776	883.0654	12451.39	283.2988	1	114653.4	143288	12734.69	130553.4	139188.7	3.0597	0
148.1304	116.8682	87.9513		5.8089	2.4627	2.9387	11716	5241.414	1349.113	1931.768	3941.46	850.2488	10839.02	283.1547	1	116607.3	143629.4	11122.13	132507.3	140049.2	2.9018	0
149.5079	109.0797	87.1311		5.9116	2.38	2.8168	11750.25	5219.159	1346.903	2275.897	3665.307	840.9796	10000.21	282.9334	0.8403	117809.6	143992.8	10283.14	133709.6	140682.6	2.7856	0
151.4026	108.387	86.6314		6.4586	2.526	2.8093	11693.98	5100.632	1335.131	2561.308	3461.909	833	9422.56	577.4399	0.804	117979.8	143879.8	10000	133879.8	140660.8	2.7896	1
148.6304	116.8429	87.2058		5.954	2.4607	2.9359	11788.01	5209.964	1345.99	2024.612	3968.29	837.15	10911.61	283.101	0.9945	116574.2	143668.9	11194.71	132474.2	140065.4	2.8988	0
149.5327	120.9647	88.769		6.0472	2.4996	2.9932	12153.02	5189.769	1343.984	2210.812	4173.451	833	11476.67	283.1641	0.9981	115896.9	143556.7	11759.83	131796.9	139771.3	2.9528	0
136.3355	109.9842	86.8144		6.6468	2.5845	2.8397	10848.52	5059.85	1331.08	1794.188	3428.399	833	9348.606	651.3937	0.8317	117803.3	143703.3	10000	133703.3	140484.3	2.822	1
145.3592	174.7805	88.5806		7.0581	3.0633	3.8246	11445.32	4970.373	1322.229	1665.459	4551.899	833	12517.73	284.8595	1	110819.3	139521.9	12802.59	126719.3	135407.9	3.7548	0
153.9214	100.779	87.8893		5.3757	2.2524	2.6286	11740.63	5335.258	1358.434	2480.928	3941.672	889.335	10812.22	282.4205	0.9343	118271.2	145265.9	11094.64	134171.2	141694.5	2.5999	0
143.4345	211.5421	85.9626		7.419	3.4294	4.3646	11201.42	4892.549	1314.463	1563.415	4195.989	833	11538.97	286.206	1	108601	136326.2	11825.18	124501	132519.6	4.2834	0
152.6831	91.4293	86.5555		5.0171	2.1317	2.4506	11924.08	5412.969	1366.153	2043.977	3777.284	921.7016	10315.99	282.0669	0.8562	119547.9	146046	10598.06	135447.9	142634.5	2.4274	0
142.4968	74.033	85.9516		6.3877	2.4933	2.0749	10941.49	5116.002	1336.657	2108.368	3145.462	833	8516.905	1483.905	0.732	121720	147620	10000	137620	144401	2.1033	1
143.3772	96.4933	86.7431		5.9576	2.3831	2.5699	11265.88	5209.181	1345.912	2020.101	3451.867	836.8238	9385.183	614.8167	0.7885	119247	145147	10000	135147	141928	2.5571	1
146.0263	177.4376	87.4625		8.2959	3.0954	3.872	11420.25	4702.555	1295.592	1707.706	4479.398	833	12297.77	284.9663	0.9525	110711.9	139194.6	12582.76	1266611.9	135144.3	3.8018	0
152.2929	115.8973	87.7289		5.9526	2.4324	2.8941	12309.87	5210.265	1346.02	2268.529	4245.784	837.2754	11663.81	282.9222	0.9674	116298.7	144145.4	11946.73	132198.7	140299.7	2.8558	0
149.6458	119.303	87.2989		6.3191	2.5087	3.0065	11756.99	5130.859	1338.133	2346.939	3706.064	833	10145.79	283.3495	0.8967	116704.7	143033.9	10429.14	132604.7	139676.7	2.9702	0
142.9188	109.371	87.4053		6.2713	2.477	2.8296	11131.77	5141.224	1339.162	1913.578	3502.805	833	9544.898	455.1023	0.8211	117895.5	143795.5	10000	133795.5	140576.5	2.8051	1
156.188	154.2529	87.0456		4.385	2.8986	3.5816	12364.07	5549.916	1379.755	2108.36	3945.303	878.7401	10849.6	284.5613	1	113190	140224.2	11134.16	129090	136640.1	3.5274	0
152.1485	106.4147	87.2619		5.6271	2.3222	2.7315	12136.89	5280.805	1353.026	2188.024	4046.378	866.6551	11096.43	282.622	0.9289	117536.2	144815.3	11379.05	133436.2	141152.4	2.6994	0
139.7669	92.8639	85.7897		6.666	2.5729	2.4906	10682.09	5055.69	1330.667	1773.189	3287.545	833	8910.449	1089.551	0.7452	119578.3	145478.3	10000	135478.3	142259.3	2.4963	1
147.6382	87.7863	86.2447		4.9337	2.1217	2.3884	11466.84	5431.027	1367.946	1813.782	3522.864	929.2229	9655.37	344.6305	0.9179	120265.4	146165.4	10000	136165.4	142946.4	2.3702	1
152.2297	166.0608	86.8427		5.7909	3.0295	3.7746	11798.93	5245.308	1349.5	2092.58	3857.676	851.8709	10608.61	285.0312	1	112323.5	139117.1	10893.64	128223.5	135610.5	3.7163	0
138.3442	112.9662	87.5455		6.1284	2.4347	2.8974	10962.3	5172.174	1342.236	1606.407	3606.483	833	9819.8	283.1379	0.8096	117499.9	143502.9	10102.94	133399.9	140250.7	2.8648	0
153.7916	109.6923	87.6229		5.5865	2.3556	2.7808	12182.04	5289.597	1353.899	2065.034	4201.191	870.3172	11552.31	282.683	0.9955	116927.2	144707.7	11834.99	132827.2	140898	2.7461	0
140.7321	111.7565	87.5469		6.2091	2.4732	2.8764	10953.36	5154.701	1340.501	1708.122	3515.037	833	9614.159	385.8414	0.881	117659.6	143559.6	10000	133559.6	140340.6	2.8483	1
147.2651	113.4872	87.1733		6.0195	2.4219	2.8786	11901.31	5195.783	1344.581	2204.704	3921.24	833	10730.64	282.9927	0.8898	116997.6	143911.3	10113.63	132897.6	140366	2.8437	0
154.6049	129.8954	86.6759		5.2216	2.6203	3.1712	12415.6	5368.661	1361.752	2403.118	3979.825	903.2427	10936.27	283.6271	1	115309.3	142429.2	11219.9	131209.3	138817.5	3.1278	0
144.5929	135.0524	87.8923		6.4787	2.6623	3.2332	11414.55	5096.28	1334.698	1489.281	4259.287	833	11713.04	283.6685	1	114470.2	142366.9	11996.71	130370.2	138505.2	3.185	0
153.3127	130.4889	87.4495		6.4311	2.5969	3.1368	12042.29	5106.593	1335.723	1918.939	4446.034	833	12224.78	283.3921	0.993	114644.2	143052.3	12508.17	130544.2	139026	3.0	

TABLE 1

yield draws	crude oil price draws	corn acres draws	Mandate 10bg, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
138.052	123.8258	86.8213		6.5508	2.5623	3.0856	10707.69	5080.663	1333.147	1299.559	3759.321	833	10264.45	283.5155	0.8523	116205.8	142653.8	10547.96	132105.8	139258.4	3.0469	0
144.9147	79.0814	86.5422		6.898	2.6361	2.1884	11106.37	5005.43	1325.675	2443.735	3096.529	833	8388.251	1611.749	0.7381	121090.3	146990.3	10000	136990.3	143771.3	2.2188	1
154.0179	142.6726	86.8897		5.1119	2.7668	3.3873	12139.91	5392.415	1364.111	2065.552	4002.69	833	913.1407	11007.4	1	114117	141308.5	11291.5	130017	137673.8	3.3377	0
152.5773	110.0767	88.467		5.6836	2.3901	2.8316	12197.18	5268.557	1351.809	2623.345	3689.913	861.554	10146.86	282.9511	0.9975	117633.7	143963.5	10429.81	133533.7	140606.2	2.7996	0
137.9262	174.8876	86.6395		8.2706	3.1083	3.8908	10893.42	4708.035	1296.137	1658.584	3995.665	833	10980.71	285.2373	0.9769	111466.6	138632.5	11265.95	127366.6	135006	3.8272	0
150.1914	139.055	87.4122		6.2757	2.7083	3.3011	11799.32	5140.258	1339.066	1827.193	4257.802	833	11708.96	283.8194	1	114113.8	142006.6	11992.78	130013.8	138146.1	3.2521	0
147.9323	96.2828	87.9177		5.3103	2.2267	2.568	11680.43	5349.429	1359.842	2137.903	3536.014	895.2371	9687.704	312.2956	0.9107	119315.3	145215.3	10000	135215.3	141996.3	2.5445	1
139.5407	84.5947	87.3614		7.0691	2.6792	2.3106	10991.49	4968.357	1321.993	2335.244	3130.898	833	8465.418	1534.582	0.7135	120453.1	146353.1	10000	136353.1	143134.1	2.3357	1
142.9276	163.7724	87.334		6.4364	2.9947	3.7234	11396.79	5105.436	1335.608	1715.948	4004.801	833	11013.21	284.8567	1	112332	139530.1	11298.06	128232	135893.2	3.6644	0
147.5277	182.3836	88.4114		6.8432	3.1526	3.9564	11682.83	5017.301	1326.854	1752.831	4350.839	833	11964.81	285.2327	1	110482.4	138632.4	12250.04	126382.4	134689.1	3.8854	0
154.3624	100.9596	87.1442		5.4709	2.273	2.659	11854.45	5314.647	1356.387	2290.775	3609.894	880.7505	9891.563	282.5843	0.9135	118721.3	144795.5	10174.15	134621.3	141520.4	2.6319	0
132.2901	120.4061	87.1153		7.2533	2.7425	3.0369	10211.27	4928.452	1318.029	1306.234	3423.552	833	9300.867	699.1333	0.7774	116744.3	142644.3	10000	132644.3	139425.3	3.0163	1
142.6129	166.5747	86.742		7.8876	3.0128	3.75	11049.88	4791.028	1304.328	1571.323	4148.07	833	11404.02	284.8593	0.9885	111937	139525.9	11688.88	127837	135763.2	3.6883	0
148.3529	114.1639	88.9664		5.5997	2.4051	2.8539	11975.01	5286.735	1353.615	1731.108	4332.424	869.1251	11914.17	282.8051	1	116346.2	144443.2	12196.97	132246.2	140517	2.816	0
148.0214	129.946	88.7553		6.5185	2.6115	3.1583	11924.04	5087.653	1333.841	2144.647	4122.898	833	11333.94	283.5491	0.986	115116.2	142633.7	11617.48	131016.2	138894.1	3.1138	0
138.0739	142.714	87.9472		6.6921	2.7819	3.4095	10945.92	5050.052	1330.107	1540.098	3790.667	833	10424.34	284.2505	1	114380.9	140989.4	10708.57	130280.9	137542.3	3.3618	0
153.0595	111.4769	87.3055		5.5668	2.401	2.8477	11664.61	5293.854	1354.322	2125.409	3816.935	872.0903	10496.57	282.9489	1	117316.8	143996.3	10779.52	133216.8	140526.3	2.8143	0
144.9806	211.1522	86.3145		8.2455	3.4135	4.3411	11415.46	4713.465	1296.676	1831.017	4339.307	833	11933.1	286.0872	1	108471.7	136590.9	12219.18	124371.7	132657.5	4.2581	0
150.5602	93.1991	88.7457		4.5307	2.1317	2.4507	12613.03	5518.349	1376.619	2107.828	4242.645	965.5924	11667.28	281.938	1	118646.9	146496.1	11949.21	134546.9	142649.6	2.4246	0
154.3196	151.0714	88.3069		3.3189	2.8698	3.5391	12536.63	5780.907	1402.698	2010.808	3865.274	1074.948	10629.51	284.4961	1	113558.8	140372.8	10914	129458.8	136859.6	3.4871	0
157.2946	101.2619	86.982		5.3937	2.2496	2.6245	12211.73	5331.372	1358.048	2112.027	4120.564	887.7165	11287.45	282.3625	0.9078	117977.6	145447.4	11569.81	133877.6	141723.1	2.5947	0
152.2217	112.2063	87.5589		5.8165	2.3994	2.8454	12152	5239.755	1348.949	2303.386	4008.349	849.5581	11015.46	282.8861	0.9766	116985.7	144184.1	11298.35	132885.7	140547.1	2.8104	0
159.0978	104.5798	87.4717		5.4622	2.2813	2.6714	12566.38	5316.519	1356.573	2269.509	4340.25	881.53	11912.16	282.4021	0.9459	117314.2	145408.8	12194.56	133214.2	141483.4	2.6387	0
149.9372	96.6361	87.6257		5.5234	2.2609	2.5749	11845.05	5303.264	1355.257	2365.093	3543.43	876.0093	9629.99	370.0099	0.7824	119267.8	145167.8	10000	135167.8	141948.8	2.5532	1
156.7786	106.0482	86.5276		5.9777	2.5615	3.0846	12103.47	5204.821	1345.479	2141.997	4174.16	835.0081	11478.94	283.0699	1	115411.6	143073.9	11762.31	131311.6	139287.6	3.0416	0
156.7224	136.2659	88.5879		5.562	2.6689	3.243	12556.74	5294.898	1354.426	2263.507	4369.38	872.5249	12015.81	283.6519	1	114219.6	142419	12299.46	130119.6	138459.8	3.1935	0
148.5603	135.2429	87.5184		6.3252	2.653	3.2195	11683.04	5129.548	1338.003	1548.496	4431.994	833	12187.99	283.5785	1	114230.7	142602.3	12471.56	130130.7	138587.7	3.17	0
152.3349	121.0141	87.768		5.6565	2.4811	2.966	12145.88	5274.426	1352.392	1769.882	4483.177	863.9985	12328.74	283.0048	1	115479.1	143990.8	12611.74	131379.1	139931.1	2.9235	0
151.2753	101.1412	87.601		4.7699	2.2664	2.6492	12062.26	5466.527	1371.472	2112.715	3765.534	944.0083	10355.22	282.514	1	118465.6	145003.4	10637.73	134365.6	141579.1	2.6211	0
152.068	116.7701	86.1078		6.0546	2.459	2.9334	11776.2	5188.168	1343.825	2023.621	3985.59	833	10946.99	283.0914	0.9629	116564.1	143694.2	11230.08	132464.1	140079.2	2.8963	0
147.3208	140.1228	87.1293		6.8814	2.7374	3.3439	11461.93	5009.026	1326.032	1881.909	4009.962	833	11026.68	284.0033	0.9964	114334.3	141545	11310.69	130234.3	137904.1	3.2954	0
156.3347	107.1568	88.062		4.2728	2.3292	2.7418	12661.41	5574.224	1382.169	2229.368	4084.783	988.8641	11233.15	282.6304	1	117391.1	144806.9	11515.78	133291.1	141099.9	2.709	0
151.5408	111.5125	86.8222		5.9151	2.3986	2.8442	11922.04	5218.405	1346.828	2231.999	3882.138	840.6658	10636.54	282.9254	0.9117	117242.8	144062.3	10919.47	133142.8	140547.3	2.8104	0
148.9259	106.1518	87.7302		5.4924	2.3015	2.7011	12070.23	5309.975	1355.923	1778.296	4345.237	878.8045	11938.23	282.465	0.97	117139.6	145260.3	12220.7	130309.6	141326.4	2.6674	0
155.6404	119.921	87.5256		5.8749	2.4636	2.9402	12573.98	5227.096	1347.691	2202.526	4550.383	844.2856	12513.53	282.927	0.9998	115493.5	144189.9	12796.46	131393.5	140070.8	2.8979	0
151.8232	109.9082	86.8556		4.7265	2.3699	2.802	11808.47	5475.926	1372.406	1609.696	4000.516	947.923	11001.42	282.7902	1	117225.5	144409.7	1184.21	133125.5	140777.3	2.7682	0
151.4791	117.2738	86.9839		6.055	2.4505	2.9208	12006.01	5188.081	1343.816	2003.272	4235.841	833	11625.24	282.9859	0.9453	116182.7	143990.9	11298.23	132082.7	140157.6	2.8819	0
153.058	89.2063	86.2649		5.4149	2.2271	2.4176	11882.47	5326.762	1357.59	2412.895	3497.421	885.7964	9488.534	511.4661	0.7584	120078	145978	10000	135978	142759	2.4046	1
145.8312	123.6088	85.6879		6.5366	2.5598	3.0818	11430	5083.746	1333.453	2021.907	3755.893	833	10258.9	283.5076	0.8582	116229.5	142671.9	10542.41	132129.5	139278.3	3.0433	0
153.2972	167.3322	84.8975		5.6822	3.0494	3.8039	11667.16	5126.864	1351.84	2014.409	3768.366	861.682	10363.01	285.1379	1	112327.2	138875.8	10648.14	128227.2	135448.2	3.7461	0
145.4974	131.4273	87.0233		6.6209	2.6308	3.1866	11431.79	5065.472	1331.638	1701.013	4098.669	833	11263.24	283.6211	0.9756	115012.6	142459.5	11546.86	130912.6	138745.5	3.1416	0
138.7347	136.7646	87.8434		7.4958	2.8359	3.3318	11229.36	4875.914	1312.811	2329.037	3476.594	833	9507.919	492.0809	0.879	115216.6	141116.6	10000	131116.6	137897.6	3.2966	1
155.7043	99.0773	87.9821		4.3709	2.2267	2.5907	12322.8	5552.983	1380.059	2024.149	3983.593	980.0172	10954.88	282.3207	1	118377.8	145515	11237.2	134277.8	141897.7	2.5626	0
149.6451	93.7448	88.7002		5.0047	2.1424	2.4664	12246.26	5415.645	1366.419	1943.282	4196.1	922.8162	11501.67	281.9889	0.9198	118673.6	146357.3	11783.66	134573.6	142564.2	2.4403	0
149.424	209.5631	88.1026		5.3268	3.4388	4.3783	12100.54	5345.859	1359.487	2206.196	3893.247	893.7503	10706.43	286.3786	1	109062.6	135955.5	10992.81	1			

TABLE 1

yield draws	crude oil price draws	corn acres draws	Mandate 10bg, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
145.4234	135.8514	85.6645		6.9307	2.6977	3.2853	11237.89	4998.357	1324.972	1802.343	3877.217	833	10637.76	283.9216	0.9388	114900.1	141721.8	10921.68	130800.1	138206.1	3.24	0
140.4186	171.6162	87.82		7.9761	3.0593	3.8187	11288.82	4771.847	1302.475	1776.601	4202.894	833	11557.28	284.9896	0.9966	111474	139216.3	11842.27	127374	135404.2	3.7541	0
156.9996	159.3558	87.3361		3.2182	2.9809	3.7028	12619.66	5802.728	1404.865	2356.759	3569.271	1084.036	9815.505	284.9834	1	113220.3	139220.8	10100.49	129120.3	135969.5	3.6504	0
156.6077	105.2013	87.3973		5.4744	2.3053	2.7067	12489.16	5313.869	1356.31	2485.183	4051.371	880.4265	11136.04	282.5621	0.9826	117642	144960.6	11418.6	133542	141285	2.6751	0
151.0979	106.5885	86.9751		5.0825	2.3225	2.732	12183.62	5398.797	1364.745	2032.196	4070.084	915.7989	11192.74	282.6128	1	117469.9	144845.2	11475.35	133369.9	141151.3	2.6996	0
153.0798	126.7376	87.1901		6.3029	2.5549	3.0749	12228.53	5134.374	1338.482	2112.222	4408.456	833	12120.58	283.2686	0.9904	115040.1	143344	12403.85	130940.1	139351.2	3.0299	0
141.9114	111.7933	86.5806		6.6908	2.598	2.8749	11012.46	5050.337	1330.135	1962.285	3434.701	833	9368.803	631.197	0.8366	117620	143520	10000	133520	140301	2.8556	1
140.9455	170.2276	86.7524		8.2303	3.0645	3.8262	10988.31	4716.773	1297.004	1772.718	3966.815	833	10879.43	285.1074	0.9311	111874.2	138938.7	11164.54	127774.2	135344.9	3.765	0
145.7348	123.8911	86.9734		6.4207	2.5498	3.0672	11628.99	5108.844	1335.946	1993.652	3955.548	833	10849.57	283.4036	0.933	115918.4	142951.4	11132.97	131818.4	139367.7	3.0269	0
155.826	118.4217	87.3299		5.1773	2.4655	2.943	12445.9	5378.247	1362.704	2179.908	4215.802	907.2397	11593.46	283.0387	1	116086.3	143862.8	11876.5	131986.3	140039.7	2.9035	0
150.795	160.5597	86.7712		6.9706	2.9526	3.6613	11697.85	4989.698	1324.112	2027.569	4121.474	833	11334.06	284.6714	1	112452.3	139971.1	11618.73	128352.3	136231	3.6024	0
154.5773	124.7119	86.9221		4.9485	2.5543	3.0738	12081.56	5427.829	1367.629	1922.851	4033.358	927.8906	11091.74	283.3895	1	115723.7	142998.8	11375.12	131623.7	139337.2	3.0325	0
140.9905	106.2114	87.3888		5.7211	2.341	2.7592	11277.41	5260.42	1361.001	1737.114	3668.706	858.1649	10064.82	282.7969	0.9026	118085.1	144314.7	10329.62	133985.1	140989.6	2.7293	0
144.4767	134.4134	88.0983		6.8388	2.6864	3.2685	11261.4	5018.26	1326.949	1891.489	3789.704	833	10410.31	283.9128	0.9661	115138.2	141732.4	10694.22	131038.2	138290	3.2246	0
140.4169	148.3098	88.3101		7.4445	2.8357	3.4888	11204.55	4887.016	1313.913	1837.437	3931.181	833	10775.3	284.3626	0.9194	113730.6	140690.2	11059.66	129630.6	137130.1	3.4374	0
153.0866	178.4734	86.9035		7.7265	3.0936	3.8694	12039.43	4825.934	1307.847	2050.268	4020.381	833	12706.53	284.9289	1	110461	139352	12920.98	126361	135170.1	3.7971	0
134.8048	148.006	86.884		7.6152	2.8487	3.5079	10443.27	4850.05	1310.242	1322.778	3725.199	833	10137.13	284.943	0.801	114045.8	140367.4	10421.63	129945.8	137017.2	3.459	0
143.9988	125.8027	87.1361		6.378	2.5718	3.0997	11537.05	5118.111	1336.867	1880.533	3966.543	833	10904.42	283.4702	0.9869	115709.7	142797.6	11187.89	131609.7	139196.2	3.0583	0
151.3318	110.5679	87.1185		5.666	2.3605	2.7881	11975.96	5272.357	1352.187	1773.537	4312.745	863.1367	11854.36	282.6664	0.9823	116733.9	144770.9	12137.03	132633.9	140864	2.7523	0
139.5582	121.3375	87.3219		7.2019	2.7276	3.0547	10928.47	4939.58	1319.134	1991.122	3443.633	833	9353.407	646.5935	0.7744	116660.2	142560.2	10000	132560.2	139341.2	3.0317	1
155.2992	130.5855	86.6411		5.0157	2.6064	3.1507	12363.42	5413.266	1366.182	1943.132	4317.014	921.8255	11871.79	283.4661	1	114802.5	142857.7	12155.26	130702.5	138945	3.1044	0
139.295	145.321	85.381		7.6799	2.8941	3.4779	10908.98	4836.021	1308.849	2027.181	3501.927	833	9587.322	412.6776	0.8974	114455.5	140355.5	10000	130355.5	137136.5	3.4363	1
157.6188	158.1128	86.5202		5.6495	2.8937	3.5745	12436.03	5275.936	1352.542	1970.23	4570.694	864.6275	12569.41	284.3057	1	112105.5	140859.2	12853.72	128005.4	136721.5	3.5124	0
145.482	118.427	87.1469		6.2095	2.4902	2.9792	11355.5	5154.611	1340.492	1804.349	3821.047	833	10481.46	283.2445	0.9346	116627.9	143292.6	10764.71	132527.9	139827.4	2.9425	0
145.8628	100.8317	86.8639		5.2472	2.2595	2.639	11665.41	5314.402	1356.363	1870.73	3841.269	890.6486	10490.04	282.4771	0.8551	118430	145102.5	10772.52	134330	141634.8	2.6109	0
143.7781	106.887	87.6798		5.8042	2.3539	2.7782	11378.76	5242.427	1349.214	1925.915	3608.531	850.6708	9857.127	282.8608	0.8595	118109.5	144149.5	10139.99	134009.5	140885.4	2.7484	0
150.191	120.7619	84.7517		6.1964	2.5164	3.0179	11725.93	5157.439	1340.773	2130.27	3862.445	833	10617.42	283.3201	0.9845	116332.9	143133.6	10900.75	132232.9	139624.7	2.9797	0
137.8234	119.2388	87.9315		6.4311	2.516	3.0172	11022.33	5106.605	1335.724	1748.885	3596.112	833	9779.768	283.4171	0.792	116888.9	142852	10063.19	132788.9	139617.2	2.9819	0
154.354	123.3547	87.9898		6.4014	2.5536	3.0728	12477.41	5113.039	1336.363	2811.931	3981.079	833	10930.3	283.4067	0.9538	115835.2	142948.9	11213.71	131735.2	139339.3	3.0321	0
147.9439	153.1497	87.491		5.8432	2.8614	3.5268	11924.16	5333.968	1348.374	1797.728	4294.947	847.1475	11811.11	284.3059	1	112852.5	140847.9	12095.41	128752.5	136954.4	3.4697	0
140.9288	107.4324	88.4675		7.012	2.6692	2.7878	11434.54	4980.741	1323.223	2532.764	3362.813	833	9114.994	885.0059	0.746	118034.3	143934.3	10000	133934.3	140715.3	2.7796	1
138.9509	120.689	86.9357		7.9565	2.9308	3.0386	10670.61	4776.093	1302.896	2058.77	3297.848	833	8935.869	1064.131	0.7415	116663.9	142563.9	10000	132563.9	139344.9	3.031	1
154.2914	101.4516	86.5274		5.3153	2.2574	2.636	12084.45	5348.346	1359.734	2069.035	4010.545	894.786	11022.95	282.4153	0.9803	118092.4	145297.8	11305.37	133992.4	141658.6	2.6065	0
153.6589	151.0544	87.9551		5.2192	2.8425	3.499	12353.45	5369.172	1361.803	2073.236	4243.78	903.4603	11670.4	284.2634	1	113091.8	140946.5	11954.66	128991.8	137098.3	3.4433	0
155.4579	101.7038	86.9233		5.3856	2.6559	2.6485	12317.79	5333.115	1358.221	2416.57	3919.449	888.4425	10764.4	282.4702	0.9609	118197.4	145144.2	11046.87	134097.4	141588.2	2.6194	0
141.3114	201.4503	87.8514		6.8104	3.3452	4.2403	11329.38	5204.417	1327.561	1593.521	4148.877	833	11409.41	285.9152	1	109340.6	136936	11695.36	125240.6	133171.2	4.1639	0
152.2153	188.0704	86.8178		3.4556	2.376	4.0816	12087.9	5751.284	1399.755	1503.894	3968.354	1062.61	10912.98	285.6765	1	110500.1	137598.7	11198.65	126400.1	133993.9	4.0129	0
145.5166	148.1164	87.7528		5.634	2.8236	3.471	11614.34	5279.303	1352.877	1655.293	4058.834	866.0297	11161.8	284.2702	1	113572.2	140918.3	11446.07	129472.2	137233.8	3.4184	0
142.1062	110.5498	87.257		7.2287	2.7389	2.8481	11181.13	4933.779	1318.558	2363.014	3330.777	833	9058.621	941.3789	0.7927	117702.6	143602.6	10000	133602.6	140383.6	2.8405	1
151.8335	123.9534	89.0331		5.9613	2.5301	3.0382	12203.55	5208.377	1345.832	2140.058	4270.797	836.4889	11744.69	283.2324	1	115482	143409.9	12027.92	131382	139538.2	2.9956	0
154.2069	118.7585	87.6413		4.5131	2.4781	2.9614	12330.53	5522.167	1376.999	1983.355	4078.828	967.1827	11216.78	283.1233	1	116237.1	143637	11499.91	132137.1	139935.2	2.9227	0
142.1559	129.2446	87.7782		6.7635	2.6225	3.1744	11434.9	5034.568	1328.569	1986.635	3850.124	833	10513.27	283.6865	0.8536	115570.7	142267.6	10796.95	131470.7	138792.1	3.3225	0
149.4234	109.0199	87.3668		5.71	2.3466	2.7676	11805.12	5262.835	1351.241	1713.133	4216.738	859.1707	11564.95	282.6522	0.9312	117034.6	144782.2	11847.6	132934.6	140968.4	2.7331	0
146.026	106.7978	86.9989		5.6981	2.3388	2.756	11456.77	5265.407	1351.496	1733.509	3844.112	860.2401	10535.61	282.7327	0.9175	117778.4	144496.7	10818.34	133678.4	141014.3	2.7247	0
154.6105	116.7377	87.0731		5.216	2.4685	2.9472	11717.18	5369.863	1361.871	1861.987	3817.716	903.7479	10498.72	283.174	1	116786.7	143468.6	10781.9	1			

TABLE 1

yield draws	crude oil price draws	corn acres draws	Mandate 10bg, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
138.649	141.9759	86.9842		7.5024	2.8374	3.4221	10829	4874.485	1312.669	1887.425	3519.424	833	9624.33	375.6704	0.8778	114759.2	140659.2	10000	130659.2	137440.2	3.3805	1
151.8509	114.6988	87.3224		5.7729	2.4204	2.8764	12125.41	5249.198	1349.887	2081.838	4189	853.491	11519.49	282.8992	0.9984	116487.9	144190.3	11802.39	132387.9	140391.1	2.8391	0
148.4267	147.1733	86.7923		6.6485	2.8109	3.4522	11380.72	5059.489	1331.044	1663.297	4091.894	833	11252.71	284.2159	1	113612.2	141049.2	11536.93	129512.2	137335.4	3.3988	0
146.2081	177.1203	88.0872		6.0852	3.1158	3.9019	11542.53	5181.551	1343.168	1606.214	4176.598	833	11485.65	285.1854	1	11080.5	138751.3	11770.83	126980.5	134962.3	3.8352	0
141.5338	88.9001	88.203		6.1761	2.437	2.3663	11151.09	5161.838	1341.21	2088.686	3324.353	833	9011.318	988.6817	0.7469	120260.5	146160.5	10000	136160.5	142951.5	2.3711	1
144.5662	118.3903	87.8197		6.1948	2.4822	2.9674	11589.26	5157.8	1340.809	1907.757	3947.898	833	10823.82	283.1821	0.9242	116464.7	143471.7	11107	132364.7	139896.3	2.9299	0
142.2674	151.2303	87.3968		7.6922	2.8861	3.5631	11269.08	4833.36	1308.584	2206.19	3685.943	833	10070.15	284.628	0.862	113796.5	140051.3	10354.78	129696.5	136718.1	3.5131	0
155.647	151.8837	87.5856		6.3121	2.856	3.5189	12538.55	5132.374	1338.283	2652.718	4180.177	833	11495.49	284.3316	1	113100.5	140780.3	11779.82	129000.5	136988.4	3.4634	0
145.3437	107.8088	85.3923		7.3026	2.7534	2.7938	11212.54	4917.763	1316.967	2441.825	3300.988	833	8958.752	1041.248	0.7632	117972.1	143872.1	10000	133872.1	140653.1	2.791	1
139.6054	112.0974	88.2769		6.3472	2.4833	2.8829	11038.85	5124.772	1337.528	1796.976	3544.572	833	9602.949	397.0515	0.7394	117623	143523	10000	133523	140304	2.8551	1
140.6591	102.1533	86.4814		6.2402	2.4699	2.6852	10842.11	5147.948	1339.83	1683.235	3436.098	833	9368.027	631.9733	0.8291	118630.1	144530.1	10000	134530.1	141311.1	2.6703	1
137.9038	100.1616	86.4741		5.9387	2.3954	2.6457	10885.45	5213.278	1346.319	1624.991	3460.334	838.5302	9461.248	538.7516	0.8751	118858.3	144758.3	10000	134758.3	141539.3	2.6284	1
143.7454	124.4187	87.2003		6.9503	2.6702	3.1131	11472.35	4994.107	1324.55	2419.825	3498.869	833	9542.292	457.7077	0.8341	116386.6	142286.6	10000	132286.6	139067.6	3.0819	1
139.3806	136.1957	85.0902		7.6469	2.8716	3.321	10795.5	4843.181	1309.56	1957.021	3450.74	833	9424.081	575.9189	0.856	115257.1	141157.1	10000	131157.1	137938.1	3.2892	1
152.9701	117.9223	87.2013		6.1646	2.4741	2.9556	12020.33	5164.327	1341.457	2295.923	3983.625	833	10922.57	283.144	0.9256	116462.5	143568.2	11205.72	132362.5	139961.1	2.918	0
152.6907	115.5292	88.4136		5.8544	2.4214	2.878	12161.18	5231.541	1348.133	1985.558	4347.81	846.1367	11953.06	282.8541	0.9882	116192.7	144328.6	12265.91	132092.7	140389.9	2.8393	0
158.4476	95.2051	88.1099		5.0604	2.1638	2.498	12783.48	5403.581	1365.22	2524.52	4170.368	917.7914	11441.74	282.065	0.9383	118546	146169.8	11723.81	134446	142395.9	2.4712	0
146.3053	99.5454	88.5758		5.5499	2.2907	2.6347	11601.03	5297.528	1354.687	2147.739	3525.454	873.6203	9650.399	349.061	0.896	118953.2	144853.2	10000	134853.2	141634.2	2.611	1
147.7289	130.0816	87.7267		5.9033	2.5983	3.1389	11891.49	5220.957	1347.082	1729.941	4349.777	841.7286	11961.89	283.4288	1	114806.1	142951.4	12245.32	130706.1	139009.7	3.0926	0
145.0374	159.5035	85.8849		6.7275	2.9482	3.6548	11400.55	5042.37	1329.344	1762.603	4031.23	833	11085.89	284.6924	1	112648.2	139918.8	11370.58	128548.2	136258.6	3.5974	0
141.0599	155.5504	87.2628		7.4297	2.8927	3.5729	11309.25	4890.233	1314.233	1652.025	4217.755	833	11597.61	284.3737	0.9947	112747.9	140530	11882.05	128647.9	136705.1	3.5154	0
158.5449	136.9535	86.6691		5.367	2.6839	3.2651	12751.32	5337.152	1358.622	2499.207	4264.215	890.1238	11726.59	283.7373	1	114292.9	142203.2	12010.33	130192.9	138337.1	3.216	0
144.8348	88.1199	87.0354		5.7121	2.3323	2.3926	11401.2	5262.372	1351.195	2144.137	3382.515	858.9779	9250.28	749.7197	0.8784	120166	146066	10000	136066	142847	2.3884	1
148.9187	150.345	87.7991		6.558	2.8457	3.5036	11653.63	5079.106	1332.992	1914.402	4092.133	833	11253.37	284.3306	1	113340	140777.7	11537.7	129240	137063.7	3.4496	0
147.8147	89.085	88.1574		4.3206	2.1009	2.4051	11981.49	5563.876	1381.141	1955.766	3694.152	984.5541	10158.92	281.9784	1	119894.4	146235.3	10440.9	135794.4	142874.4	2.3834	0
144.7099	145.0789	87.0076		6.1658	2.7886	3.4193	11585.2	5164.07	1341.431	1766.281	4078.419	833	11215.66	284.1474	1	113810.7	141210.5	11499.8	129710.7	137508.7	3.368	0
149.1324	134.2893	86.6983		5.6038	2.6714	3.2465	11840.5	5285.843	1353.526	1940.758	3989.615	868.7538	10971.44	283.7918	1	114886.9	142042.1	11255.24	130786.9	138419.1	3.2009	0
138.3218	79.4491	87.0136		6.65	2.5568	2.1977	10807.62	5059.175	1331.013	2008.253	3174.182	833	8555.326	1444.674	0.6737	121072.1	146972.1	10000	136972.1	143753.1	2.2222	1
146.263	110.1758	86.7564		5.9145	2.385	2.8241	11699.75	5218.535	1346.841	2065.464	3826.196	840.7197	10451.8	282.9004	0.8596	117471.8	144106.5	10734.7	133371.8	140651	2.7914	0
144.5287	106.0564	86.854		5.7243	2.3379	2.7547	11465.78	5259.725	1350.932	1905.57	3689.676	857.8755	10095.61	282.7813	0.8875	118076.8	144355.2	10378.39	133976.8	141014.4	2.7247	0
141.9328	97.8372	86.7894		6.278	2.4775	2.5964	11146.98	5139.772	1339.018	2042.124	3391.067	833	9236.132	763.8684	0.8142	119077.5	144977.5	10000	134977.5	141758.5	2.5882	1
156.6637	134.1412	88.1578		5.7996	2.6444	3.2068	12555.52	5243.421	1349.313	2339.22	4370.48	851.0846	12018.83	283.5717	1	114409.2	142611.6	12302.4	130309.2	138651.5	3.1583	0
149.0586	123.9148	86.5679		6.4919	2.5599	3.082	11556.59	5093.417	1334.414	2089.057	3804.705	833	10420.15	283.4886	0.9042	116122.5	142726.1	10703.63	132022.5	139280.6	3.0428	0
154.3349	118.0101	85.604		4.6461	2.4818	2.9669	11915.85	5493.351	1374.137	1828.295	3862.884	955.1805	10622.93	283.2042	1	116600	143406.2	10906.14	132500	139895.5	2.93	0
154.0394	110.1509	86.1064		5.8491	2.3697	2.8016	12061.22	5232.698	1348.248	2148.434	4083.224	846.6188	11163.16	282.7717	0.8733	117120.2	144466.2	11445.93	133020.2	140781.7	2.7674	0
153.7685	168.5405	87.7867		4.9169	3.018	3.7578	12329.36	5434.678	1368.309	1854.786	4338.844	930.7432	11931.82	284.7993	1	111552.9	139669.5	12216.62	127452.9	135737	3.6931	0
141.1154	110.0836	87.0425		6.1389	2.4457	2.8442	11099.63	5169.914	1342.012	1826.788	3525.919	833	9625.144	374.8561	0.8489	117833.4	143733.4	10000	133733.4	140514.4	2.8164	1
152.9521	124.3389	88.4075		6.2078	2.5444	3.0592	11964.36	5154.97	1340.528	2115.207	4118.657	833	11325.87	283.3289	0.9976	115646.8	143156	11609.2	131546.8	139419	3.0175	0
153.7199	104.8188	87.104		5.5982	2.3205	2.729	12026.98	5287.05	1353.646	2421.402	3693.623	869.2564	10137.76	282.7182	0.9466	118185.6	144506.1	10420.47	134085.6	141151.8	2.6995	0
154.3563	217.878	86.9891		6.0953	3.4555	4.403	12103.81	5179.342	1342.948	1839.843	4506.675	833	12393.36	286.1448	1	107849.9	136429.4	12679.51	123749.9	132347.9	4.315	0
144.6726	100.6724	86.6442		5.4683	2.2696	2.654	11511.53	5315.201	1356.442	1955.231	3601.672	880.9813	9863.846	282.5757	0.9037	118766.4	144812.8	10146.42	134666.4	141546.7	2.627	0
148.8125	135.8514	87.2318		5.7975	2.6872	3.2699	11936.71	5243.867	1349.357	2065.637	4024.576	851.2707	11067.59	283.8321	1	114699.6	141951	11351.42	130599.6	138297	3.2233	0
138.2917	137.295	87.476		7.0572	2.7206	3.3191	10946.44	4970.942	1322.249	1626.086	3797.162	833	10386.69	284.0304	0.9058	114885.5	141456.2	10670.72	130785.5	138021.3	3.2739	0
147.7773	115.5042	87.4503		6.1017	2.4611	2.9363	11793.31	5178.124	1342.827	2350.115	3687.247	833	10116.7	283.1929	0.9392	117097.1	143397	10399.89	132997.1	140049.2	2.9018	0
140.2933	134.5045	86.3519		6.9958	2.7027	3.2926	11259.88	4984.248	1323.571	2147.178	3569.882	833	9777.074	284.0486	0.9043	115425.9	141387.1	10061.12	131325.9	138148.4	3.2506	0
14																						

TABLE 1

yield draws	crude oil price draws	corn acres draws	Mandate 10bg.Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
155.5382	152.047	85.846		6.5453	2.8667	3.5639	11812.78	5081.854	1333.265	2383.448	3779.214	833	10392.84	284.5851	1	113581.6	140159	10677.43	129481.6	136722	3.5123	0
145.7278	107.1431	87.1292		5.6035	2.3248	2.7355	11733.26	5285.915	1353.533	1658.708	4164.318	868.7836	11433.16	282.5949	0.9534	117292.1	144907.8	11715.75	133192.1	141136.5	2.7023	0
154.1187	124.1647	87.7617		5.5009	2.5444	3.0592	12299.5	5308.142	1355.741	2270.808	4084.764	878.0411	11233.11	283.3399	1	115707.9	143124.4	11516.45	131607.9	139417.2	3.0178	0
148.9055	132.2753	86.8414		6.6907	2.6429	3.2045	11668.26	5050.344	1330.136	1984.569	4068.216	833	11174.74	283.672	0.9647	114976.2	142334.6	11458.41	130876.2	138646.1	3.1593	0
145.8315	86.94	87.9889		5.544	2.2793	2.3677	11751.01	5298.797	1354.813	2407.759	3413.489	874.1489	9320.644	679.3557	0.853	120312	146212	10000	136212	142993	2.3616	1
153.7325	186.1876	87.0319		6.0221	3.2094	4.0399	12056.46	5195.208	1344.524	2184.755	4096.977	833	11266.69	285.5271	1	110492.2	137944.4	11552.22	126392.2	134225.8	3.9704	0
156.7696	146.2856	86.8464		3.5737	2.8097	3.4506	12618.14	5725.692	1397.213	2073.509	3967.777	1051.951	10911.39	284.2581	1	113844.3	140940	11195.65	129744.3	137336.1	3.3996	0
150.7935	147.3394	87.7322		6.8686	2.7922	3.4248	12181.9	5011.805	1326.308	2226.403	4382.386	833	12051.56	284.0479	1	113234.9	141470.5	12335.61	129134.9	137499.7	3.3696	0
140.6209	196.8901	87.6778		7.0052	3.3082	4.1856	11301.28	4982.198	1323.367	1658.736	4101.981	833	11280.45	285.8504	1	109712.7	137179	11566.3	125612.7	133455.8	4.1117	0
151.9794	124.1393	86.1247		5.7173	2.5495	3.0668	11936.68	5261.244	1351.083	2065.736	3998.115	858.5079	10994.82	283.3853	1	115824.8	143003	11278.2	131724.8	139372.6	3.026	0
143.0377	117.3491	87.9958		6.3135	2.4835	2.9694	11314.66	5132.072	1338.253	1871.791	3737.546	833	10165.78	283.2627	0.794	116888.6	143237.7	10449.05	132788.6	139874.1	2.9339	0
153.5044	141.1652	87.0917		5.3962	2.7222	3.216	12407.46	5330.814	1357.993	2025.457	4043.709	887.484	12110.2	283.813	1	113742	142036	12394.02	129642	138046.3	3.2693	0
156.6123	105.1128	86.1591		5.3725	2.3072	2.7094	12164.51	5335.953	1358.503	2182.931	3995.495	889.6246	10987.5	282.5838	0.9992	117726.1	144896.2	11270.08	133626.1	141268.4	2.6781	0
154.6597	170.5682	86.9873		7.3773	3.038	3.7873	11963.91	4901.581	1315.36	2168.792	4343.175	833	11943.73	284.8626	1	111389.3	139517.9	12228.6	127289.3	135581.5	3.7216	0
146.8763	116.8011	89.2287		6.0615	2.4487	2.9181	11846.7	5186.666	1343.676	1912.271	4169.09	833	11437.17	283.0014	0.9363	116321	14391.2	11720.17	132221	140168.5	2.9799	0
155.3237	116.7506	88.301		3.5456	2.4819	2.9671	12597.34	5731.795	1397.872	2415.029	3596.203	1054.493	9889.57	283.2894	1	117083.3	143516.2	10172.86	132983.3	139881.5	2.8266	0
154.3114	128.1341	87.2292		6.3271	2.5731	3.1016	12207.12	5129.123	1337.96	2120.95	4384.088	833	12055.3	283.3354	0.9958	114941.5	143180.2	12338.63	130841.5	139208.4	3.0561	0
146.5669	99.1042	87.4971		5.8227	2.3592	2.6245	11314.28	5231.916	1348.17	1997.465	3488.44	846.2929	9503.902	496.0978	0.8182	118979.5	144879.5	10000	134879.5	141660.5	2.6062	1
136.7217	124.2419	89.1753		7.2481	2.7584	3.108	10958.67	4929.576	1318.141	2046.449	3429.506	833	9363.795	636.2055	0.852	116378.2	142278.2	10000	132278.2	139059.2	3.0835	1
153.5487	73.3212	88.0706		4.021	1.8611	2.0515	12289.31	5628.794	1375.589	2075.055	3784.279	1011.593	10368.52	281.1563	0.9119	121636.1	148185.8	10649.68	137536.1	144757.6	2.0378	0
154.0896	120.7748	87.4743		4.5753	2.4977	2.9904	12111.7	5508.689	1387.566	1696.586	4167.196	961.5689	11459.8	283.1596	1	115923.4	143566.4	11742.96	131823.4	139786.3	2.9501	0
151.4416	126.5051	87.3864		4.976	2.5679	3.094	11786.12	5421.868	1367.037	1510.061	4159.747	925.4081	11439.31	283.3929	1	115387.5	143010.2	11722.7	131287.5	139236.7	3.0509	0
148.3404	173.0497	86.4082		6.1547	3.0913	3.8658	11660.2	5166.488	1341.671	1940.877	3976.16	833	10934.44	285.1881	1	111629.1	138748.8	11219.63	127529.1	135137.2	3.8031	0
137.345	194.7451	87.2952		8.3288	3.2852	4.1518	10773.29	4695.43	1294.885	1365.113	4142.86	833	11392.87	285.7565	1	109819.4	137398.1	11678.62	125719.4	133638.7	4.0781	0
155.9044	76.5584	87.5023		4.478	1.9648	2.1399	12229.92	5529.76	1377.753	2395.866	3554.201	970.3451	9633.404	366.5965	0.7455	121585.1	147485.1	10000	137485.1	144266.1	2.128	1
142.3457	132.1944	85.5237		6.797	2.6585	3.2275	11065.88	5027.321	1327.849	1656.096	3819.615	833	10478.54	283.8111	0.9365	115311.4	141973.8	10762.35	131211.4	138509.4	3.1844	0
149.9631	174.8505	86.4941		6.0763	3.1005	3.8794	12108.8	5183.459	1343.357	2260.193	4026.791	833	11238.68	285.1727	1	111359.6	138783.4	11523.85	127259.6	135073.9	3.8147	0
149.664	102.4947	87.2496		5.6192	2.2941	2.6901	11739.35	5282.498	1353.194	2206.487	3627.807	867.3603	9884.856	282.6562	0.8201	118560.2	144627.7	10167.51	134460.2	141354.8	2.6622	0
143.4146	114.5652	88.2046		5.963	2.4302	2.8908	11528.52	5208.022	1345.797	1735.188	4001.175	836.3413	10987.58	282.9912	0.9582	116763	143933.6	11270.57	132663	140305.6	2.8548	0
148.4654	171.6209	88.4131		6.6583	3.0386	3.7882	11866.33	5057.375	1330.834	1772.538	4470.581	833	12294.1	284.8128	1	111157	139635.9	12578.92	127057	135586.8	3.7206	0
142.6817	106.1077	85.4434		6.4224	2.5089	2.7642	10957.77	5108.484	1335.91	1816.935	3461.443	833	9396.499	603.5009	0.7665	118214.5	144114.5	10000	134114.5	140895.5	2.7465	1
149.0236	73.1486	87.6858		4.8677	2.0786	2.0597	12030.41	5445.326	1369.367	2455.511	3423.028	935.1782	9305.488	694.5121	0.7866	121950.7	147850.7	10000	137850.7	144631.7	2.061	1
155.5053	140.7484	87.1547		5.4425	2.7392	3.3466	12401.71	5320.79	1356.997	2351.358	4087.258	883.3091	11239.96	283.9815	1	114180.2	141604.2	11523.94	130080.2	137894.6	3.2972	0
146.7938	118.6196	87.902		6.4593	2.5237	3.0088	11458.68	5100.485	1335.116	2224.61	3563.474	833	9690.424	309.5763	0.7912	116970.1	142870.1	10000	132870.1	139651.1	2.9749	1
152.3841	110.2233	87.0864		5.376	2.3486	2.7705	12199.86	5335.205	1358.429	1774.039	4440.876	889.313	12212.41	282.5888	1	116590	144985	12495	132490	140962.9	2.7342	0
153.8192	126.3994	86.594		6.0087	2.5452	3.0605	12096.41	5198.122	1344.814	1821.35	4497.128	833	12367.1	283.2076	1	114953.7	143504	12650.31	130853.7	139431.8	3.0151	0
135.2764	147.4693	87.6946		8.0885	2.9648	3.5125	10525.19	4747.491	1300.055	1735.015	3507.627	833	9495.054	504.9459	0.7286	114253.2	140153.2	10000	130153.2	136934.2	3.4734	1
147.3177	105.7155	89.1259		5.1396	2.3209	2.7297	12027.99	5386.41	1363.515	2072.924	3892.497	910.6398	10704.37	282.6595	1	117806.1	144693.1	10987.03	133706.1	141156.4	2.6986	0
152.7607	112.9546	87.5582		5.0675	2.4049	2.8535	12477.93	5402.049	1365.068	2315.965	4075.7	917.1533	11208.18	282.8829	1	116815.2	144206.2	11491.06	132715.2	140507.3	2.8178	0
143.278	140.3393	87.7094		5.438	2.743	3.3521	11499.85	5321.77	1357.095	1571.48	3963.789	883.7173	11239.96	284.0381	1	114373.3	141457.8	11184.46	130273.3	137857.5	3.304	0
151.3895	107.8396	88.6626		5.6003	2.34	2.7579	12044.78	5286.603	1353.602	2080.539	4052.964	869.07	11139.66	282.6764	0.9806	117367.8	144690.2	11422.34	133267.8	141013.3	2.7249	0
135.5419	124.284	85.6711		7.7623	2.8938	3.1061	10218.7	4818.174	1307.076	1519.191	3339.259	833	9097.111	902.8889	0.8176	116336	142236	10000	132236	139017	3.0219	0
139.7169	78.9556	88.3157		5.1676	2.1672	2.1918	11500.15	5380.355	1362.913	2030.437	3416.327	908.118	9307.148	692.8517	0.8177	121246.5	147146.5	10000	137146.5	143927.5	2.1902	1
150.9927	83.4129	87.4391		3.9814	1.9986	2.2543	12225.01	5637.36	1388.44	1677.831	4104.22	1015.161	11286.61	281.5357	1	119943.1	147411.2	11568.14	135843.1	143687.4	2.2342	0
145.2952	123.4715	86.0678		6.6844	2.5862	3.0972	11227.44	5051.718	1330.272	2048.516	3561.932	833	9685.141	314.8587	0.7896	116499	142399	10000	132399	139180	3.0613	1
149.8274	151.0518																					

TABLE 1

yield draws	crude oil price draws	corn acres draws	Mandate 10bg, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
147.0058	139.6723	85.7791		7.1505	2.742	3.3506	11284.15	4950.733	1320.242	1892.59	3885.581	833	10633.56	284.0697	0.8906	114556.3	141373.9	10917.63	130456.3	137859.5	3.3036	0
150.667	100.5071	86.8748		5.456	2.2525	2.6288	12187.06	5317.874	1356.708	2336.98	3891.404	882.0944	10618.64	282.4407	0.8426	118399	145200.1	10901.08	134299	141691.1	2.6005	0
147.3853	96.7233	87.3008		5.3156	2.2137	2.5714	11794.67	5348.286	1359.728	2148.969	3640.929	894.6711	9937.003	282.3794	0.8456	119157.2	145276.6	10219.38	135057.2	141987	2.5462	0
148.071	146.2256	87.1487		6.0806	2.7866	3.4166	11751.78	5182.541	1343.266	1703.539	4287.439	833	11790.46	284.0646	1	113449.3	141423.8	12074.52	129349.3	137357	3.3628	0
146.3889	96.216	88.349		4.9687	2.193	2.541	11518.11	5423.448	1367.194	1529.076	3870.327	926.0659	10643.37	282.2398	0.9997	118849.3	145674.9	10925.6	134749.3	142157.9	2.5149	0
153.5682	125.8257	87.2027		5.9516	2.5354	3.0461	12199.3	5210.491	1346.042	1860.083	4543.311	837.3697	12494.11	283.1609	1	114946.2	143623.5	12777.27	130846.2	139510.5	3.0007	0
147.8641	83.2664	87.6044		5.3164	2.2108	2.2879	11741.88	5348.11	1359.711	2308.286	3429.091	894.6876	9348.831	651.1693	0.8289	120742.7	146642.7	10000	136642.7	143423.7	2.2826	1
154.0032	156.1308	87.9136		6.7095	2.8893	3.5679	12078.76	5046.267	1329.731	2119.558	4348.207	833	11957.57	284.3765	1	112539.5	140681.5	12241.95	128439.5	136740.8	3.5089	0
148.6612	117.5	87.0383		6.0967	2.4728	2.9536	11626.82	5179.055	1342.92	1959.822	3910.019	833	10740.68	283.1606	0.9657	116592.9	143516.7	11023.84	132492.9	139968.2	2.9167	0
144.2055	119.0385	87.9178		5.8106	2.5005	2.9945	11564.2	5241.027	1349.075	1953.625	3768.386	850.0875	10363.06	283.2968	1	116625.2	143171.6	10646.36	132525.2	139744.5	2.9577	0
147.0791	128.5288	86.9334		4.6512	2.6122	3.1592	11876.11	5492.233	1374.025	1803.745	3849.388	954.7148	10585.82	283.6432	1	115603.6	142373.1	10869.46	131503.6	138874.2	3.1174	0
146.6832	138.1092	87.5748		5.0828	2.7315	3.3351	11824.64	5398.722	1364.738	1987.884	3755.53	915.7676	10327.71	284.0745	1	114838.9	141350.7	10611.78	130738.9	137934.7	3.2898	0
144.4342	109.6524	87.6415		6.687	2.6024	2.8329	11582.33	5051.151	1330.216	2559.638	3406.326	833	9304.742	695.2585	0.8594	117831.2	143731.2	10000	133731.2	140512.2	2.8169	1
147.2819	142.9233	88.0936		6.8785	2.7455	3.3559	11932.99	5009.66	1326.095	2009.982	4352.251	833	11968.4	283.907	0.9983	113653.7	141806	12252.31	129553.7	137862	3.3031	0
145.1623	109.1072	87.0908		6.3969	2.497	2.8253	11079.09	5114.002	1336.458	1886.856	3506.776	833	9500.132	499.8676	0.7389	117909.7	143809.7	10000	133809.7	140590.7	2.8024	1
141.4162	176.3231	87.3357		6.7817	3.1157	3.9018	11477.04	5030.627	1328.177	1805.109	4078.122	833	11214.84	285.2265	1	111256.4	138656.5	11500.06	127156.4	134954.6	3.1166	0
144.0531	134.0357	87.8737		6.6291	2.6497	3.2147	11611.96	5063.699	1331.462	1709.501	4272.294	833	11746.18	283.6232	0.9903	114546.7	142476.5	12029.8	130446.7	138604.1	3.167	0
148.2518	130.7545	85.2388		6.5555	2.6342	3.1917	11405.62	5079.648	1333.046	1836.541	3921.383	833	10782.34	283.6921	0.9935	115302.1	142268.1	11066.03	131202.1	138705.9	3.1483	0
146.2887	71.3458	88.0588		4.8349	2.0761	2.0176	11937.88	5452.448	1370.074	2381.124	3394.091	938.1446	9254.687	745.3129	0.8311	122165.6	148065.6	10000	138065.6	144846.6	2.0215	1
148.4727	179.7034	87.216		4.6573	3.1744	3.9883	11803.01	5490.924	1373.896	1825.481	3756.54	954.1698	10330.48	285.5572	1	111371	137887.1	10616.04	127271	134469.8	3.9256	0
146.3847	179.2161	88.0982		6.1638	3.1678	3.9785	11799.6	5164.514	1341.475	2278.974	3779.634	833	10394	285.5253	1	111381.6	137961.2	10679.52	127281.6	134523.4	3.9158	0
151.2043	96.9746	88.1803		5.3278	2.2128	2.5701	12099.66	5345.637	1359.465	2370.497	3728.407	893.6579	10160.01	282.3541	0.8217	119015.8	145358.2	10442.36	134915.8	141996.8	2.5444	0
144.3797	107.767	86.1255		5.6719	2.3443	2.7641	11302.82	5271.082	1352.06	1448.946	3966.127	862.6057	10888.84	282.7174	0.953	117501	144572.5	11171.56	133401	140976.4	2.7317	0
134.1981	92.7468	85.812		8.4856	3.0878	2.4802	10197.73	4661.453	1291.51	2105.951	2903.816	833	7892.566	2107.344	0.7841	119438.3	145338.3	10000	135338.3	142119.3	2.522	1
151.0663	150.5593	85.6536		5.8753	2.8515	3.5121	11665.72	5227.012	1347.683	1801.057	4043.722	844.2505	11120.24	284.3679	1	113381.7	140686.3	11404.6	129281.7	137015.2	3.4585	0
147.814	95.0327	87.9451		5.7304	2.3214	2.5403	11780.18	5258.411	1350.802	2432.309	3479.332	857.3281	9466.45	533.5496	0.7985	119420.3	145320.3	10000	135320.3	142101.3	2.5253	1
143.6827	170.5213	87.0657		8.0899	3.074	3.8402	11281.08	4747.197	1300.026	2126.362	3872.498	833	10646.83	285.1737	0.9898	111951	138783	10932	127851	135264	3.7799	0
153.6486	128.0847	86.6843		5.2062	2.6035	3.1464	11948.57	5371.989	1362.082	2006.376	3901.485	904.6332	10729.08	283.5966	1	115577.4	142490.1	11012.68	131477.4	138945.1	3.1094	0
148.2154	113.6448	86.1833		5.5689	2.4197	2.8754	11570.77	5293.395	1354.276	1675.418	3973.783	871.8988	10927.91	282.9632	1	116884.5	143995.3	11210.87	132784.5	140386.6	2.8399	0
148.9523	144.5848	87.5082		5.8908	2.7632	3.3821	12062.51	5223.67	1347.351	1884.261	4362.367	842.8586	11996.51	283.9611	1	113496.7	141677.2	12280.47	129396.7	137724.1	3.3285	0
154.983	128.1956	87.5983		6.3388	2.59	3.1266	12262.53	5126.595	1337.709	2431.765	4131.46	833	11361.35	283.475	0.9989	115266.2	142811.1	11644.82	131166.2	139062.6	3.0828	0
153.789	149.3452	87.4082		4.706	2.8473	3.5059	12481.5	5480.359	1372.846	2360.695	3915.835	949.7694	10768.55	284.402	1	113644.3	140597.3	11052.95	129544.3	137039.3	3.4541	0
151.9295	85.8726	85.9022		4.6316	2.0336	2.3059	12034.17	5496.477	1374.447	1666.852	4137.907	956.4828	11335.2	281.6467	0.9082	119636.5	147153.3	11616.85	135536.5	143413.8	2.2844	0
152.4272	159.354	86.4574		4.9943	2.9606	3.673	11950.43	5417.908	1366.643	1997.457	3842.664	923.7585	10567.33	284.8075	1	112889.2	139641.4	10852.14	128789.2	136148.1	3.6176	0
149.7803	134.2462	88.3377		5.4435	2.6587	3.2278	11258.97	5320.565	1356.975	2022.835	4173.376	883.2152	11476.78	283.6863	1	114654	142314.4	11760.47	130554	138528.8	3.1808	0
143.3843	108.9103	87.1798		6.6323	2.5756	2.8187	11298.32	5062.994	1331.392	2239.236	3429.697	833	9338.227	661.7728	0.8092	117913	143813	10000	133813	140594	2.8018	1
139.2288	170.4465	86.8955		8.0062	3.0492	3.8037	10980.09	4765.316	1301.826	1494.264	4183.687	833	11502.31	284.9645	0.9896	111588.9	139276.2	11787.28	127488.9	135481.9	3.7399	0
153.5437	174.0728	87.4849		6.8182	3.0659	3.8285	12338.61	5022.726	1327.393	2323.039	4430.455	833	12183.75	284.9177	1	111016	139384.6	12468.67	126916	135371	3.7602	0
151.9356	135.8788	87.4296		6.1791	2.6596	3.2292	12008.17	5161.194	1341.146	1827.509	4443.327	833	12219.15	283.5958	1	114159.2	142561.9	12502.75	130059.2	138537.3	3.1792	0
145.1429	139.5772	88.6283		4.6715	2.7182	3.3156	11703.68	5487.837	1373.589	2487.354	4245.982	952.8842	11698.28	283.8584	1	114140	142022.1	11939.8	130040	138068.6	3.2652	0
155.5501	143.1082	86.0114		6.877	2.7356	3.3414	12112.11	5009.988	1326.127	2016.793	4524.198	833	12440.7	283.8135	0.9962	113420.7	142045.2	12724.52	129320.7	137949.2	3.8272	0
154.2464	173.3538	87.1587		4.5004	3.1031	3.8832	12310.17	5254.924	1377.272	2174.364	3863.283	968.3308	10624.03	285.2742	1	111738	138547.3	10909.3	127638	135035.6	3.2818	0
142.9881	189.2301	86.9935		5.6556	3.2235	4.0609	11456.58	5274.613	1352.411	1290.934	4272.549	864.0764	11749.51	285.4974	1	110069.6	138004.6	12035.01	125969.6	134130.6	3.9878	0
150.0368	111.6461	86.5388		5.8858	2.4124	2.8646	11602.36	5224.733	1347.457	2122.706	3662.162	843.3012	10060	283.0358	0.9662	117515.9	143758.9	10343.04	133415.9	140429.5	2.832	0
142.8926	84.4054	86.3542		5.7192	2.3039	2.3117	11282.96	5260.849	1351.044	2006.326	3404.401	858.3434	9198.874	801.1263	0.7051	120586.9	146486.9	10000	136486.9	14326		

TABLE 1

yield draws	crude oil price draws	corn acres draws	Mandate 10bg, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
153.3046	110.8052	86.5941		5.7779	2.3814	2.8189	12155.38	5248.128	1349.78	2294.194	4008.235	853.0454	11010.68	282.8271	0.9662	117129.7	144323.2	11293.51	133029.7	140687.8	2.7846	0
136.3876	116.0134	89.0039		6.9354	2.6692	2.9551	10908.33	4997.32	1324.869	1930.765	3420.371	833	9335.848	664.152	0.8469	117186.8	143086.8	10000	133086.8	139867.8	2.9351	1
155.9452	111.4736	87.4705		3.7198	2.4034	2.8512	12323.9	5694.045	1394.07	2019.74	3775.272	1038.77	10382	282.9696	1	117373.9	143938.9	10664.97	133273.9	140505.8	2.818	0
153.0581	157.8629	87.2036		5.266	2.9128	3.6026	12185.95	5359.025	1360.795	1887.912	4276.983	899.2338	11761.71	284.4804	1	112484.1	140430.3	12046.19	128384.1	136552.6	3.5434	0
142.399	158.0368	87.5172		7.4844	2.9135	3.6036	11108.2	4878.389	1313.057	1388.978	4292.773	833	11804.31	284.4767	0.9962	112450.9	140439.7	12088.79	128350.9	136548.4	3.5442	0
150.7108	145.0312	86.3429		5.1285	2.782	3.4098	11828.07	5388.824	1363.755	1597.718	4164.133	911.6453	11451.37	284.0946	1	113707.2	141342.7	11735.46	129607.2	137565.1	3.3576	0
143.7038	121.9366	87.5385		4.596	2.5172	3.0192	11383.7	5504.191	1375.213	1060.552	4082.048	959.6957	11225.64	283.2514	1	115924.8	143333.7	11508.89	131824.8	139629	2.9789	0
155.0692	94.0385	86.4955		5.0823	2.1573	2.4884	12123.04	5398.825	1364.748	2049.79	3991.863	915.8106	10924.76	282.0937	0.8912	118941.5	146048.4	11206.86	134841.5	142440.9	2.463	0
140.3602	132.3493	88.1088		7.4161	2.8273	3.2538	11083.23	4893.168	1314.525	2203.005	3437.529	833	9421.842	578.158	0.9187	115613.9	141513.9	10000	131513.9	138294.9	3.2237	1
138.8607	144.825	86.92		7.888	2.9184	3.4689	10669.25	4790.926	1304.37	1830.501	3508.458	833	9528.12	471.8798	0.7724	114491.3	140391.3	10000	130391.3	137172.3	3.4297	1
149.9212	142.0528	87.6947		6.8422	2.7118	3.3063	11857.14	5017.529	1326.876	1577.638	4700.097	833	12922.38	283.6746	0.9903	113290.1	142396.2	13206.06	129190.1	138145.1	3.2512	0
149.6739	99.3171	87.3412		5.3856	2.2378	2.6071	11873.02	5333.115	1358.221	2035.447	3855.799	888.4422	10538.04	282.3999	0.868	118567.8	145288.2	10820.44	134467.8	141805.1	2.5796	0
149.6465	141.6696	87.844		5.1248	2.759	3.3758	11705.86	5389.626	1363.834	1687.56	3950.863	911.9791	10864.88	284.0961	1	114271.3	141320.3	11148.97	130171.3	137731.4	3.3271	0
147.4892	162.9755	87.7909		4.6804	2.9867	3.7115	11751.44	5485.912	1373.398	1535.876	4002.175	952.0825	11005.99	284.8311	1	112399.7	139590.5	11290.82	128299.7	135956	3.6529	0
148.7127	100.2528	87.8277		5.1324	2.2483	2.6225	11778.37	5387.989	1363.672	1837.555	3875.857	911.2973	10658.6	282.4224	0.9999	118405.8	145246.8	10941.03	134305.8	141724.9	2.5943	0
141.0132	93.4385	88.2816		5.5548	2.2936	2.5071	11161.56	5296.463	1354.581	1774.507	3460.834	873.1769	9476.969	523.0312	0.9015	119599.2	145499.2	10000	135499.2	142280.2	2.4924	1
138.2625	155.8387	87.1703		7.681	2.9157	3.6068	10907.51	4835.79	1308.826	1575.249	3952.645	833	10848.45	284.6181	0.9462	113057.4	140090.5	11133.07	128957.4	136506.7	3.5518	0
158.4731	192.2717	86.9334		4.4293	3.2354	4.0784	12786.75	5540.313	1378.801	2022.803	4468.09	974.7405	12287.25	285.4508	1	109629.5	138102.2	12572.7	125529.5	134055.1	4.0017	0
148.0135	125.0056	87.29795	Average	6.004899	2.595032	3.058599	11703.81	5198.938	1344.895	1999.228	3892.046	867.9575	10668.15	382.9616	0.927793	116002	142953.1	11051.07	131902	139395.6	3.021736	0.240685

TABLE 1

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
149.3976	153.238	87.0669		7.1206	2.8312	3.4825	12054.91	4957.196	1320.884	1817.45	4724.379	833	12992.01	284.0473	0.9997	112315.3	141491.4	13276.05	128215.3	137217.8	3.4214
150.9763	134.3386	88.7765		5.7875	2.6536	3.2204	12186.37	5246.042	1349.573	2070.571	4266.005	852.1763	11731.52	283.6377	1	114526.1	142441.3	12015.15	130426.1	138573.6	3.1726
143.4316	98.2405	87.4119		5.7884	2.3314	2.6203	11237.42	5245.856	1349.555	2036.73	3351.179	852.0988	9093.634	447.405	0.7612	119317.1	144758.2	9541.039	135217.1	141686.9	2.6013
154.0182	87.8167	88.4692		4.6774	2.0718	2.3623	12350.3	5486.566	1373.463	2220.447	3951.465	952.3547	10761.603	281.8254	0.9787	119720.5	146663.4	11042.85	135620.5	143108.7	2.3404
155.6236	130.9441	87.9271		4.6558	2.6355	3.1935	12414.2	5491.24	1373.927	2256.731	3936.006	954.3014	10824.02	283.6912	1	115264.7	142272.5	11107.71	131164.7	138696.9	3.15
144.0749	134.3943	86.8879		6.8877	2.6706	3.2453	11517.93	5007.66	1325.896	1911.544	4037.83	833	11055.89	283.7784	0.8997	114837.7	142077.4	11339.67	130737.7	138427.2	3.1994
157.9638	107.4119	88.03		3.5783	2.3247	2.7352	12805.52	5724.696	1397.114	2007.285	4222.892	1051.536	11612.96	282.5751	1	117174.3	144969.8	11895.53	133074.3	141140.6	2.7015
148.4493	142.1046	87.0739		6.7808	2.7592	3.3761	11713.67	5030.83	1328.198	2100.265	4019.381	833	11053.3	284.0721	1	114146.1	141383.5	11337.37	130046.1	137734	3.3266
140.9131	163.9635	88.7388		8.06	3.0048	3.7382	11105.31	4753.661	1300.668	1902.915	3913.065	833	10717.74	284.9331	0.9056	112445.5	139348.2	11002.67	128345.5	135806.4	3.6803
151.3027	115.6253	86.7323		6.0523	2.4492	2.9188	11684.29	5188.662	1343.874	2005.162	3911.594	833	10734.71	283.0828	0.944	116781.7	143699.5	11017.79	132681.7	140152.9	2.8828
144.9954	122.0301	87.4763		6.4537	2.5462	3.0617	11414.05	5101.692	1335.236	2090.295	3651.823	833	9996.152	283.4933	0.8947	116509.4	142689	10279.65	132409.4	139380	3.0246
139.5499	108.9955	87.0647		6.1205	2.4521	2.8322	10910.13	5173.883	1342.406	1766.099	3392.745	833	9287.492	403.1332	0.8957	118096.8	143687.5	9690.625	133996.8	140568	2.8066
138.3716	151.9983	87.6487		7.2761	2.8475	3.5064	11063.49	4923.514	1317.539	1270.973	4316.464	833	11869.01	284.2526	0.9466	112923	140976.2	12153.26	128823	137064.1	3.4496
139.4801	95.5514	88.1259		5.4202	2.2375	2.5577	11086.67	5325.63	1357.478	1639.829	3476.413	885.3251	9469.107	346.8904	0.815	119486.1	145202.1	9815.997	135386.1	142042.4	2.5361
144.6487	117.7522	87.1718		5.4605	2.4662	2.944	11595.24	5316.889	1356.61	1571.685	4066.377	881.6842	11182.52	283.0882	1	116352.3	143717.9	11465.61	132252.3	140027.1	2.9059
139.1734	68.3946	85.5808		5.4675	2.216	2.0065	10572.45	5315.369	1356.459	2281.375	2337.999	881.0511	6235.746	1032.634	0.5525	124043.4	147211.8	7268.379	139943.4	144872.1	2.0168
152.0039	87.3776	87.7827		4.9837	2.1086	2.3832	11968.77	5420.199	1366.871	2341.673	3513.318	924.7129	9539.614	325.9053	0.7699	120386.5	146152.1	9865.519	136286.5	142976.4	2.3647
158.1802	146.8442	87.9729		3.3502	2.812	3.4539	12864.94	5774.119	1402.023	2190.743	4023.931	1072.12	11065.81	284.2448	1	113725.6	140975.7	11350.06	129625.6	137322.1	3.4022
145.0376	141.4828	86.9308		6.5434	2.7262	3.3274	11550.06	5082.268	1333.307	1501.326	4398.158	833	12094.94	283.8278	1	113721.2	142000	12378.76	129621.2	138015.3	3.275
137.3051	99.4768	87.8318		6.291	2.4624	2.66	10739.88	5136.951	1338.738	1942.626	3086.561	833	8340.764	650.5127	0.7062	119436.9	144328.2	8991.277	135336.9	141433.9	2.6477
157.0183	134.6131	85.8616		6.5865	2.6443	3.2067	12194.25	5072.931	1332.379	2099.073	4054.862	833	12249.36	283.5425	0.9939	114258.5	142691.4	12532.9	130158.5	138657.4	3.1573
148.1074	112.8532	87.4783		5.994	2.4081	2.8583	11513.05	5201.296	1345.129	1706.305	4024.778	833.5398	10996.44	282.9171	0.8628	116930.1	144109.4	11279.35	132830.1	140478.6	2.823
140.1639	195.2319	87.5491		7.7438	3.2785	4.142	11281.23	4822.174	1307.473	1641.67	4274.914	833	11756.02	285.6761	1	109636.7	137578.4	12041.7	125536.7	133702.2	4.0664
155.3134	126.5133	86.7112		5.1402	2.5509	3.0689	12644.2	5386.289	1363.503	2152.685	4429.135	910.5893	12180.12	283.2483	1	115032.5	143395.9	12463.37	130932.5	139384	3.0239
147.6712	101.0302	86.6095		5.5482	2.2734	2.6595	11642	5297.884	1354.722	2071.209	3642.412	873.7685	9921.551	282.5824	0.8155	118698.5	144802.6	12040.13	134598.5	141517.9	2.6323
154.7548	72.9442	86.6623		4.2569	1.9152	2.0641	12211.16	5577.672	1382.512	2443.616	3415.064	990.3004	9316.619	369.9407	0.8389	122199.1	147785.7	9686.56	138099.1	144667.6	2.0544
145.8128	131.1625	87.5276		6.4707	2.6327	3.1894	11665.52	5098.018	1334.871	1878.903	4018.725	833	11051.4	283.6536	0.9993	115137.1	142372.2	11335.05	131037.1	138723.4	3.1451
151.4643	147.6451	86.5202		5.8523	2.8204	3.4663	12019.52	5313.994	1348.178	2160.153	4030.875	846.3254	11084.91	284.27	1	113647.7	140916.9	11369.18	129547.7	137257.1	3.4141
146.8922	132.9313	86.2498		6.8131	2.664	3.2356	11416.76	5023.83	1327.502	1961.546	3868.884	833	10614.71	283.8123	0.9385	115179.1	141977.6	10898.52	131079.1	138469.4	3.1917
153.5234	129.9593	87.8296		5.4963	2.6093	3.155	12192.8	5309.139	1355.84	2088.689	4158.682	878.4562	11436.38	283.5291	1	115066.5	142686.4	11719.9	130966.5	138913.7	3.1102
156.9089	142.5046	87.5687		6.9085	2.7482	3.3599	12228.33	5003.166	1325.45	2420.239	4244.48	833	11671.76	283.9548	0.9971	113826.6	141682.3	11955.72	129726.6	137833.8	3.3083
144.6961	127.2633	87.2995		4.8375	2.6073	3.152	11337.93	5451.864	1370.016	1490.242	3685.909	937.9015	10136.26	283.6822	1	115937.3	142257.3	10419.94	131837.3	138903.1	3.1121
153.7661	128.4629	86.8128		5.1823	2.5978	3.138	12163.94	5377.162	1362.596	2054.246	4061.144	906.788	11168.15	283.524	1	115333.1	142684.8	11451.67	131233.1	138998.5	3.0946
153.5561	102.5235	86.6377		5.411	2.2773	2.6653	11973.41	5327.627	1357.676	2086.744	3913.201	886.1568	10750.69	282.5094	0.9687	118117.6	145050.8	11033.2	134017.6	141499.2	2.6357
153.8637	112.6884	87.3043		5.7261	2.3857	2.8252	11948.47	5259.345	1350.894	1733.048	4345.47	857.7172	11947.06	282.7382	0.9894	116476.1	144605.9	12229.8	132376.1	140669.1	2.7881
140.5267	154.1907	87.3376		7.887	2.9212	3.6148	11016.43	4791.142	1304.391	2019.555	3666.339	833	9966.62	284.7606	0.7861	113589.2	139740.6	10251.38	129489.2	136440.7	3.564
139.5279	146.07	87.3238		7.4337	2.836	3.4891	10748.11	4889.358	1314.146	1740.485	3569.125	833	9786.935	284.4978	0.9274	114374.5	140345.9	10071.43	130274.5	137103.9	3.4422
147.2167	161.6265	87.9868		7.0778	2.9467	3.6526	11582.21	4966.474	1321.806	1709.953	4348.975	833	11959.69	284.5631	1	112090.5	140234.8	12244.25	127990.5	136293.4	3.591
153.7958	87.5213	86.9924		4.543	2.055	2.3376	12183.26	5515.676	1376.354	1754.819	4169.934	964.4792	11466.87	281.7053	0.9976	119380.5	147029.1	11748.58	135280.5	143247.2	2.315
142.4852	132.8787	87.5112		6.9925	2.6789	3.2575	11211.76	4984.958	1323.641	2010.343	3657.814	833	9966.696	283.944	0.8203	115488.3	141638.9	10250.64	131388.3	138339.2	3.2156
148.9481	111.437	89.1041		5.6323	2.3911	2.8332	12013.92	5279.666	1352.913	2135.564	3977.597	866.1809	10938.37	282.8672	0.9997	117101.6	144222.9	11221.23	133001.6	140610.7	2.7988
149.6143	134.4663	87.1196		6.9243	2.6742	3.2507	11357.29	4999.733	1325.109	1796.963	4000.482	833	10939.82	283.8052	0.8777	114885.5	142009.1	11223.62	130785.5	138396.2	3.2051
152.5807	121.2804	88.6289		4.5188	2.5329	3.0423	12131.79	5520.918	1376.875	2167.811	3697.528	966.6624	10168.2	283.4284	1	116499.6	142851.2	10451.63	132399.6	139486.9	3.005
146.544	157.2633	88.1741		6.6684	2.9181	3.6104	11493.88	5055.19	1330.617	1754.246	4118.829	833	11326.78	284.5589	1	112726.4	140237.7	11611.34	128626.4	136500	3.5531
152.8763	112.577	87.0478		5.5674	2.4076	2.8575	12011.58	5293.737	1354.31	2142.743	3946.748	872.0412	10853.56	282.9313	1	117028.5	144065	11136.49	132928.5	140480.2	2.8227
147.7709	152.2561	87.0674		6.0474	2.8968	3.5789	11543.42	5189.736	1343.981	2105.242	3669.457	833	10901.01	284.16612	1	113699	139974.6				

TABLE 1

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
149.2147	88.0786	86.8911		4.8303	2.0873	2.385	11876	5453.438	1370.172	2020.541	3691.291	938.5571	10105.46	281.9376	0.8969	120037	146324.4	10387.4	135937	142980.7	2.3639
148.1496	111.7586	86.3496		5.97	2.409	2.8595	11329.68	5206.509	1345.647	1780.08	3759.733	835.7111	10290.97	282.9986	0.8937	117390	143864	10573.97	133290	140460.2	2.8264
156.8153	125.1213	87.2528		5.7618	2.5325	3.0418	12668.49	5251.619	1350.127	2354.407	4455.841	854.4991	12253.56	283.1801	1	115127.4	143564.1	12536.74	131027.4	139528.5	2.9973
141.4872	149.0365	87.575		7.3066	2.8292	3.4793	11397.43	4916.894	1316.881	1803.737	4124.919	833	11335.62	284.2652	0.9762	113414.6	140934.5	11619.89	129314.6	137194.1	3.4257
144.1895	104.7672	86.9868		6.2036	2.4644	2.7576	11475.38	5155.891	1340.619	2508.78	3235.093	833	8832.444	525.5631	0.8511	118693.4	143951.4	9358.008	134593.4	140939	2.7385
145.5094	114.4849	87.0839		6.4415	2.5172	2.9372	11352.08	5104.348	1335.5	2240.836	3436.393	833	9339.692	391.492	0.7833	117513.1	143144.3	9731.184	133413.1	140011.9	2.9087
151.9111	123.331	87.5112		4.3582	2.5249	3.0306	12352.73	5555.715	1380.331	1801.349	4232.176	981.1553	11638.49	283.2281	1	115592.2	143413.9	11921.71	131492.2	139576.3	2.9886
145.5125	87.9992	88.6169		4.741	2.0703	2.3601	11708.76	5472.791	1372.095	1507.287	4007.968	946.6176	10991.95	281.7992	0.9304	119577.9	146751.6	11273.75	135477.9	143122.6	2.3379
140.5736	105.9366	86.3352		5.9242	2.3856	2.7689	10715.46	5216.425	1346.631	1449.853	3460.708	839.841	9447.748	356.9801	0.8499	118367.1	144071.9	9804.728	134267.1	140915.7	2.7428
154.5385	136.8717	86.7884		6.6716	2.6708	3.2457	12220.09	5054.485	1330.547	2154.144	4445.916	833	12224.97	283.6314	0.9946	114067.9	142476.5	12508.6	129967.9	138449.9	3.1953
141.1434	116.9603	87.8597		6.059	2.4731	2.954	11229.67	5187.219	1343.731	1674.233	3789.485	833	10415.62	283.199	0.981	116805.2	143404	10698.82	132705.2	139960.1	2.9182
147.5899	162.9124	87.4625		6.1548	2.9792	3.7005	11654.76	5166.457	1341.668	1818.973	4092.664	833	11254.83	284.7705	1	112295.9	139735.5	11539.6	128195.9	136020.9	3.641
137.7406	124.4174	87.4588		6.7673	2.6332	3.1211	11211.41	5033.761	1328.489	2084.808	3439.355	833	9411.646	374.968	0.8892	116501.1	142187.7	9786.614	132401.1	139037.4	3.0875
143.2957	142.7005	87.2719		7.2362	2.7944	3.4278	11488.83	4932.146	1318.396	2390.643	3612.643	833	9919.959	284.3396	0.9566	114613.3	140717.6	10204.3	130513.3	137432.8	3.3819
143.2929	122.7861	86.3155		6.4837	2.5616	3.0846	10906.08	5095.19	1334.59	1691.78	3549.524	833	9727.747	283.5777	0.9166	116564.9	142476.2	10011.32	132464.9	139253.6	3.0478
151.9717	110.7879	86.813		5.9813	2.4168	2.8597	11400.09	5204.049	1345.402	2086.425	3527.524	834.6862	9663.958	297.9766	0.9098	117790.9	143652.8	9961.935	133690.9	140446	2.829
151.3739	107.5761	87.0107		5.7258	2.3413	2.7597	12067.07	5259.413	1350.901	2211.005	3986.009	857.7456	10913.44	282.7047	0.8988	117508.3	144604.4	11196.15	133408.3	141004.4	2.7273
136.1197	117.0685	87.6172		7.2702	2.7293	3.0083	10914.82	4924.78	1317.664	2377.46	3059.918	833	8252.073	711.0835	0.6807	117586.5	142449.6	9863.156	133486.5	139564.4	2.9908
134.8637	129.708	88.3075		7.1611	2.7176	3.2188	10747.01	4948.429	1320.013	1820.513	3423.059	833	9302.264	410.6012	0.7815	116022.7	141635.6	9712.865	131922.7	138509	3.1844
147.0606	102.9345	87.8629		5.1514	2.2599	2.6398	11819.69	5383.855	1363.261	1436.382	4324.612	909.5758	11892.68	282.3344	1	117494.4	145569.4	12175.02	133394.4	141650.3	2.608
138.0171	111.8329	87.678		6.959	2.5663	2.8969	10720.63	5070.211	1332.109	1847.058	3236.255	833	8811.549	540.5055	0.8093	117952.2	143204.3	9352.054	133852.2	140193.9	2.8753
142.6514	98.7451	86.4669		5.6579	2.3025	2.6261	11443.58	5274.123	1352.362	1821.451	3429.773	863.8722	9336.541	383.3713	0.8063	119179	144798.9	9719.912	135079	141670.1	2.6044
156.7515	99.5053	87.3241		4.918	2.2306	2.5964	12427.15	5434.443	1368.286	2276.486	4015.289	930.6457	11042.05	282.3247	1	118289.5	145513.9	11324.37	134189.5	141868.6	2.568
154.6372	132.2082	87.0574		4.1005	2.6529	3.2192	12239.57	5611.563	1385.878	1936.796	3898.92	1004.416	10722.03	283.7614	1	115195.5	142101.3	11005.79	131095.5	138558.6	3.1753
144.0936	104.1055	86.7629		5.9158	2.3668	2.7333	11465.13	5218.245	1346.812	2190.874	3466.598	840.5992	9406.6	367.448	0.7609	118575.3	144249.4	9774.044	134475.3	141103.1	2.7084
142.5699	100.0141	88.6125		5.5537	2.2686	2.6455	11269.03	5296.699	1354.605	1778.334	3564.118	873.2753	9682.856	291.7659	0.7775	118923.8	144798.4	9974.621	134823.8	141587.6	2.6195
139.83	165.9821	87.0748		6.7354	3.0445	3.7967	11077.88	5040.66	1329.174	1823.659	3649.391	833	10035.83	285.1659	1	112578.4	138799.4	10320.99	128478.4	135477.1	3.7408
154.0091	169.1177	88.4499		4.7585	3.0443	3.7965	12509.58	5468.986	1371.717	2249.137	4027.705	945.0327	11199.95	284.9931	1	111823.7	139207.8	11484.94	127723.7	135511.7	3.7344
151.7941	137.409	87.96		5.0637	2.6907	3.275	12226.84	5402.871	1365.15	1897.763	4241.564	917.4959	11664.31	283.7673	1	114281.1	142129.2	11948.08	130181.1	138283.1	3.2259
153.7616	98.4204	88.3699		4.5644	2.2046	2.5582	12280.55	5511.054	1375.895	1804.711	4224.338	962.5541	11616.93	282.1816	1	11810.2	145909.3	11899.11	134010.2	142079	2.5294
148.7717	130.466	87.3175		6.6329	2.6153	3.1639	11689.54	5062.868	1331.38	1893.798	4166.97	833	11434.56	283.5491	0.9446	115020.4	142638.6	11718.11	130920.4	138866.5	3.1188
148.3052	135.2786	87.6513		6.9302	2.6963	3.2832	11819.03	4998.454	1324.982	2462.779	3797.817	833	10418.51	283.9451	0.9361	115054.9	141657.3	10702.45	130954.9	138212.2	3.2389
142.0122	154.716	87.5326		7.88	2.9333	3.6326	11022.48	4792.668	1304.543	2125.756	3564.509	833	9726.254	284.8352	0.842	113651.5	139562.6	10011.09	129551.5	136340	3.5824
150.6393	139.7137	87.3035		5.0589	2.7246	3.325	11882.88	5403.907	1365.253	1764.054	4129.743	917.9272	11356.8	283.9181	1	114218.2	141758.9	11640.71	130118.2	138011.7	3.2757
147.6786	93.0475	87.6235		5.0091	2.1541	2.4835	11859.88	5414.695	1366.324	1984.31	3770.134	922.4203	10350.27	282.1385	0.9519	119349.7	145882.1	10632.41	135249.7	142459.5	2.4595
158.3773	87.8361	88.2037		4.8402	2.0769	2.3698	12562.61	5451.281	1369.958	2554.016	3847.694	937.6584	10488.5	281.8676	0.8266	11862.3	146532.7	10770.37	135762.3	143065.7	2.3483
141.8932	106.1242	86.4721		6.0888	2.4133	2.7758	11195.17	5180.75	1343.088	2012.01	3424.321	833	9284.951	402.0052	0.7507	118400.2	143987.2	9686.956	134300.2	140868.9	2.7434
142.9509	156.5496	85.8512		7.3534	2.9094	3.5976	10990.43	4906.772	1315.876	1398.764	4134.017	833	11368.54	284.5245	0.9999	112766.9	140320	11653.07	128666.9	136568.9	3.5404
156.0865	148.5365	88.321		5.9251	2.8241	3.4717	12326.07	5216.232	1346.612	2404.154	4117.312	839.7605	11322.61	284.2501	1	113463.2	140970.1	11606.86	129363.2	137233.9	3.4184
150.3366	121.3781	87.2078		4.3611	2.525	3.0307	12296.25	5555.093	1380.269	2133.283	3844.705	980.8962	10572.94	283.3542	1	116294.4	143050.7	10856.29	132194.4	139556.1	2.9923
146.9459	151.5014	88.5326		4.7032	2.8834	3.5591	11765.56	5480.98	1372.908	1817.809	3741.831	950.0283	10290.04	284.5883	1	113674.5	140149.1	10574.63	129574.5	136745.1	3.5081
142.6011	119.7741	86.7178		6.58	2.5566	3.0333	11390.05	5074.324	1332.518	2246.779	3501.429	833	9518.957	341.4901	0.7871	116926	142686.4	9860.447	132826	139512.3	3.0003
155.0264	157.2993	87.0282		5.6225	2.8794	3.5534	12346.45	5281.799	1353.125	1792.425	4650.036	867.0692	12787.6	284.2294	1	112074.6	141046.4	13071.83	127974.6	136838.6	3.4909
155.5689	74.8171	87.125		4.0587	1.8765	2.0742	12540.92	5620.617	1386.777	2162.107	3691.229	1008.187	10864.83	284.1927	0.9324	121182.2	148228.2	11146	137082.2	144640.3	2.0594
146.6603	112.1698	86.6829		6.19	2.4604	2.8896	11295.28	5158.835	1340.911	2079.348	3481.188	833	9503.864	343.5681	0.8503	117699	143446.4	9847.432	133599	140276.5	2.8601
152.4228	158.9735	86.6793		5.0126	2.9595	3.6714	12020.18	5413.942	1366.249	2112.693	3803.194	922.1066	10458.79	284.8193	1	112968.7	139612.3				

TABLE 1

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
140.9667	119.1603	86.6086		6.2965	2.5086	3.0063	11106.66	5135.765	1338.62	1723.68	3673.598	833	10068	283.3584	0.917	116756.6	143008	10351.36	132656.6	139675.9	2.9703
144.2828	140.1904	86.7141		6.9974	2.7299	3.3328	11553.59	4983.894	1323.536	1874.886	4136.272	833	11360.88	283.935	0.963	114173.9	141718.7	11644.82	130073.9	137970.3	3.2833
155.4112	117.0599	87.5478		6.2921	2.4822	2.9674	12127.87	5136.704	1338.713	2724.848	3692.606	833	10059.84	283.2704	0.8178	116969.2	143212.3	10343.11	132869.2	139882.8	2.9323
152.2423	76.0806	87.6268		4.5742	1.9905	2.1396	12116.96	5508.932	1375.684	2501.998	3366.679	961.6701	9119.628	417.2643	0.7374	121888.8	147325.7	9536.892	137788.8	144255.8	2.1299
143.6931	113.7101	87.6318		6.1978	2.4542	2.9158	11514.01	5157.139	1340.743	2229.901	3551.227	833	9669.417	296.7186	0.8097	117489.7	143355.8	9966.136	133389.7	140147.7	2.8837
149.9461	103.8798	86.8928		5.4541	2.2904	2.6846	12090.88	5138.288	1356.749	2126.375	4005.205	882.2668	11003.99	282.5266	0.9699	117846.5	145033	11286.52	133746.5	141399.9	2.654
136.8134	146.9344	88.1949		7.6459	2.8762	3.5096	10901.29	4843.379	1309.579	2017.332	3496	833	9557.204	335.9543	0.8723	114372.1	140165.3	9893.158	130272.1	136980.7	3.4649
140.7075	135.0393	86.7554		8.0905	2.9716	3.3358	10813.4	4747.049	1300.012	2498.846	3032.491	833	8227.016	751.4102	0.7581	115822.2	140700.7	8978.427	131722.2	137810.5	3.3126
149.4961	73.7067	87.1997		4.5935	1.9981	2.091	11828.42	5504.746	1375.268	2358.858	3227.616	959.9268	8754.685	496.0997	0.7555	122326.7	147477.5	9250.785	138226.7	144499.7	2.0852
150.7039	90.689	87.7684		5.1051	2.1615	2.4548	11872.96	5393.892	1364.258	2322.507	3476.55	913.7561	9509.049	334.712	0.8813	120018.3	145762.1	9843.761	135918.3	142593.4	2.435
144.0819	110.7844	88.1576		6.0817	2.4283	2.8611	11206.46	5182.291	1343.241	1931.298	3514.635	833	9590.642	318.6421	0.8428	117814.4	143623.7	9909.284	133714.4	140433.9	2.8312
148.6723	104.0308	87.2144		5.7056	2.3155	2.7215	11602.25	5263.781	1351.335	2102.965	3622.61	859.5646	9860.089	282.7308	0.8042	118409.1	144452	10142.82	134309.1	141187	2.693
135.1752	134.5529	86.4333		7.6081	2.8445	3.3126	10291.3	4851.573	1310.393	1615.813	3278.525	833	8915.452	534.1052	0.791	115673.9	141023.4	9449.557	131573.9	137981.6	3.2812
143.301	118.4673	87.7392		6.1002	2.4702	2.9499	11477.17	5178.295	1342.844	1567.772	4153.258	833	11405.85	283.0757	0.9595	116173.4	143762.3	11688.93	132073.4	139999.6	2.9109
145.4312	116.6619	87.101		6.1861	2.4637	2.9401	11441.27	5159.687	1340.996	1800.301	3905.29	833	10673.91	283.1379	0.8689	116708.5	143565.5	10957.04	132608.5	140038.5	2.9038
151.9867	109.8505	85.7286		5.6786	2.3799	2.8167	11672.29	5269.645	1351.917	1972.122	3814.595	862.007	10488.96	282.8795	0.9944	117486.7	144158.5	10771.84	133386.7	140691	2.784
142.5736	115.3948	87.5564		6.2538	2.4662	2.9438	11062.32	5145.019	1339.539	1732.444	3610.314	833	9817.275	283.2444	0.7904	117254.9	143255.5	10100.52	133154.9	140004.1	2.9101
158.5725	155.5131	86.2033		4.8304	2.9138	3.604	11969.26	5453.42	1370.171	1882.093	3923.024	938.5496	10788.32	284.6203	1	113111.4	140084.4	11072.94	129011.4	13624	3.5494
145.7426	94.2662	86.7669		5.4881	2.2457	2.5343	11471.01	5310.903	1356.015	2097.298	3425.598	879.1912	9285.516	393.7578	0.7465	119693.2	145272.5	9679.274	135593.2	142156.7	2.5151
141.4585	109.9175	87.8481		6.1053	2.4582	2.8494	11250.7	5177.188	1342.734	2094.186	3401.589	833	9328.047	392.2923	0.9285	117987.6	143607.9	9720.339	133887.6	140479	2.823
144.3886	166.7663	85.3163		7.2228	3.0282	3.7727	11056.69	4935.068	1318.686	1597.867	3970.074	833	10917.71	284.9815	1	112132.7	139235.4	11202.69	128032.7	135629.3	3.7128
140.0267	106.1881	88.4699		5.6213	2.3344	2.7496	11364.16	5282.059	1353.15	1690.931	3768.845	867.1776	10351.56	282.7422	0.9627	117934.3	144468.6	10634.3	133834.3	141045.5	2.719
154.6577	139.7812	86.9903		3.9407	2.7395	3.347	12399.68	5646.181	1389.316	2022.16	3921.184	1018.835	10783.26	284.004	1	114477.3	141444.6	11067.3	130377.3	137882.1	3.2995
144.4682	124.9427	86.981		6.4119	2.5522	3.0707	11488.73	5110.753	1336.136	1691.225	4115.619	833	11294.93	283.3584	0.9446	115606	143084.3	11578.29	131506	139357.2	3.0288
149.079	156.3966	86.1215		6.4643	2.9137	3.6038	11552.09	5099.412	1335.009	1828.876	4053.795	833	11147.94	284.5694	1	112877.7	140210.2	11432.51	128777.7	136530.1	3.5475
148.653	118.6719	88.2598		6.1075	2.478	2.9614	11874.76	5176.702	1342.686	2055.081	4065.288	833	11168.73	283.1287	0.9691	116269	143620.8	11451.86	132169	139934.5	2.9229
145.1694	141.361	86.6204		5.5623	2.7272	3.329	11411.49	5078.174	1332.9	1402.171	4363.243	833	11998.92	283.8436	1	113776.2	141958.9	12282.76	129676.2	138005.1	3.2769
148.1897	117.0084	87.672		5.6707	2.4431	2.9099	11919.93	5271.34	1352.086	1737.154	4294.642	862.713	11810.27	282.9407	1	116118	144111.2	12093.21	132018	140218.4	2.8708
142.5043	137.1187	86.598		7.143	2.7231	3.3227	11201.38	4952.354	1320.403	1952.252	3741.367	833	10200.36	284.0629	0.8292	114988.1	141372.6	10484.43	130888.1	137997.6	3.2783
136.3782	105.1769	87.1369		6.6005	2.554	2.7763	10796.29	5069.896	1332.078	2098.559	3060.761	833	8293.176	675.4742	0.741	118827.1	143695.8	8968.65	134727.1	140808.6	2.7624
140.9001	97.0079	87.3725		6.0823	2.418	2.6082	10996.53	5182.159	1343.228	2150.464	3085.675	833	8389.67	632.2611	0.7887	119696.2	144618.1	9021.931	135596.2	141714	2.5963
156.6287	144.73	87.3357		5.9662	2.7709	3.3933	12351.74	5207.329	1345.728	2284.448	4276.187	836.0527	11759.52	284.0172	1	113592.5	141536.1	12043.53	129492.5	137659.3	3.3404
150.4556	154.3258	86.9414		6.6702	2.8689	3.538	12026.48	5054.784	1330.577	2041.796	4364.321	833	12001.89	284.3042	1	112669.1	140855.3	12286.19	128569.1	136900.4	3.4796
135.2295	188.2843	87.6311		8.7442	3.2152	4.0486	10869.53	4605.433	1285.946	1466.438	4276.712	833	11733.81	285.4726	0.9388	110144.8	138064.1	12019.29	126044.8	134195.1	3.976
136.2946	94.7115	85.302		6.8581	2.6033	2.5884	10320.96	5014.078	1326.534	2168.639	2576.706	833	6902.428	1019.835	0.601	120480.9	144303.2	7922.263	136380.9	141753	2.5892
155.2874	163.4074	86.5554		5.6529	3.0034	3.7361	12225.3	5275.213	1352.47	2491.433	3839.861	864.3261	10559.62	284.9513	1	112559.7	139304.3	10844.57	128459.7	135813.4	3.679
133.7786	135.0528	88.045		7.961	2.9169	3.3294	10303.65	4775.106	1302.798	1819.995	3170.746	833	8538.424	653.174	0.6627	115733	140824.6	9191.599	131633	137865.8	3.3025
145.0684	120.8601	87.2123		6.1568	2.4846	2.9712	11460	5166.027	1341.626	1315.369	4401.977	833	12087.04	283.0442	0.9559	115611	143881.1	12370.08	131511	139899.1	2.9293
148.2882	179.154	88.0096		5.5181	3.1647	3.974	11843.83	5304.421	1355.372	2095.039	3810.51	876.4915	10478.9	285.5019	1	111350.6	138015	10764.41	127250.6	134550	3.9109
149.6909	113.4868	86.1233		5.1895	2.4239	2.8814	11901.34	5375.61	1362.442	1985.491	3869.652	906.1416	10641.55	283.009	1	117041.6	143866.2	10924.56	132941.6	140349.6	2.8467
155.9518	206.7365	88.6358		4.5209	3.4079	4.3327	12600.42	5520.462	1376.829	2370.389	3964.269	966.4723	10901.74	286.2428	1	109178.4	136266.4	11187.98	125078.4	132665	4.2568
137.6392	151.3271	86.0675		8.0554	2.963	3.5862	10587.2	4754.673	1300.769	1850.442	3446.321	833	9353.234	404.0602	0.7633	114040.3	139697.6	9757.294	129940.3	136556.6	3.5427
153.927	103.7162	86.62		5.4653	2.2901	2.6843	12252.3	5135.861	1356.508	2325.265	3971.41	881.256	10908.36	282.5357	0.9636	117912.1	145003	11190.9	133812.1	141400.6	2.6538
144.9008	93.9822	86.7499		5.3599	2.2214	2.5258	11399.14	5338.687	1358.775	1949.905	3459.013	890.763	9424.638	357.6711	0.8197	119676.6	145358.9	9782.315	135576.6	142210	2.5053
150.363	84.8966	87.2332		5.1139	2.1499	2.3395	11993.14	5391.994	1364.069	2627.486	3294.623	912.9653	8967.094	464.2675	0.8037	120885.1	146216.4	9431.362	136785.1	143180.5	2.3272
152.178	122.5624	87.8953		5.9322	2.5407	3.0537	12098.85	5214.698	1346.46	2467.184	3829.383	839.1216	10530.8	283.4113	1	116199.8	142914	10814.22	132099.8	139432.9	3.

TABLE 1

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
148.4016	99.4032	87.166		5.5263	2.2928	2.6372	11698.14	5302.629	1355.193	2311.186	3451.384	875.745	9463.75	349.9188	0.9267	119064	144777.6	9813.669	134964	141618.6	2.6138
143.0579	175.0736	87.5418		7.6955	3.0662	3.829	11644.96	4832.638	1308.513	1717.948	4550.858	833	12514.86	284.8694	1	110798.3	139498	12799.73	126698.3	135377.8	3.759
159.1075	112.5785	87.0529		5.1968	2.408	2.858	12306.41	5374.026	1362.285	2321.71	3940.91	905.4819	10837.5	282.9343	1	117036.3	144056.8	11120.44	132936.3	140477.1	2.8233
142.0361	145.5876	87.6589		7.3466	2.8267	3.4755	11029.28	4908.236	1316.021	1951.146	3618.878	833	9937.51	284.4461	0.9577	114348.6	140470.6	10221.99	130248.6	137180.2	3.4283
153.8639	118.6565	87.7933		5.695	2.4805	2.965	12476.35	5266.087	1351.564	2578.098	4018.076	860.5251	11049.71	283.1505	1	116328.5	143561.3	11332.86	132228.5	139913.3	2.9268
147.4593	162.7529	85.4749		5.1629	2.9939	3.7221	11410.7	5381.37	1363.014	1480.818	3874.957	908.5407	10656.13	284.9057	1	112570.9	139411.9	10941.04	128470.9	135890	3.665
152.1354	83.4632	87.8546		4.8241	2.0701	2.3005	12268.16	5454.786	1370.306	2653.286	3448.668	939.1182	9391.668	360.0793	0.8121	120897	146548.7	9751.747	136797	143409.6	2.2852
153.6468	106.7113	87.8588		5.7038	2.3329	2.7474	12083.4	5264.171	1351.374	2272.801	3933.325	859.7271	10764.26	282.893	0.8907	116762.5	144619.5	11046.95	133572.5	141063.4	2.7157
144.8288	123.6417	88.057		5.8257	2.5392	3.0516	11796.01	5237.77	1348.751	1894.005	4064.751	848.731	11178.07	283.3296	1	115784.3	143145.7	11461.4	131684.3	139456.3	3.0106
139.3582	123.3361	87.48		7.6867	2.8424	3.1288	10661.64	4834.552	1308.703	2281.877	3001.51	833	8087.296	772.7253	0.6697	117002	141762	8860.021	132902	138909.9	3.1109
147.6673	131.2784	87.0398		5.9964	2.6339	3.1913	11577.98	5200.779	1345.077	1776.411	4020.388	833.3246	11056.07	283.6572	1	115124.2	142363.9	11339.73	131024.2	138713.6	3.1469
146.9436	123.8812	86.3066		6.7408	2.5996	3.108	11183.15	5039.484	1329.057	2056.086	3523.518	833	9572.296	326.6738	0.7771	116506	142305	9898.97	132406	139118.5	3.0726
146.9777	88.3066	87.7062		5.29	2.1947	2.4126	11707.89	5353.829	1360.279	2373.275	3201.432	897.0698	9021.867	455.0621	0.7749	120466.2	145843.2	9476.929	136366.2	142792.5	2.3984
148.3414	120.1707	87.3938		6.2473	2.5192	3.022	11771.4	5146.427	1339.679	2351.544	3698.75	833	10162.27	283.3829	0.9705	116611.3	142956.9	10445.65	132511.3	139594.5	2.9853
146.1599	120.1588	87.8738		6.2971	2.4974	2.99	11434.26	5135.632	1338.607	1655.098	4069.924	833	11130.28	283.1971	0.8786	116142.9	143456.3	11413.47	132042.9	139782.3	2.9508
145.5947	94.4112	87.6058		5.5487	2.2639	2.5394	11554.16	5297.782	1354.712	2244.807	3382.13	873.7261	9174.274	422.6632	0.7562	119715.7	145212.6	9596.937	135615.7	142123.4	2.5212
154.5531	104.4566	87.552		4.9288	2.2937	2.6895	12522.03	5432.09	1368.052	2039.264	4080.96	929.6654	11222.64	282.5145	1	117675.7	145080.8	11505.16	133575.7	141327.3	2.6581
134.5151	122.2231	87.1948		7.6569	2.8264	3.1081	10357.32	4841.008	1309.344	1956.841	3015.122	833	8092.851	768.7676	0.6239	117111.8	141873.5	8861.619	133011.8	139020.9	3.0905
144.045	147.5238	88.3088		7.4953	2.8495	3.509	11291.3	4876.012	1312.821	2256.026	3611.44	833	9898.064	284.5282	0.9178	114196.2	140278.8	10182.59	130096.2	137001	3.4611
148.745	111.5613	86.7612		5.7401	2.3705	2.8028	11950.52	5256.31	1350.593	1721.727	4363.434	856.4533	11986.35	282.6844	0.9661	116568.8	144737.8	12269.04	132468.8	140788.4	2.7662
144.3622	162.4365	86.9648		7.717	2.9709	3.6882	11575.55	4827.992	1308.051	2065.545	4138.965	833	11380.3	284.7249	0.9924	112279.6	139844.6	11665.02	128179.6	136089.6	3.6284
159.4145	144.7449	86.4319		4.4161	2.919	3.4243	12601.45	5543.187	1379.086	2324.413	3976.826	975.9376	10936.28	284.1957	1	113967.5	141087.9	11220.47	129867.5	137476.1	3.374
150.4417	148.0823	87.593		5.4746	2.8292	3.4793	11709.17	5313.828	1356.306	1782.567	3974.064	880.4095	10928.68	284.3203	1	113680.8	140793.8	11213	129580.8	137184.3	3.4275
148.1718	103.0775	88.916		5.5642	2.2888	2.6822	11822.21	5294.426	1354.379	2039.789	3859.288	872.3282	10549.28	282.5686	0.8707	118161.2	144893.1	10831.85	134061.2	141406.3	2.6528
145.7983	99.7314	87.3451		5.4487	2.2527	2.629	11286.85	5319.439	1356.863	1638.85	3686.952	882.7462	10067.87	282.4976	0.8539	118763.7	145014.1	10350.37	134663.7	141682.3	2.6021
156.4633	116.2733	88.0869		4.8992	2.4325	2.8943	12411.79	5438.51	1368.69	1951.83	4318.419	932.3394	11875.67	282.8987	1	116157.8	144216.4	12158.57	132057.8	140302.5	2.8553
140.8108	152.7583	87.6876		5.4888	2.8838	3.5597	11305.75	5310.753	1356	1431.126	3926.743	879.1285	10798.55	284.5192	1	113339.2	140322.3	11083.07	129239.2	136754.6	3.0663
154.3805	137.7229	86.9288		5.3754	2.7029	3.2931	12321.91	5335.333	1358.442	2224.07	4112.703	898.3663	11309.91	283.853	1	114417.8	141911.6	11593.76	130317.8	138179.5	3.2449
143.4421	91.8093	88.4149		5.3346	2.1999	2.4814	11569.13	5344.161	1359.319	2113.791	3456.812	893.0431	9354.291	374.6697	0.7241	119946	145574.8	9728.76	135846	142443.1	2.4625
140.959	97.3698	87.7917		5.9493	2.3755	2.6096	11051.64	5210.996	1346.092	2043.593	3211.377	837.5797	8711.558	547.5765	0.7569	119544.6	144703.8	9259.135	135444.6	141723.2	2.5946
142.2839	115.8646	86.5683		6.7071	2.5848	2.9696	11223.17	5046.788	1329.783	2278.71	3332.893	833	9035.179	480.5066	0.7479	117466.9	142882.6	9515.685	133366.9	139819.5	2.944
155.6562	87.9122	88.6411		4.3197	2.0617	2.3474	12467.3	5564.063	1381.16	1987.745	4147.7	984.6321	11406.18	281.7328	1	119368.8	146956.7	11687.91	135268.8	143194.3	2.3247
136.7351	173.4748	87.1807		7.0057	3.1094	3.8924	10960.43	4982.094	1323.357	1621.208	3798.774	833	10446.63	285.3219	1	111804.3	138436.2	10731.95	127704.3	134981.6	3.8317
150.5239	118.4612	87.6768		5.7374	2.4729	2.9538	12062.06	5256.889	1350.65	2092.505	4103.325	856.6943	11284.15	283.0983	1	116233.3	143700.5	11567.24	132133.3	139977	2.9151
148.5103	122.9112	87.162		6.6956	2.601	3.0918	11541.05	5049.288	1330.031	2448.773	3477.962	833	9491.086	350.6695	0.8437	116624.8	142366.5	9841.756	132524.8	139198.5	3.0579
154.6708	95.9447	87.1649		4.7159	2.1765	2.5168	12385.05	5478.23	1372.635	2067.724	4115.577	948.8829	11317.84	282.1189	1	118529	146029	11599.96	134429	142295	2.4897
150.0565	98.1469	86.754		5.7057	2.3026	2.6149	11683.42	5263.768	1351.334	2377.343	3429.415	859.5592	9278.703	398.3012	0.7221	119264.4	144841.4	9677.004	135164.4	141726.3	2.5941
140.8698	138.5984	86.4034		7.2703	2.7512	3.3642	10751.65	4924.766	1317.663	1688.297	3585.925	833	9754.889	284.2157	0.7962	115059.7	140998.8	10039.1	130959.7	137767.2	3.3205
151.8097	102.6666	86.9916		4.9711	2.2751	2.662	12237.36	5422.936	1367.143	2134.912	3984.516	925.8527	10957.42	282.4806	1	117997.5	145137.4	11239.9	133897.5	141519.3	2.6321
144.4778	120.4667	87.3142		5.8201	2.5188	3.0214	11469.38	5238.98	1348.872	1861.594	3768.695	849.2353	10363.91	283.3578	1	116481.6	143028.8	10647.27	132381.6	139601.5	2.984
152.3304	120.7045	86.2529		5.3872	2.5202	3.0235	12085.72	5332.766	1358.187	2316.427	3788.042	888.297	10417.12	283.3562	1	116435.5	143035.9	10700.47	132335.5	139591.5	2.9858
145.754	115.9031	86.9978		6.0963	2.4438	2.9109	11317.74	5179.14	1342.928	1488.388	4072.283	833	11144.25	283.0184	0.8902	116553.1	143880.4	11427.27	132453.1	140202	2.8738
148.1952	108.6659	87.939		5.6802	2.3465	2.7674	11813.51	5269.294	1351.883	1794.519	4133.955	861.8608	11349.43	282.6751	0.9526	117178.3	144710.4	11632.1	133078.3	140966	2.7336
146.1434	84.7939	89.2793		5.3851	2.2221	2.3467	11499.06	5333.238	1358.234	2414.759	3102.337	888.4935	8430.234	595.4023	0.7807	121096	146021.7	9025.636	136996	143116.3	2.339
142.6851	131.6113	86.1888		5.9563	2.6572	3.2256	10973.84	5209.475	1345.941	1455.495	3723.985	836.9465	10240.96	283.8367	1	115477.6	141902.4	10524.8	131377.6	138514.4	3.1834
137.1692	126.7658	87.7684		6.8713	2.6384	3.1607	10880.83	5011.227	1326.251	1794.411	3513.946	833	9554.525	332.6414	0.7894	116231.9	142019	9887.167	132131.		

TABLE 1

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
143.7125	106.7394	87.7257		6.1437	2.4384	2.79	11268.95	5168.866	1341.908	2151.612	3371.568	833	9178.183	432.0145	0.8064	118369.7	143879.9	9610.198	134269.7	140786.4	2.7665
149.0059	123.9172	87.5345		6.5476	2.5579	3.0791	11420.64	5081.362	1333.217	1918.967	3852.098	833	10507.66	283.4716	0.8371	116080.2	142771.3	10791.14	131980.2	139297.7	3.0397
150.4948	80.935	88.9183		4.545	1.9973	2.2401	12199.83	5515.24	1376.311	2406.479	3535.507	964.2976	9649.77	297.7507	0.8464	121099.6	146947.1	9947.521	136999.6	143745	2.2236
151.7411	153.3175	87.3192		6.3246	2.8731	3.544	11557.03	5129.672	1338.015	1695.989	4158.358	833	11435.49	284.3958	1	113006.7	140626.6	11719.88	128906.7	136854	3.4881
155.1523	99.1963	87.5703		5.4101	2.2452	2.6179	12312.61	5327.801	1357.694	2652.804	3686.082	886.2292	10075.33	282.4715	0.8698	118818.1	145075.9	10357.8	134718.1	141741.7	2.5912
158.8835	117.1961	87.2103		4.9318	2.4431	2.91	12469.81	5431.434	1367.987	2006.055	4332.94	929.3921	11915.6	282.9289	1	116048.1	144146.7	12198.53	131948.1	140220	2.8705
157.3741	104.1532	86.4554		4.6981	2.2806	2.6702	12573.55	5482.079	1373.017	2122.313	4243.657	950.4861	11670.06	282.4249	1	117480.8	145333.3	11952.49	133380.8	141485.8	2.6382
150.535	167.0959	87.0963		4.8428	3.055	3.8122	11907.44	5450.721	1369.902	2084.901	3662.486	937.4254	10071.84	285.196	1	112472.7	138729.7	10357.04	128372.7	135395.8	3.7557
143.5396	108.5508	88.1542		5.8276	2.3649	2.7945	11388.04	5237.35	1348.71	1751.451	3799.976	848.5562	10392.04	282.8398	0.8786	117668.7	144243.6	10674.88	133568.7	140807.3	2.7627
157.309	108.8591	87.6226		5.5844	2.3437	2.7633	12647.36	5290.041	1353.943	2510.002	4220.869	870.502	11604.28	282.6384	0.9888	117031.2	144818.1	11886.92	132931.2	140991.7	2.7289
154.6324	121.9635	86.9154		4.7405	2.5051	3.0014	12352.47	5472.893	1372.105	1876.391	4282.426	946.6598	11776.67	283.1471	1	115655.9	143615.7	12059.82	131555.9	139733.6	2.9597
135.3298	115.0106	87.1342		7.207	2.7161	2.9711	10609.12	4938.474	1319.025	2097.579	3019.04	833	8158.015	734.4902	0.7057	117828.1	142620.6	8892.506	133728.1	139758.1	2.9552
136.6864	122.4156	85.7099		6.7953	2.6124	3.0849	10822.55	5027.689	1327.886	1774.218	3457.759	833	9385.164	382.0386	0.7646	116704.9	142372.1	9767.202	132604.9	139228	3.0525
139.9296	153.5836	85.0121		7.8206	2.9166	3.6081	10911.15	4805.535	1305.821	1940.521	3624.269	833	9889.423	284.756	0.8422	113675.5	139749.6	10174.18	129575.5	136474.6	3.5577
154.4185	92.7868	87.5209		4.5289	2.1456	2.4712	12336.82	5518.73	1376.657	2217.372	3856.313	965.7512	10604.87	282.0858	1	119246	146032.9	10886.96	135146	142528.4	2.4469
147.0772	140.4612	86.9812		6.8961	2.7141	3.3096	11860.03	5005.842	1325.716	1883.996	4009.482	833	12119.21	282.7854	0.9798	113799.5	142102.5	12403	129699.5	138110	3.2576
153.761	87.7049	87.224		5.3669	2.2186	2.4038	11861.17	5337.175	1358.625	2642.464	3203.776	890.1334	8785.473	513.1773	0.7908	120622	145820.6	9298.651	136522	142827.4	2.392
152.4562	141.6147	86.5421		4.9669	2.7828	3.4107	12029.47	5423.836	1367.232	2314.344	3595.827	926.2276	9888.525	284.3045	1	114725	140797.9	10172.83	130625	137523.2	3.3653
148.9572	141.4344	87.1786		6.1198	2.7494	3.3617	11757.44	5174.041	1342.422	1954.323	4051.655	833	11142.06	284.028	1	114164.6	141490.7	11426.08	130064.6	137812.6	3.3122
152.2426	107.8029	88.383		5.6392	2.3272	2.739	12276.71	5278.17	1352.764	2099.433	4278.79	865.5578	11736.42	282.5703	0.9334	117072.5	144991.4	12018.99	132972.5	141122.5	2.7049
140.0288	166.5993	88.1936		7.0233	3.0037	3.7368	11464	4978.296	1322.98	1659.159	4268.568	833	11738.57	284.781	1	111789.7	139713.1	12023.35	127689.7	135847.2	3.6737
149.2156	83.924	87.5625		5.18	2.157	2.321	12033.38	5377.67	1362.647	2730.687	3253.375	906.9995	8803.881	502.5441	0.7242	121060.8	146267.2	9306.425	136960.8	143271.5	2.3105
149.4844	92.346	87.1576		5.059	2.1493	2.4765	12035.78	5403.878	1365.25	2266.088	3680.651	917.915	10069.4	282.1496	0.8848	119574.2	145825.7	10351.55	135474.2	142493.6	2.4533
153.6509	107.9435	87.3869		5.4435	2.3354	2.7511	12215.04	5320.577	1356.976	2098.791	4153.478	883.2201	11422.04	282.6309	0.9998	117216.6	144821.3	11704.67	133116.6	141053.6	2.7175
145.5914	110.4647	86.1811		5.6632	2.3689	2.8004	11435.45	5294.907	1354.427	1367.422	4144.163	872.5288	11396.41	282.7436	0.9997	116972	144551.1	11679.16	132872	140791.6	2.7656
148.9872	133.842	87.3549		5.8791	2.6699	3.2443	11703.98	5226.189	1347.601	1951.119	3933.162	843.9078	10816.2	283.8064	1	115000.6	142000.6	11100.01	130900.6	138427.6	3.1994
149.0889	117.4921	86.678		5.95	2.4482	2.9175	11956.62	5210.824	1346.075	1849.452	4310.76	837.5081	11850.91	282.9529	0.9874	116051	144084.8	12133.86	131951	140178.9	2.878
143.3166	93.7818	86.6024		5.9533	2.3638	2.5401	11866.79	5210.114	1346.005	2264.993	3126.465	837.2123	8424.142	616.4713	0.6699	120049.7	144990.3	9040.614	135949.7	140280.1	2.5292
153.5978	107.5188	89.2186		5.2531	2.3359	2.7518	12607.72	5361.836	1361.074	2532.644	4049.578	900.4047	11136.83	282.663	1	117402.2	144721.7	11419.5	133302.2	141045.8	2.7189
147.434	114.876	86.3614		6.0772	2.4408	2.9064	11588.27	5183.263	1343.338	1925.256	3901.416	833	10681.82	283.0608	0.8988	116882.4	14374.3	10964.89	132782.4	140217.7	2.8709
136.9531	130.3195	85.4618		7.0237	2.7044	3.2272	10602.73	4978.19	1322.969	1622.084	3444.482	833	9423.305	373.7122	0.8849	115929.9	141626.9	9797.017	131829.9	138473.2	3.191
158.7772	122.9235	87.5302		4.343	2.5205	3.0241	12476.63	5559.007	1380.658	1929.266	4223.177	982.5265	11613.74	283.2166	1	115642.9	143439.9	11896.96	131542.9	139610.3	2.9824
146.3576	64.2017	87.6352		4.127	1.8692	1.8699	11802.86	5605.807	1385.306	2288.567	3119.165	1002.019	8465.518	536.6312	0.7636	123668.6	148570.8	9002.149	139568.6	145673	1.8699
148.7902	105.5489	88.1225		6.8225	2.749	3.3612	11871.55	5021.795	1327.3	1564.532	4722.921	833	12988.02	283.7851	0.9999	112957.4	142129.2	13271.81	128857.4	137857	3.3041
144.2606	79.5634	87.3681		5.0238	2.1183	2.2279	11744.58	5411.5	1366.007	2484.419	3159.565	921.0899	8572.17	549.8177	0.7588	121673.6	146695.6	9121.987	137573.6	143759.2	2.221
152.4932	97.9464	86.9789		5.1821	2.2044	2.5579	12007.22	5377.217	1362.602	1845.708	4112.879	906.8107	11292.25	282.2133	0.954	118327.8	145802.3	11574.46	134227.8	142076.5	2.5298
148.4569	152.4621	89.0876		6.6128	2.8644	3.5313	11926.54	5067.217	1331.812	2142.079	4150.429	833	11413.68	284.3704	1	113088.5	140686.5	11698.05	128988.5	136920.9	3.4758
148.572	105.8182	86.9532		5.5311	2.3295	2.7423	11752.48	5301.603	1355.092	2053.596	3764.871	875.3178	10350.95	282.7258	0.9899	117973.3	144507	10633.68	133873.3	141084	2.7119
143.6621	146.9275	86.6371		7.226	2.7906	3.4224	11304.94	4934.368	1318.617	1461.618	4355.337	833	11958.52	284.055	0.9551	113308.6	141451.2	12240.58	129208.6	137510.3	3.3677
156.185	116.2812	86.284		5.9443	2.4441	2.9114	12194.91	5212.063	1346.198	2268.566	4128.063	838.0243	11347.86	282.9964	0.9853	116415.9	143946.8	11630.86	132315.9	140202.8	2.8736
146.5366	100.1462	86.1863		5.7118	2.3231	2.6548	11398.96	5262.439	1351.202	2103.11	3421.203	859.006	9301.5	385.5733	0.8358	119027.5	144644.6	9717.073	134927.5	141561.7	2.6325
141.891	105.9074	86.2641		5.8165	2.3432	2.7624	11004	5239.757	1348.949	1580.218	3583.518	849.5586	9740.81	282.8371	0.7851	118270.8	144194.5	10023.64	134170.8	140967.9	2.7332
149.9015	184.0173	86.766		6.57	3.2175	4.0518	11758.96	5076.505	1332.734	2372.971	3741.75	833	10289.81	285.7079	1	111060.5	137536	10575.52	126960.5	134131.7	3.9876
154.2721	126.0528	88.2348		5.5391	2.6554	3.0903	12375.43	5299.86	1354.918	2273.153	4170.908	874.5915	11470	283.3809	1	115387.2	143040.6	11753.38	131287.2	139257.2	3.0471
158.9922	129.1164	87.3425		4.4874	2.6112	3.1578	12586.46	5527.731	1377.551	2335.807	3973.875	969.5	10928.16	283.5979	1	115385.9	142497.7	11211.76	131285.9	138888.6	3.1148
142.5265	133.4165	88.2148		6.8065	2.6596	3.2291	11537.95	5025.268	1327.645	1926.425	4023.611	833	11036.12	283.7447	0.9327	114936.5	142156.4	1131			

TABLE 1

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
154.8984	95.2847	86.2555		5.2103	2.1911	2.5381	11940.06	5371.103	1361.995	2223.598	3677.104	904.2645	10057.19	282.2914	0.8806	119254.3	145493.8	10339.48	135154.3	142165.6	2.5135
139.2638	117.5805	87.4241		6.6012	2.5781	2.9984	10971.65	5069.733	1332.061	1961.152	3373.705	833	9215.272	429.4382	0.8587	117237.6	142782.3	9644.71	133137.6	139677.7	2.97
146.7428	123.3769	87.2645		6.3377	2.5325	3.0417	11698.57	5126.829	1337.732	1870.771	4128.234	833	11331.3	283.2892	0.9479	115735.8	143250.4	11614.59	131635.8	139511.7	3.0004
144.4036	89.3658	89.3341		5.0875	2.1441	2.4268	11794.42	5397.706	1364.637	2228.177	3486.552	915.3445	9495.623	337.5663	0.8133	120173.9	145907.1	9833.189	136073.9	142741.8	2.4077
151.7669	111.233	86.9153		5.5553	2.382	2.8198	11202.66	5296.342	1354.569	2088.281	4088.345	873.1264	11242.95	282.8036	1	116971	144396.8	11525.75	132871	140686.6	2.7848
152.0783	131.6575	86.5005		6.188	2.6227	3.1747	11966.08	5159.268	1340.954	1969.883	4260.98	833	11717.7	283.5382	1	114776.9	142678.2	12001.23	130676.9	138815	3.1283
143.2099	98.0912	88.553		5.992	2.3849	2.6243	11267.27	5201.724	1345.171	2266.206	3218.453	833.718	8720.338	546.3777	0.7408	119461.2	144628	9266.716	135361.2	141645	2.609
153.5285	87.2295	87.2057		4.871	2.0935	2.3784	12162.45	5444.611	1369.296	2487.84	3523.819	934.8806	9632.894	302.8904	0.8717	120369.7	146205.5	9935.784	136269.7	143007.1	2.359
149.8291	103.5354	88.3303		5.6511	2.3105	2.7143	11978.56	5275.586	1352.507	2506.234	3577.749	864.4816	9772.233	282.7234	0.8581	118506.2	144461.2	10054.96	134406.2	141224.5	2.6862
146.4457	122.0222	85.5619		6.415	2.5447	3.0596	11388.02	5110.093	1336.07	2038.551	3668.304	833	10057.11	283.4811	0.9239	116480.8	142721.4	10340.59	132380.8	139392.7	3.0223
138.0678	117.9764	87.3699		6.2916	2.4912	2.9807	10892.59	5136.825	1338.725	1455.457	3726.583	833	10179.74	283.2868	0.8597	116819.5	143182.5	10463.03	132719.5	139814.4	2.9449
141.1897	131.5371	87.5603		6.8887	2.6626	3.2335	10992.16	5007.441	1325.875	1774.186	3649.659	833	9977.172	283.8879	0.8722	115608.8	141769.8	10261.06	131508.8	138466.8	3.1922
154.0714	126.7734	87.14		5.8019	2.5653	3.0901	12260.1	5242.915	1349.262	2162.645	4252.399	850.874	11694.1	283.3534	1	115240.6	143118.1	11977.45	131140.6	139262.5	3.0462
151.1559	132.3461	86.9539		6.4983	2.6305	3.1864	12153.44	5092.043	1334.277	2228.353	4263.762	833	11724.94	283.5631	0.9978	114710.5	142619	12008.5	130610.5	138753.5	3.1396
153.6761	128.1562	85.2238		5.6763	2.598	3.1382	11813.9	5270.135	1351.966	1926.698	4000.895	862.2113	11002.46	283.5449	1	115440.7	142626.7	11286.01	131340.7	138993.7	3.0955
149.4623	153.4808	87.489		5.8766	2.8657	3.5332	12101.67	5226.73	1347.655	1996.631	4284.526	844.1331	11782.45	284.3238	1	112837.7	140804.4	12066.77	128737.7	136920.2	3.476
142.4909	105.9795	87.9861		6.0357	2.3992	2.7714	11324.56	5192.259	1344.231	2100.748	3452.325	833	9363.51	380.2175	0.7546	118390	144033.8	9743.768	134290	140897.2	2.7462
157.9403	109.4785	87.1903		4.3214	2.3729	2.8063	12540.54	5563.7	1381.124	2356.9	3852.332	984.4809	10593.91	282.8444	1	117472.5	144249.3	10876.76	133372.5	140748	2.7736
143.2127	123.9245	86.0319		6.2544	2.5814	3.1064	11406.49	5144.881	1339.525	2165.573	3521.506	833	9684.138	293.2482	0.9999	116468.9	142346.3	9977.386	132368.9	139134.6	3.0696
148.5331	135.1271	86.3941		5.2228	2.6876	3.2703	11900.39	5368.398	1361.726	1971.69	3893.434	903.1379	10706.94	283.8791	1	114934	141824.8	10990.82	130834	138286.9	3.2252
151.2207	103.6307	88.1174		4.3614	2.2969	2.6942	12166.79	5555.038	1380.263	2024.445	3824.167	980.8731	10516.46	282.5996	1	118119.5	144818.5	10799.06	134019.5	141342.3	2.6645
155.3717	198.1527	86.6691		5.6237	3.318	4.2002	12088.11	5281.537	1353.099	2064.091	4120.421	866.9602	11331.16	285.8746	1	109603	137120	11617.04	125503	133380.5	4.1255
148.5296	118.1051	85.6951		5.7688	2.4769	2.9597	11452.41	5250.088	1349.975	1633.013	3963.477	853.8617	10899.56	283.156	1	116455.7	143538.5	11182.72	132355.7	139938.7	2.9221
145.0968	111.4594	87.0695		6.1693	2.47	2.8782	11500.18	5163.315	1341.356	2334.971	3425.542	833	9384.308	377.211	0.9093	117809.8	143471.3	9761.519	133709.8	140329.1	2.8505
145.3517	108.8629	87.7116		5.774	2.3552	2.7802	11897.88	5248.973	1349.864	2005.8	4037.842	853.397	11055.97	282.7354	0.8998	117304.9	144543.6	11338.7	133204.9	140893.7	2.7469
148.7457	140.17	86.9035		6.9551	2.7126	3.3075	11689.94	4993.064	1324.446	1750.386	4387.043	833	12045.32	283.7902	0.9546	113859.3	142088.4	12329.11	129759.3	138119.7	3.2559
141.3524	144.4335	87.8226		7.1267	2.7849	3.414	10886.14	4955.871	1320.752	1345.582	4028.93	833	11074.72	284.154	0.9835	113931.5	141190.3	11358.87	129831.5	137533.9	3.3634
147.7048	75.3114	87.7261		4.783	2.0467	2.1309	11585.17	5463.69	1371.191	2233.703	3171.759	942.8668	8582.158	538.3539	0.7229	122194.2	147214.8	9120.512	138094.2	144278.9	2.1257
149.0794	104.3462	87.282		5.572	2.3062	2.7079	11642.78	5292.723	1354.21	1882.726	3839.502	871.6192	10528.54	282.6289	0.9278	118038.5	144749.7	10811.17	133938.5	141269.6	2.6779
151.1195	136.8633	86.2771		6.3332	2.6822	3.2625	11714.59	5127.816	1337.831	1739.743	4274.205	833	11754.07	283.8128	1	114288.2	142226	12037.79	130188.2	138351	3.2134
145.7988	112.8556	88.8107		6.5049	2.5452	2.9122	11557.61	5090.606	1334.135	2586.593	3311.282	833	9030.517	479.0192	0.8338	117777	143186.6	9509.537	133677	140125.4	2.8878
147.9378	156.1135	85.6476		7.4725	2.9153	3.6063	11552.84	4880.967	1313.313	2133.635	3989.929	833	10971.85	284.5997	0.9975	112979.5	140136	11256.45	128879.5	136512.5	3.5508
152.066	120.4095	86.7754		5.3731	2.4924	2.9826	11849.92	5335.833	1358.491	1685.149	4178.876	889.5743	11491.91	283.1387	1	115943.1	143618.1	11775.05	131843.1	139827.7	2.9424
141.2917	154.7686	87.9181		7.7819	2.9088	3.5967	11072.31	4813.92	1306.653	1808.086	3908.649	833	10672.79	284.62	0.8532	113225.5	140082.9	10957.41	129125.5	136555.7	3.5428
139.3998	125.9151	88.732		6.698	2.5918	3.1291	11185.44	5048.763	1329.979	1860.369	3711.327	833	10097.56	283.6347	0.7984	116084.7	142365.9	10381.2	131984.7	139024.3	3.0899
145.7518	102.8572	87.1974		5.9947	2.3998	2.7146	11421.08	5201.158	1345.115	2308.669	3330.655	833.4823	9076.835	456.4402	0.8229	118818.4	144251.7	9533.276	134718.4	141182.9	2.6938
136.2512	86.0783	88.656		5.6723	2.2872	2.3806	11001.45	5270.997	1352.052	2105.7	3008.132	862.57	8110.111	677.6516	0.6772	121061.5	145749.2	8787.762	136961.5	142920.4	2.375
143.6201	119.6839	88.2832		6.5896	2.5669	3.033	11804.01	5072.262	1332.313	2697.491	3466.946	833	9449.353	361.9305	0.8246	116955.9	142667.2	9811.283	132855.9	139508.9	3.0099
150.3195	175.7096	86.8547		5.7622	3.0529	3.8094	12053.57	5251.516	1350.117	1397.178	4798.303	854.4562	13195.34	284.7255	1	110459.8	139839.9	13480.06	126359.8	135500.6	3.7364
144.2921	103.4627	88.9321		5.3992	2.2658	2.6484	11683.13	5330.174	1357.929	1352.343	4353.463	887.2175	11951.72	282.3473	0.952	117409.6	145543.7	12234.07	133309.6	141605.6	2.6162
148.8587	149.5916	86.9268		7.3337	2.8393	3.4942	11485.72	4911.024	1316.298	1955.266	4068.132	833	11180.52	284.3196	0.9785	113437.1	140802	11464.84	129337.1	137111.4	3.4409
152.179	97.4353	88.0261		5.156	2.2033	2.5563	12258.77	5382.87	1363.163	2203.14	3998.434	909.1654	10984.4	282.2403	0.9676	118541.2	145707.9	11266.64	134441.2	142081.1	2.529
137.5671	149.3227	86.7118		7.9048	2.9442	3.5539	10785.34	4787.296	1304.009	2041.867	3417.166	833	9332.416	410.108	0.856	114220.7	139863.2	9742.524	130120.7	136727.1	3.5114
150.5352	141.8773	85.8684		4.3382	2.7493	3.3614	11857.12	5560.06	1380.762	1405.134	4126.201	982.9648	11347.06	284.0007	1	114031.5	141562.5	11631.06	129931.5	137818.5	3.3111
158.9467	104.9618	86.6165		4.6201	2.2856	2.6776	12915.87	5498.987	1374.696	2336.73	4345.928	957.5281	11951.31	282.4119	1	117255.1	145388.8	12233.72	133155.1	141450.8	2.6446
153.4568	154.11	88.0572		6.4296	2.8735	3.5446	11951.57	5106.923	1335.755	2003.625	4270.268	833	11743.24	284.3546	1	112802.7	140730.3	12027.6			

TABLE 1

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
145.383	80.2104	88.4522		5.0663	2.1354	2.2433	11850.71	5402.301	1365.093	2631.047	3133.007	917.2582	8522.564	562.9321	0.7958	121613.6	146599.1	9085.496	137513.6	143674.5	2.2366
152.1082	152.7	86.7525		7.2898	2.8573	3.5208	11930.8	4920.553	1317.245	2172.962	4285.04	833	11783.11	284.2964	0.9964	112902.7	140870.1	12067.41	128802.7	136985.6	3.464
147.2674	136.8178	86.1531		6.4366	2.7183	3.3157	11839.82	5105.393	1335.603	2435.321	3728.503	833	10253.39	284.0399	1	114991	141428.4	10537.43	130891	138036.4	3.2712
146.1409	160.4105	87.9153		5.9303	2.9644	3.6786	11830.71	5215.106	1346.65	2085.484	3942.325	839.2915	10841.39	284.7807	1	112681.4	139707.6	11126.18	128581.4	136126	3.6217
154.479	132.8919	87.4505		6.7616	2.6449	3.2075	12053.53	5034.989	1328.611	2300.666	4154.266	833	11391.84	283.6517	0.9281	114817.4	142392.9	11675.49	130717.4	138634.6	3.1614
146.0266	109.4933	86.8957		5.8335	2.3888	2.8297	11517.09	5236.074	1348.583	2096.934	3585.472	848.0248	9842.024	282.9803	0.9491	117845.7	143870.7	10125	133745.7	140611.4	2.7986
141.7798	147.5051	88.3752		6.6363	2.8039	3.4421	11323.84	5062.126	1331.306	1453.626	4241.777	833	11664.89	284.1379	1	113396.5	141245.5	11949.03	129296.5	137399.1	3.3881
146.5554	120.9412	86.5696		6.2002	2.5031	2.9983	11334.73	5156.617	1340.691	1485.246	4117.175	833	11310.11	283.1948	0.9666	115979.9	143473.2	11593.3	131879.9	139741.3	2.9583
145.1526	78.3692	87.5838		5.0281	2.1192	2.2035	11226.05	5410.583	1365.916	2024.307	3102.54	920.708	8416.256	583.7035	0.7568	121879.9	146779.9	8999.96	137779.9	143882.8	2.1984
154.4658	102.2389	87.2518		5.3671	2.2659	2.6485	11857.28	5337.129	1358.62	1818.829	4050.587	890.1144	11129.07	282.4325	0.9708	117955.3	145266.8	11411.5	133855.3	141593.4	2.6185
138.0998	112.5615	86.6829		6.8431	2.615	2.9158	10816.84	5017.324	1326.856	2065.519	3172.137	833	8570.677	610.5318	0.7042	117952.6	143033.8	9181.209	133852.6	140078.4	2.8964
144.4261	132.1487	87.3455		6.9313	2.6645	3.2363	11531.63	4998.22	1324.959	2231.124	3742.33	833	10205.11	283.8655	0.8324	115444.3	141833.3	10488.97	131344.3	138456.9	3.194
157.3508	116.7353	86.4346		4.5665	2.4571	2.9306	12276.11	5510.598	1375.85	2020.301	4005.001	962.3642	11013.75	283.0774	1	116534.9	143731.7	11296.83	132434.9	140095.2	2.8934
143.7022	134.7739	86.8042		6.9652	2.699	3.2872	11192.63	4990.865	1324.228	1972.05	3670.487	833	10060.17	284.0001	0.9183	115268.7	141512.9	10344.17	131168.7	138183.1	3.2442
136.7026	152.7651	88.5963		7.3293	2.8672	3.5353	10994.34	4911.98	1316.393	1372.866	4158.102	833	11433.93	284.3766	0.9959	113053.9	140672.2	11718.31	128953.9	136900.1	3.4797
138.878	99.6789	88.0204		6.3414	2.4805	2.6661	10923.79	5126.041	1337.654	2181.401	3043.699	833	8241.411	677.3291	0.7321	119448.3	144267.5	8919.143	135348.3	141396.4	2.6546
151.2862	111.7004	87.8721		5.428	2.3775	2.8132	12299.14	5323.926	1357.309	2063.228	4268.063	884.6151	11737.17	282.3744	1	116678.6	144598.6	12019.91	132578.6	140729.3	2.777
154.616	96.5528	87.7776		4.338	2.1877	2.5333	12263.37	5560.109	1380.767	1878.237	4059.267	982.9854	11162.99	282.1711	1	118544.4	145889.6	11445.16	134444.4	142205.4	2.5062
156.0426	107.2325	87.1392		4.9539	2.3332	2.7478	12423.97	5426.66	1367.513	2269.08	4031.313	927.4038	11086.11	282.6594	1	117457.1	144725.9	11368.77	133357.1	141066.2	2.7152
139.6894	93.3153	88.6955		6.1448	2.4196	2.5383	11173.18	5168.637	1341.885	2466.067	2961.591	833	7993.015	727.6039	0.6903	120255.5	144876.1	8720.619	136155.5	142069	2.5312
140.8786	98.1606	88.1053		5.6244	2.2864	2.6131	11269.9	5281.371	1353.082	1907.417	3459.141	866.8911	9389.202	369.0099	0.765	119225.3	144883.6	9758.293	135125.3	141742.4	2.5911
154.7512	109.3322	86.8035		5.2374	2.3698	2.8017	12272.6	5365.222	1361.41	2369.425	3872.725	901.815	10650.01	282.828	1	117459.5	144292.4	10932.83	133359.5	140773.1	2.769
145.8989	82.2773	87.2041		4.9881	2.1261	2.2839	11671.13	5417.084	1366.561	2325.013	3237.061	923.4154	8839.967	491.1903	0.855	121243.9	146475	9331.158	137143.9	143471.3	2.2739
151.739	113.4558	87.3914		5.8916	2.4216	2.8781	12025.71	5223.492	1347.333	2306.447	3903.652	842.7846	10728.01	282.9918	0.9773	117002.1	143913.1	11011	132902.1	140368.6	2.8432
147.5496	123.3485	86.1372		6.9217	2.6648	3.1071	11243.63	5000.289	1325.164	2333.212	3349.968	833	9142.503	455.0653	0.8449	116685.3	142182.8	9597.569	132585.3	139093.4	3.0772
154.907	101.196	88.0624		4.7609	2.2644	2.6463	12346.15	5468.463	1371.665	2343.99	3815.217	944.8148	10491.85	282.4933	1	118390.2	145064.5	10774.34	134290.2	141596.2	2.6179
153.9137	121.7652	87.4252		6.2292	2.5118	3.0112	12141.91	5150.263	1340.06	2276	4140.587	833	11374.62	283.2159	0.967	115869.3	143427.1	11657.83	131769.3	139674.5	2.9706
153.5889	126.5335	86.7479		5.1726	2.575	3.1043	12028.52	5379.36	1362.815	1921.471	4055.175	907.7032	11151.73	283.4507	1	115522.3	142857.5	11435.18	131422.3	139176.5	3.062
153.5914	114.5876	87.2509		4.9919	2.3965	2.8413	12478.48	5418.411	1366.693	1800.805	4566.6	923.9683	12558.15	282.7059	1	115986.9	144727.7	12840.86	131886.9	140594.2	2.8018
146.8138	123.4874	87.0548		6.6319	2.5766	3.0985	11398.31	5063.085	1331.401	2214.67	3554.15	833	9680.441	294.3206	0.8144	116512.5	142387.3	9974.762	132412.5	139176.4	3.062
149.4615	162.2654	88.9761		5.6179	2.9721	3.69	11864.22	5282.793	1353.223	1860.259	4098.459	867.4834	11270.77	284.7447	1	112341.4	139796.9	11555.51	128241.4	136077.1	3.6307
136.2111	127.4589	87.0788		7.568	2.8251	3.1951	10643.82	4860.257	1311.256	2099.348	3137.954	833	8509.579	651.3964	0.7525	116469.4	141530.4	9160.975	132369.4	138581.5	3.1711
143.5886	116.5725	86.7183		6.023	2.4594	2.9338	11517.77	5195.009	1344.504	1806.613	3936.643	833	10818.58	327.1071	0.9771	116646.5	143648.2	11101.69	132545.6	140074.6	2.8972
136.8815	84.5661	87.3389		5.7575	2.3263	2.3566	10731.65	5252.54	1350.219	2057.285	2814.721	854.883	7649.679	786.8765	0.7826	121414.4	145750.9	8436.555	137314.4	143035.2	2.3539
138.5608	99.3348	87.7475		5.8405	2.3497	2.6431	11036.15	5234.56	1348.433	1884.171	3339.592	847.3941	9076.964	452.9288	0.7839	119202.2	144632.1	9529.892	135102.2	141564.5	2.6238
151.1744	97.5501	86.57		5.3016	2.2213	2.5827	12032.22	5351.311	1360.029	2322.234	3700.63	896.021	10132.4	282.3855	0.8994	118967.2	145282	10414.79	134867.2	141929.5	2.5568
141.1093	133.3993	86.6358		6.9154	2.6713	3.2463	10921.58	5001.663	1325.301	1504.522	3855.095	833	10541.3	283.8458	0.8762	115170.3	141895.5	10825.14	131070.3	138410.9	3.2024
159.2218	86.2498	86.2016		4.9567	2.1099	2.3612	12334.54	5426.047	1367.452	2760.754	3451.136	927.1486	9408.7	357.578	0.8286	120564.5	146230.8	9766.278	136464.5	143087	2.3444
141.7651	102.823	86.0421		5.9363	2.3739	2.7108	10735.64	5213.798	1346.37	1529.844	3404.882	838.7466	9244.507	410.8216	0.7689	118765.9	144321.2	9655.328	134665.9	141213.2	2.6882
146.6137	123.1617	85.4913		6.612	2.5861	3.0942	11267.42	5067.394	1331.829	2122.887	3510.305	833	9599.353	318.4584	0.8777	116568.2	142386	9917.811	132468.2	139193.5	3.0588
144.2639	127.4689	86.9608		6.5611	2.5796	3.1113	11508.43	5078.425	1332.925	1687.297	4174.784	833	11434.04	283.432	0.9047	115299.6	142917.1	11717.47	131199.6	139145.2	3.0677
143.0113	164.7006	86.9274		6.7122	2.9787	3.6998	11347.88	5045.696	1329.674	1393.47	4344.044	833	11946.12	284.6691	1	111850.2	139981	12230.79	127750.2	136043.9	3.6368
151.2442	179.4072	88.3635		4.345	3.1378	3.9345	12273.57	5558.577	1380.615	1763.358	4186.672	982.3471	11513.35	285.2536	1	110890.5	138589.1	11798.6	126790.5	134791.1	3.8666
156.0224	128.4332	87.4649		5.0726	2.5713	3.099	12404.63	5400.926	1364.957	1853.47	4466.591	916.6858	12283.13	283.3021	1	114805.4	143271.8	12566.43	130705.4	139226.7	3.0527
141.779	134.3388	87.1206		6.9878	2.6911	3.2756	11168	4985.978	1323.743	1901.684	3721.593	833	10175.1	283.9588	0.8743	115255.1	141614.2	10459.06	131155.1	138247.4	3.2324
154.3764	177.241	87.1625		5.5625	3.0966	3.8738	12246.21	5294.788	1354.415	1889.537	4432.991	872.4793	12190.73	285.0163	1	110772.2	139147.9	12			

TABLE 1

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
155.6635	109.9333	88.2504		5.2871	2.3514	2.7746	12439.76	5354.464	1360.342	2097.636	4327.984	897.3343	11901.96	282.6314	1	116774	144858.6	12184.59	132674	140936.3	2.739
154.697	164.5585	87.4793		5.2949	2.9971	3.727	12150.73	5352.778	1360.174	2058.615	4080.531	896.6319	11221.46	284.8345	1	112177.7	139584	11506.3	128077.7	135880.1	3.6668
152.2467	164.997	87.4738		3.473	3.0063	3.7405	12423.68	5747.512	1399.381	1794.569	4019.177	1061.039	11052.74	284.8892	1	112216	139453.6	11337.63	128116	135804	3.6808
145.4188	129.1412	87.5442		6.6461	2.6017	3.1437	11382.67	5060.006	1331.095	1611.912	4144.654	833	11347.39	283.5149	0.8982	115184.7	142715.6	11630.91	131084.7	138971.6	3.0985
146.3302	108.507	87.5258		6.0865	2.4129	2.819	11477.47	5181.252	1343.138	2215.467	3502.614	833	9497.999	344.0219	0.7518	118078	143820.1	9842.021	133978	140651.9	2.912
153.5786	129.189	87.9394		5.2685	2.6023	3.1447	12268.48	5358.485	1360.741	2123.418	4124.831	899.009	11343.29	283.5176	1	115182.2	142709	11626.8	131082.2	138966.3	3.1005
150.3362	147.7171	87.2001		7.5148	2.8406	3.496	11577.01	4871.802	1312.402	2381.356	3776.448	833	10326.73	284.4401	0.877	113985.1	140496.3	10611.17	129885.1	137080.6	3.4465
140.1503	152.0458	87.0252		6.9066	2.8613	3.5266	10732.34	5003.569	1325.49	1036.237	4132.046	833	11363.13	284.3669	1	113146.3	140693.8	11647.49	129046.3	136944.5	3.4715
150.0775	102.8795	87.6408		5.5984	2.2948	2.6911	11833.19	5287.019	1353.643	2217.634	3703.648	869.2434	10113.47	282.6345	0.8539	118403.2	144699.3	10396.1	134303.2	141352.8	2.6626
153.2343	164.1242	86.8601		5.7875	2.9706	3.688	11948	5246.035	1349.572	1726.291	4371.926	852.1734	12022.81	284.632	1	111862.6	140070	12307.44	127762.6	136108.3	3.6249
142.2048	123.1274	88.1453		6.3933	2.5426	3.0566	11447.27	5114.781	1336.536	1841.073	3919.88	833	10752.59	283.3914	0.9346	116038.4	142974.4	11035.98	131938.4	139421.9	3.0169
148.3756	142.6227	85.8238		7.0735	2.7494	3.3617	11685.13	4967.411	1321.899	1908.593	4252.229	833	11677.6	283.9579	0.9594	113813.6	141675.2	11961.55	129713.6	137824.7	3.31
148.8005	163.5482	88.2345		5.9203	2.9951	3.7239	11613.31	5217.271	1346.715	1837.533	3969.599	840.1933	10916.4	284.8719	1	112392.4	139493.7	11201.27	128292.4	135888	3.6654
152.7455	144.1089	88.6402		6.8643	2.7476	3.3591	12261.63	5012.745	1326.401	2176.297	4511.192	833	12405.65	283.8568	0.9992	113350.4	141939.9	12689.5	129250.4	137855.1	3.3044
152.3994	119.9689	87.8059		5.0705	2.4707	2.9507	12168.7	5401.383	1365.002	1640.389	4443.048	916.8759	12218.38	282.9841	1	115632.5	144033.9	12501.37	131532.5	140009.7	2.9091
149.1256	133.6641	87.7443		5.9349	2.6804	3.2598	11609.26	5201.112	1346.402	2069.552	3738.314	838.8777	10280.30	292.915	1	115269.9	141734.2	10564.28	131169.9	138333.5	3.2166
151.74	129.2152	88.3177		5.4452	2.5766	3.1068	12344.82	5320.205	1356.939	1854.84	4527.776	883.0654	1245.39	283.2988	1	114653.4	143288	12734.69	130553.4	139188.7	3.0597
148.1304	116.8682	87.9513		5.8089	2.4627	2.9387	11716	5241.414	1349.113	1931.768	3941.46	850.2488	10839.02	283.1547	1	116607.3	143629.4	11122.13	132507.3	140049.2	2.9018
149.5079	109.0797	87.1311		5.9116	2.38	2.8168	11750.25	5219.159	1346.903	2275.897	3665.307	840.9796	10000.21	282.9334	0.8403	117809.6	143992.8	10283.14	133709.6	140682.6	2.7856
151.4026	108.387	86.6314		6.2509	2.4638	2.8228	11693.98	5145.631	1339.6	2602.845	3370.904	833	9160.609	438.236	0.7816	118201.4	143700.3	9598.845	134101.4	140610.4	2.7988
148.6304	116.8429	87.2058		5.954	2.4607	2.9359	11788.01	5209.964	1345.99	2024.612	3968.29	837.15	10911.61	283.101	0.9945	116574.2	143668.9	11194.71	132474.2	140065.4	2.8988
149.5327	120.9647	88.769		6.0472	2.4996	2.9932	12153.02	5189.769	1343.984	2210.812	4173.451	833	11476.67	283.164	0.9981	115896.9	143556.7	11759.83	131796.9	139771.3	2.9528
136.3355	109.9842	86.8144		6.3911	2.5069	2.8567	10848.52	5115.265	1336.584	1845.34	3316.328	833	9025.674	477.6095	0.8029	118077.1	143480.4	9503.284	133977.1	140421.3	2.8335
145.3592	174.7805	88.5806		7.0581	3.0633	3.8246	11745.32	4970.737	1322.229	1665.459	4551.899	833	12517.73	284.8595	1	110819.3	139521.9	12802.59	126719.3	135400.7	3.7548
153.9214	100.779	87.8893		5.3751	2.2524	2.6286	11407.63	5335.258	1358.434	2480.928	3941.672	889.335	10812.22	282.4205	0.9343	118271.2	145265.9	11094.64	134171.2	141694.5	2.5999
143.4345	211.5421	85.9626		7.419	3.4294	4.3646	11201.42	4892.549	1314.463	1563.415	4195.989	833	11538.97	286.206	1	108601	136326.2	11825.18	124501	132519.6	4.2834
152.6831	91.4293	86.5555		5.0171	2.1317	2.4506	11924.08	5412.969	1366.153	2043.977	3777.284	921.7016	10315.99	282.0669	0.8562	119547.9	146046	10598.06	135447.9	142634.5	2.4274
142.4968	74.233	85.9516		5.4141	2.2083	2.1252	10941.49	5326.936	1357.608	2303.076	2666.001	885.8689	1150.037	860.968	0.6145	122924.5	146835.5	8011.005	138824.5	144256.8	2.1297
143.3772	96.4933	86.7431		5.7285	2.3145	2.5853	11265.88	5258.826	1350.843	2065.927	3330.788	857.5009	9037.036	460.5319	0.7593	119530.3	144927.9	9497.568	135430.3	141870.6	2.5676
146.0263	177.4376	87.4625		6.2959	3.0954	3.872	11420.25	4702.555	1295.592	1707.706	4479.398	833	12297.77	284.9693	0.9525	110711.9	139194.6	12582.76	126611.9	135144.3	3.8018
152.2929	115.8973	87.7289		5.9526	2.4324	2.8941	12309.87	5210.265	1346.02	2268.529	4245.784	837.2754	11663.81	282.9222	0.9674	116298.7	144145.4	11946.73	132198.7	140299.7	2.8558
149.6458	119.303	87.2989		6.3191	2.5087	3.0065	11756.99	5130.859	1338.133	2346.939	3706.064	833	10145.79	283.3495	0.8967	116704.7	143033.9	10429.14	132604.7	139676.7	2.9702
142.9188	109.371	87.4053		6.1508	2.4407	2.8375	11131.77	5167.336	1341.756	1937.681	3449.997	833	9392.743	373.8226	0.8081	118023.9	143690.5	9766.565	133923.9	140546.7	2.8105
156.188	154.2529	87.0456		4.385	2.8986	3.5816	12364.07	5549.916	1379.755	2108.36	3945.303	978.7401	10849.6	284.5613	1	113190	140224.2	11134.16	129090	136640.1	3.5274
152.1485	106.4147	87.2619		5.6271	2.3222	2.7315	12136.89	5280.805	1353.026	2188.024	4046.378	866.6551	11096.43	282.622	0.9289	117536.2	144815.3	11379.05	133436.2	141152.4	2.6994
139.7669	92.8639	85.7897		6.0486	2.3916	2.5261	10682.09	5189.462	1343.953	1896.67	3017.006	833	8136.156	689.1665	0.6804	120256.8	144982.1	8825.322	136156.8	142412.1	2.5179
147.6382	87.7863	86.2447		4.8903	2.1078	2.3912	11466.84	5440.437	1368.881	1822.467	3499.915	933.142	9589.279	313.7666	0.9117	120321.3	146124.4	9903.045	136221.3	142936.6	2.372
152.2297	166.0608	86.8427		5.7909	3.0295	3.7746	11798.93	5245.308	1349.5	2092.58	3857.676	851.8709	10608.61	285.0312	1	112323.5	139117.1	10893.64	128223.5	135610.5	3.7163
138.3442	112.9662	87.5455		6.1284	2.4347	2.8974	10962.3	5172.174	1342.236	1606.407	3606.483	833	9819.8	283.1379	0.8096	117499.9	143502.9	10102.94	133399.9	140250.7	2.8648
153.7916	109.6923	87.6229		5.5865	2.3556	2.7808	12182.04	5289.597	1353.899	2065.034	4201.191	870.3172	11552.31	282.683	0.9955	116972.7	144707.7	11834.99	132872.7	140898	2.7461
140.7321	111.7565	87.5469		6.1393	2.4514	2.8812	10953.36	5169.828	1342.003	1722.086	3484.444	833	9525.299	337.1796	0.8729	117734.5	143497.6	9863.109	133634.5	140322.7	2.8516
147.2651	113.4872	87.1733		6.0195	2.4219	2.8786	11901.31	5195.783	1344.581	2204.704	3921.24	833	10730.64	282.9927	0.8898	116997.6	143911.3	11013.63	132897.6	140366	2.8437
154.6049	129.8954	86.6759		5.2216	2.6203	3.1712	12415.6	5368.661	1361.752	2403.118	3976.825	903.2472	10936.27	283.6271	1	115309.3	142429.2	11219.9	131209.3	138817.5	3.1278
144.5929	135.0524	87.8923		6.4787	2.6623	3.2332	11414.55	5096.28	1334.698	1489.281	4259.287	833	11713.04	283.6685	1	114470.2	142366.9	11996.71	130370.2	138505.2	3.1851
153.3127	130.4889	87.4495		6.4311	2.5969	3.1368	12042.29	5106.593	1335.723	1918.939	4446.034	833	12224.78	283.3921	0.993	114644.2	143052.3	12508.17	130544.2	139026	3.0896
155.3077	138.8724	86.5045		3.9842	2.7222	3.2315	11996.06	5636.752	1388.38	1531.333	4022.686	1014.907	11062.4	283.9484	1	114429.6	141675.9	11346.35	130329		

TABLE 1

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
138.052	123.8258	86.8213		6.5508	2.5623	3.0856	10707.69	5080.663	1333.147	1299.559	3759.321	833	10264.45	283.5155	0.8523	116205.8	142653.8	10547.96	132105.8	139258.4	3.0469
144.9147	79.0814	86.5422		5.8208	2.3203	2.2441	11106.37	5238.826	1348.856	2659.177	2608.338	849.1709	6996.019	922.2211	0.6156	122341.5	146159.7	7918.24	138241.5	143610.9	2.2483
154.0179	142.6726	86.8897		5.1119	2.7668	3.3873	12139.91	5392.415	1364.111	2065.552	4002.669	913.1407	11007.4	284.1032	1	114117	141308.5	11291.5	130017	137673.8	3.3377
152.5773	110.0767	88.467		5.6836	2.3901	2.8316	12197.18	5268.557	1351.809	2623.345	3689.913	861.554	10146.86	282.9511	0.9975	117633.7	143963.5	10429.81	133533.7	140606.2	2.7996
137.9262	174.8876	86.6395		8.2706	3.1083	3.8908	10893.42	4708.035	1296.137	1658.584	3995.665	833	10980.71	285.2373	0.9769	111466.6	138632.5	11265.95	127366.6	135006	3.8272
150.1914	139.055	87.4122		6.2757	2.7083	3.3011	11799.32	5140.258	1339.066	1827.193	4257.802	833	11708.96	283.8194	1	114113.8	142006.6	11992.78	130013.8	138146.1	3.251
147.9323	96.2828	87.9177		5.2905	2.2203	2.5694	11680.43	5353.727	1360.269	2141.871	3525.531	897.0275	9657.503	298.0462	0.9079	119340.4	145195.9	9955.549	135240.4	141991.2	2.5455
139.5407	84.5947	87.3614		6.0676	2.3871	2.364	10991.49	5185.364	1343.546	2535.557	2692.024	833	7215.836	894.4518	0.6082	121573.6	145583.9	8110.288	137473.6	142973.2	2.3653
142.9276	163.7724	87.334		6.4364	2.9947	3.7234	11396.79	5105.436	1335.608	1715.948	4004.801	833	11013.21	284.8567	1	112332	139530.1	11298.06	128232	135893.2	3.6644
147.5277	182.3836	88.4114		6.8432	3.1526	3.9564	11682.83	5017.301	1326.854	1752.831	4350.839	833	11964.81	285.2327	1	110482.4	138632.4	12250.04	126382.4	134689.1	3.8854
154.3624	100.9596	87.1442		5.4709	2.273	2.659	11854.45	5314.647	1356.387	2290.775	3609.894	880.7505	9891.563	282.5843	0.9135	118721.3	144795.5	10174.15	134621.3	141520.4	2.6319
132.2901	120.4061	87.1153		6.9738	2.659	3.0567	10211.27	4989.003	1324.043	1362.127	3301.094	833	8949.007	510.172	0.748	117035	142394.1	9459.179	132935	139349.2	3.0303
142.6129	166.5747	86.742		7.8876	3.0128	3.75	11049.88	4991.028	1304.308	1571.323	4148.07	833	11404.02	284.8593	0.9885	111937	139525.9	11688.88	127837	135763.2	3.6883
148.3529	114.1639	88.9664		5.5997	2.4051	2.8539	11975.01	5286.735	1353.615	1731.108	4332.424	869.1251	11914.17	282.8051	1	116346.2	144443.2	12196.97	132246.2	140517	2.816
148.0214	129.946	88.7553		6.5185	2.6115	3.1583	11924.04	5087.653	1333.841	2144.647	4122.898	833	11333.94	283.5491	0.986	115116.2	142633.7	11617.48	131016.2	138894.1	3.1138
138.0739	142.714	87.9472		6.6921	2.7819	3.4095	10945.92	5050.052	1330.107	1540.098	3790.667	833	10424.34	284.2505	1	114380.9	140989.4	10708.57	130280.9	137542.3	3.3618
153.0595	111.4769	87.3055		5.5668	2.401	2.8477	11664.61	5293.854	1354.322	2125.409	3816.935	872.0903	10496.57	282.9489	1	117316.8	143996.3	10779.52	133216.8	140526.3	2.8143
144.9806	211.1522	86.3145		8.2455	3.4135	4.3411	11415.46	4713.465	1296.676	1831.017	4339.307	833	11933.1	286.0872	1	108471.7	136590.9	12219.18	124371.7	132657.5	4.2581
150.5602	93.1991	88.7457		4.5307	2.1317	2.4507	12613.03	5518.349	1376.619	2107.828	4242.645	965.5924	11667.28	281.938	1	118646.9	146496.1	11949.21	134546.9	142649.6	2.4246
154.3196	151.0714	88.3069		3.3189	2.8698	3.5391	12536.63	5780.907	1402.698	2010.808	3865.274	1074.948	10629.51	284.4961	1	113558.8	140372.8	10914	129458.8	136859.6	3.4871
157.2946	101.2619	86.982		5.3937	2.2496	2.6245	12211.73	5331.372	1358.048	2112.027	4120.564	887.7165	11287.45	282.3625	0.9078	117977.6	145447.4	11569.81	138877.6	141723.1	2.5947
152.2217	112.2063	87.5589		5.8165	2.3994	2.8454	12152	5239.755	1348.949	2303.386	4008.349	849.5581	11015.46	282.8861	0.9766	116985.7	144184.1	11298.35	132885.7	140547.1	2.8104
159.0978	104.5798	87.4717		5.4622	2.2813	2.6714	12566.38	5316.519	1356.573	2269.509	4340.25	881.53	11912.16	282.4021	0.9459	117314.2	145408.8	12194.56	133214.2	141483.4	2.6387
149.9372	96.6361	87.6257		5.4627	2.2429	2.5789	11845.05	5316.405	1356.562	2377.223	3511.381	881.4826	9537.808	329.3742	0.7749	119342.4	145109.6	9867.182	135242.4	141933.4	2.5561
156.7786	126.0482	86.5276		5.9777	2.5615	3.0846	12103.47	5204.821	1345.479	2141.997	4174.16	835.0081	11478.94	283.3671	1	115411.6	143073.9	11762.31	131311.6	139287.6	3.0416
156.7224	136.2659	88.5879		5.562	2.6689	3.243	12556.74	5294.898	1354.426	2263.507	4369.38	872.5249	12015.81	283.6519	1	114219.6	142419	12299.46	130119.6	138459.8	3.1935
148.5603	135.2429	87.5184		6.3252	2.653	3.2195	11683.04	5129.548	1338.003	1548.496	4431.994	833	12187.99	283.5785	1	114230.7	142602.3	12471.56	130130.7	138587.7	3.17
152.3349	121.0149	87.768		5.6565	2.4811	2.966	12145.88	5274.426	1352.392	1769.882	4483.177	863.9985	12328.74	283.0048	1	115479.1	143990.8	12611.74	131379.1	139931.1	2.9235
151.2753	101.1412	87.601		4.7699	2.2664	2.6492	12062.26	5466.527	1371.472	2112.715	3765.534	944.0083	10355.22	282.514	1	118465.6	145003.4	10637.73	134365.6	141579.1	2.6211
152.068	116.7701	86.1078		6.0546	2.459	2.9334	11776.2	5188.168	1343.825	2023.621	3985.59	833	10946.99	283.0914	0.9629	116564.1	143694.2	11230.08	132464.1	140079.2	2.8963
147.3208	140.1228	87.1293		6.8814	2.7374	3.3439	11461.93	5009.026	1326.032	1881.909	4009.962	833	11026.68	284.0033	0.9964	114334.3	141545	11310.69	130234.3	137904.1	3.2954
156.3347	107.1568	88.062		4.2728	2.3292	2.7418	12661.41	5574.224	1382.169	2229.368	4084.783	988.8641	11233.15	282.6304	1	117391.1	144806.9	11515.78	133291.1	141099.9	2.709
151.5408	111.5215	86.8222		5.9151	2.3986	2.8442	11922.04	5218.405	1346.828	2231.999	3882.138	840.6658	10636.54	282.9254	0.9117	117242.8	144062.3	10919.47	133142.8	140547.3	2.8104
148.9259	106.1518	87.7302		5.4924	2.3015	2.7011	12070.23	5309.975	1355.923	1778.296	4345.237	878.8045	11938.23	282.465	0.97	117139.6	145260.3	12220.7	133039.6	141326.4	2.6674
155.6404	119.921	87.5256		5.8749	2.4636	2.9402	12573.98	5227.096	1347.691	2202.526	4550.383	844.2856	12513.53	282.927	0.9998	115493.5	144189.9	12796.46	131393.5	140070.8	2.8979
151.8232	109.9082	86.8556		4.7265	2.3699	2.802	11808.47	5475.926	1372.406	1609.696	4000.516	947.923	11001.42	282.7902	1	117225.5	144409.7	11284.21	133125.5	140777.3	2.7682
151.4791	117.2738	86.9839		6.055	2.4505	2.9208	12006.01	5188.081	1343.816	2003.272	4235.841	833	11625.24	282.9859	0.9453	116182.7	143990.9	11908.23	132082.7	140157.6	2.8819
153.058	89.2063	86.2649		5.249	2.1781	2.428	11882.47	5362.713	1361.161	2446.081	3409.74	900.77	9236.849	402.2241	0.7383	120284.9	145824	9639.074	136184.9	142721.2	2.4115
145.8312	123.6088	85.6879		6.5366	2.5598	3.0818	11430	5083.746	1333.453	2021.907	3755.893	833	10258.9	283.5076	0.8582	116229.5	142671.9	10542.41	132129.5	139278.3	3.0433
153.2972	167.3322	84.8975		5.6822	3.0494	3.8039	11667.16	5126.864	1351.84	2014.409	3768.366	861.682	10363.01	285.1379	1	112327.6	138875.8	10648.14	128227.6	135448.2	3.7461
145.4974	131.4273	87.0233		6.6209	2.6308	3.1866	11431.79	5065.472	1331.638	1701.013	4098.669	833	11263.24	283.6211	0.9756	115012.6	142459.5	11546.86	130912.6	138742.5	3.1416
138.7347	136.7646	87.8434		7.3684	2.7956	3.3419	11229.36	4903.514	1315.552	2354.513	4220.777	833	9346.939	400.0784	0.8641	115347.4	140994.5	9747.017	131247.4	137856.9	3.3041
155.7043	99.0773	87.9821		4.3709	2.2267	2.5907	12322.8	5552.983	1380.059	2024.149	3983.593	980.0172	10954.88	282.3207	1	118377.8	145515	11237.2	134277.8	141897.7	2.5626
149.6451	93.7448	88.7002		5.0047	2.1424	2.4664	12246.26	5415.645	1366.419	1943.282	4196.1	922.8162	11501.67	281.9889	0.9198	118673.6	146357.3	11783.66	134573.6	142564.1	2.4403
149.424	209.5631	88.1026		5.3268	3.4388	4.3783	12100.54	5345.859	1359.487	2206.196	3893.247	893.7503	10706.43	286.3786	1	109062.6	135955.5	10992.81	124962.6	132416.9	4.3023
154.8087	112.383	87.5656		5.4227	2.4186	2.8737	12224.35	5325.072	1357.423	2538.829	3715.932	885.0955	10218.81	283.0389	1	117362.2	143764	10501.85			

TABLE 1

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
145.4234	135.8514	85.6645		6.9307	2.6977	3.2853	11237.89	4998.357	1324.972	1802.343	3877.217	833	10637.76	283.9216	0.9388	114900.1	141721.8	10921.68	130800.1	138206.1	3.24
140.4186	171.6162	87.82		7.9761	3.0593	3.8187	11288.82	4771.847	1302.475	1776.601	4202.894	833	11557.28	284.9896	0.9966	111474	139216.3	11842.27	127374	135404.2	3.7541
155.9996	159.3558	87.3361		3.2182	2.9809	3.7028	12619.66	5802.728	1404.865	2356.759	3569.271	1084.036	9815.505	284.9834	1	113220.3	139220.8	10100.49	129120.3	135969.5	3.6504
156.6077	105.2013	87.3973		5.4744	2.3053	2.7067	12489.16	5313.869	1356.361	2485.183	4051.371	880.4265	11136.04	282.5621	0.9826	117642	144960.6	11418.6	133542	141285	2.6751
151.0979	106.5885	86.9751		5.0825	2.3225	2.732	12183.62	5398.797	1364.745	2032.196	4070.084	915.7989	11192.74	282.6128	1	117469.9	144845.2	11475.35	133369.9	141151.3	2.6996
153.0798	126.7376	87.1901		6.3029	2.5549	3.0749	12228.53	5134.374	1338.482	2112.222	4408.456	833	12120.58	283.2686	0.9904	115040.1	143344	12403.85	130940.1	139351.2	3.0299
141.9114	111.7933	86.5806		6.4513	2.5251	2.891	11012.46	5102.216	1335.288	2010.173	3329.781	833	9066.414	467.7734	0.8096	117875.6	143309.8	9534.188	133775.6	140240.8	2.8667
140.9455	170.2276	86.7524		8.2303	3.0645	3.8262	10988.31	4716.773	1297.004	1772.718	3966.815	833	10879.43	285.1074	0.9311	111874.2	138938.7	11164.54	127774.2	135344.9	3.765
145.7348	123.8911	86.9734		6.4207	2.5498	3.0672	11628.99	5108.844	1335.946	1993.652	3955.548	833	10849.57	283.4036	0.933	115918.4	142951.4	11132.97	131818.4	139367.7	3.0269
155.826	118.4217	87.3299		5.1773	2.4655	2.943	12445.9	5378.247	1362.704	2179.908	4215.802	907.2397	11593.46	283.0387	1	116086.3	143862.8	11876.5	131986.3	140039.7	2.9035
150.795	160.5597	86.7712		6.9706	2.9526	3.6613	11697.85	4989.698	1324.112	2027.569	4121.474	833	11334.06	284.6714	1	112452.3	139971.1	11618.73	128352.3	136231	3.6024
154.5773	124.7119	86.9221		4.9485	2.5543	3.0738	12081.56	5427.829	1367.629	1922.851	4033.358	927.8906	11091.74	283.3895	1	115723.7	142998.8	11375.12	131623.7	139337.2	3.0325
140.9905	106.2114	87.3688		5.7211	2.341	2.7592	11277.41	5260.42	1351.001	1737.114	3668.706	858.1649	11064.82	282.7969	0.9026	118085.1	144314.7	10329.62	133985.1	140989.6	2.7293
144.4767	134.4134	88.0983		6.8388	2.6864	3.2685	11261.4	5018.26	1326.949	1891.489	3789.704	833	10410.31	283.9128	0.9661	115138.2	141732.4	10694.22	131038.2	138290	3.2246
140.4169	148.3098	88.3101		7.4445	2.8357	3.4888	11204.55	4887.016	1313.913	1837.437	3931.181	833	10775.3	284.3626	0.9194	113730.6	140690.2	11059.66	129630.6	137130.1	3.4374
153.0866	178.4734	86.9035		7.7265	3.0936	3.8694	12039.43	4825.934	1307.847	2050.268	4620.381	833	12706.05	284.9289	1	110461	139352	12920.98	126361	135170.2	3.7971
134.8048	148.006	86.884		7.6152	2.8487	3.5079	10443.27	4850.05	1310.242	1322.778	3725.199	833	10137.13	284.943	0.801	114045.8	140367.4	10421.63	129945.8	137017.2	3.459
143.9988	125.8027	87.1361		6.378	2.5718	3.0997	11537.05	5118.111	1336.867	1880.533	3966.543	833	10904.42	283.4702	0.9869	115709.7	142797.6	11187.89	131609.7	139196.2	3.0583
151.3318	110.5679	87.1185		5.666	2.3605	2.7881	11975.96	5272.357	1352.187	1773.537	4312.745	863.1367	11854.36	282.6664	0.9823	116733.9	144770.9	12137.03	132633.9	140864	2.7523
139.5582	121.3375	87.3219		6.9584	2.6549	3.0719	10928.47	4992.344	1324.375	2039.827	3336.922	833	9046.813	482.0063	0.749	116912.7	142341.5	9528.82	132812.7	139274.2	3.044
155.2992	130.5855	86.6411		5.0157	2.6064	3.1507	12363.42	5413.266	1366.182	1943.132	4317.014	921.8255	11871.79	283.4661	1	114802.5	142857.7	12155.26	130702.5	138945	3.1044
139.295	145.321	85.381		7.6044	2.8697	3.4842	10908.98	4852.372	1310.473	2042.274	3468.859	833	9491.99	356.7459	0.8885	114532.3	140281	9848.736	130432.3	137110.7	3.441
157.6188	158.1128	86.5202		5.6495	2.8937	3.5745	12436.03	5275.936	1352.542	1970.23	4570.694	864.6275	12569.41	284.3057	1	112105.4	140859.2	12853.72	128005.4	136721.5	3.5124
145.482	118.427	87.1469		6.2095	2.4902	2.9792	11355.5	5154.611	1340.492	1804.349	3821.047	833	10481.46	283.4475	0.9346	116627.9	143292.6	10764.71	132527.9	139827.4	2.9425
145.8628	100.8317	86.8639		5.4272	2.2595	2.639	11665.41	5314.402	1356.363	1870.73	3841.269	880.6486	10490.04	282.2781	0.8551	118430	145102.5	10772.52	134330	141634.8	2.6109
143.7781	106.887	87.6798		5.8042	2.3539	2.7782	11378.76	5242.427	1349.214	1925.915	3608.531	850.6708	9857.127	282.8608	0.8595	118109.5	144149.5	10139.99	134009.5	140885.4	2.7484
150.191	120.7619	84.7517		6.1964	2.5164	3.0179	11725.93	5157.439	1340.773	2130.27	3862.445	833	10617.42	283.3201	0.9845	116332.9	143133.6	10900.75	132232.9	139624.7	2.9797
137.8234	119.2388	87.9315		6.4311	2.516	3.0172	11022.33	5106.605	1335.724	1748.885	3596.112	833	9779.768	283.4171	0.792	116888.9	142852	10063.19	132788.9	139617.2	2.9819
154.354	123.3547	87.8989		6.4014	2.5536	3.0728	12477.41	5113.039	1336.363	2811.931	3981.079	833	10930.3	283.4067	0.9538	115835.2	142948.9	11213.71	131735.2	139339.3	3.0321
147.9439	153.1497	87.491		5.8432	2.8614	3.5268	11924.16	5233.968	1348.374	1797.728	4294.947	847.1475	11181.11	284.3059	1	112852.5	140847.9	12095.41	128752.5	136954.4	3.4697
140.9288	107.4324	88.4675		6.5819	2.5423	2.8156	11434.54	5073.918	1332.477	2618.774	3174.371	833	8575.132	601.0097	0.7018	118492.1	143568.2	9176.142	134392.1	140614.4	2.7981
138.9509	120.689	86.9357		7.4309	2.7747	3.0758	10670.61	4889.972	1314.207	2163.889	3067.538	833	8276.626	710.6548	0.6868	117210.5	142097.8	8987.28	133110.5	139204.8	3.0568
154.2914	101.4516	86.5274		5.3153	2.2574	2.636	12084.45	5348.346	1359.734	2069.035	4010.545	894.786	11022.95	282.4153	0.9803	118092.4	145297.8	11305.37	133992.4	141658.6	2.6065
153.6589	151.0544	87.9551		5.2192	2.8425	3.499	12353.45	5369.172	1361.803	2073.236	4243.78	903.4603	11670.4	284.2634	1	113091.8	140946.5	11954.66	128991.8	137098.3	3.4433
155.4579	101.7038	86.9233		5.3856	2.2659	2.6485	12317.79	5333.115	1358.221	2416.57	3919.441	888.4425	10764.4	282.4702	0.9609	118197.4	145144.2	11046.87	134097.4	141588.2	2.6194
141.3114	201.4503	87.8514		6.8104	3.3452	4.2403	11329.38	5024.417	1327.561	1593.521	4148.877	833	11409.41	285.9152	1	109340.6	136936	11695.36	125240.6	133171.2	4.1639
152.2153	188.0704	86.8178		3.4556	2.3776	4.0816	12087.9	5751.284	1399.755	1503.894	3968.354	1062.61	10912.98	285.6765	1	110500.1	137598.7	11198.65	126400.1	133993.9	4.0129
145.5166	148.1164	87.7528		5.634	2.8236	3.471	11614.34	5279.303	1352.877	1655.293	4058.834	866.0297	11161.8	284.2702	1	113572.2	140918.3	11446.07	129472.2	137233.8	3.4184
142.1062	110.5498	87.257		6.7701	2.6013	2.8786	11181.13	5033.141	1328.427	2454.733	3129.827	833	8481.068	632.8358	0.7422	118192	143205.9	9113.904	134092	140272.1	2.8609
151.8335	123.9534	89.0331		5.9613	2.5301	3.0382	12203.55	5208.377	1345.832	2140.058	4270.797	836.4889	11744.69	283.2328	1	115482	143409.9	10227.92	131382	139538.2	2.9956
154.2069	118.7585	87.6413		4.5131	2.4781	2.9614	12330.53	5522.167	1376.999	1983.355	4078.828	967.1827	11216.78	283.1233	1	116237.1	143637	11499.91	132137.1	139935.2	2.9227
142.1559	129.2446	87.7782		6.7635	2.6225	3.1744	11434.9	5034.568	1328.569	1986.635	3850.124	833	10513.27	283.6865	0.8536	115570.7	142267.6	10796.95	131470.7	138792.1	3.1325
149.4234	109.0199	87.3668		5.71	2.3466	2.7676	11805.12	5262.835	1351.241	1713.133	4216.738	859.1707	11564.95	282.6522	0.9312	117034.6	144782.2	11847.6	132934.6	140968.4	2.7331
146.026	106.7978	86.9998		5.6981	2.3388	2.756	11456.77	5265.407	1351.496	1733.509	3844.112	860.2421	10535.61	282.7232	0.9175	117778.4	144496.7	10818.34	133678.4	141014.3	2.7247
154.6105	116.7377	87.0731		5.216	2.4685	2.9472	11717.18	5369.863	1361.871	1861.987	3817.716	903.7479	10498.72	283.174	1	116786.7	143468.6	10781.9	132686.7	139997.9	2.9112
155.8775	114.6383	87.105		5.5128	2.3979	2.8433	12224.83	5305.564	1358.485	1730.584	4554.234	876.9675	12524.15	282.7114	1	115998.7	144705.5	12806.86	13		

TABLE 1

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
138.649	141.9759	86.9842		7.4474	2.8199	3.4266	10829	4886.402	1313.853	1898.425	3495.324	833	9554.824	335.7586	0.8714	114815.1	140605.6	9890.582	130715.1	137421.9	3.3839
151.8509	114.6988	87.3224		5.7729	2.4204	2.8764	12125.41	5249.198	1349.887	2081.838	4189	853.491	11519.49	282.8992	0.9984	116487.9	144190.3	11802.39	132387.9	140391.1	2.8391
148.4627	147.1733	86.7923		6.6485	2.8109	3.4522	11380.72	5059.489	1331.044	1663.297	4091.894	833	11252.71	284.2159	1	113612.2	141049.2	11536.93	129512.2	137335.4	3.3988
146.2081	177.1203	88.0872		6.0852	3.1158	3.9019	11542.53	5181.551	1343.168	1606.214	4176.598	833	11485.65	285.1854	1	111080.5	138751.3	11770.83	126980.5	134962.3	3.8352
141.5338	86.9801	88.203		5.6473	2.2812	2.3976	11151.09	5276.415	1352.59	2194.45	3060.804	864.827	8256.845	643.5078	0.6843	120900.3	145700.7	8900.353	136800.3	142835.6	2.3905
144.5662	118.3903	87.8197		6.1948	2.4822	2.9674	11589.26	5157.8	1340.809	1907.757	3947.898	833	10823.82	283.1821	0.9242	116464.7	143471.7	11107	132364.7	139896.3	2.9299
142.2674	151.2303	87.3968		7.6922	2.8861	3.5631	11269.08	4833.36	1308.584	2206.19	3685.943	833	10070.15	284.628	0.862	113796.5	140051.3	10354.78	129696.5	136718.1	3.5131
155.647	151.8837	87.5856		6.3121	2.856	3.5189	12538.55	5132.374	1338.283	2652.718	4180.177	833	11495.49	284.3316	1	113100.5	140780.3	11779.82	129000.5	136988.4	3.4634
145.3437	107.8088	85.3923		6.765	2.5937	2.8288	11212.54	5034.247	1328.537	2549.349	3065.41	833	8283.289	683.6678	0.7057	118546.9	143413.9	8966.957	134446.9	140527.4	2.8141
139.6054	112.0974	88.2769		6.2669	2.4597	2.8882	11038.85	5142.179	1339.257	1813.044	3509.368	833	9501.996	344.0755	0.7317	117707	143453.1	9846.071	133607	140283.6	2.8588
140.6591	102.1533	86.4814		5.9893	2.3942	2.7009	10842.11	5202.31	1345.23	1733.415	3325.195	833.9622	9048.485	463.4419	0.8008	118904.1	144316	9511.927	134804.1	141254.1	2.6807
137.9038	100.1616	86.4741		5.7697	2.3425	2.6576	10885.45	5249.89	1349.955	1658.787	3371.04	833.7793	9203.716	419.7839	0.8513	119068.9	144592.4	9623.5	134968.9	141494.5	2.6366
143.7454	124.4187	87.2003		6.8364	2.6354	3.1214	11472.35	5018.771	1327	2442.591	3448.99	833	9398.513	378.9109	0.8216	116504.8	142182.2	9777.424	132404.8	139034.9	3.0879
139.3806	136.1957	85.0902		7.4662	2.8153	3.3352	10795.5	4882.318	1313.447	1993.148	3371.59	833	9195.836	447.327	0.8352	115442	140985.2	9643.163	131342	137881.1	3.2997
152.9701	117.9223	87.2013		6.1646	2.4741	2.9556	12020.33	5164.327	1341.457	2295.923	3983.625	833	10922.57	283.144	0.9256	116462.5	143568.2	11205.72	132362.5	139961.1	2.918
152.6907	115.5292	88.4136		5.8544	2.4214	2.878	12161.18	5231.541	1348.133	1985.558	4347.81	846.1367	11953.06	282.8541	0.9822	116192.7	144328.6	1225.91	132092.7	140389.9	2.8393
158.4476	95.2051	88.1099		5.0604	2.1638	2.498	12783.48	5403.581	1365.22	2524.52	4170.368	817.7914	11441.74	282.065	0.9383	118546	146169.8	11723.81	134446	142395.9	2.4712
146.3053	99.5454	88.5758		5.5062	2.2768	2.6378	11601.03	5306.998	1355.627	2156.481	3502.358	877.5646	9584.355	317.8968	0.8898	119007.8	144810.1	9902.252	134907.8	141622.5	2.6131
147.7289	130.0816	87.7267		5.9033	2.5983	3.1389	11891.49	5220.957	1347.082	1729.941	4349.777	841.7286	11961.89	283.4288	1	114806.1	142951.4	12245.32	130706.1	139007.9	3.0926
145.0374	159.5035	85.8849		6.7275	2.9482	3.6548	11400.55	5042.37	1329.344	1762.603	4031.23	833	11085.89	284.6924	1	112648.2	139918.8	11370.58	128548.2	136258.6	3.5974
141.0599	155.5504	87.2628		7.4297	2.8927	3.5729	11309.25	4990.233	1314.233	1652.025	4217.755	833	11597.61	284.4377	0.9947	112747.9	140530	11882.05	128647.9	136705.1	3.5154
158.5449	136.9535	86.6691		5.367	2.6839	3.2651	12751.32	5337.152	1358.622	2499.207	4264.215	890.1238	11726.59	283.7373	1	114292.9	142203.2	12010.33	130192.9	138337.1	3.216
144.8348	88.1199	87.0354		5.3836	2.23	2.4135	11401.2	5333.55	1358.265	2209.84	3208.919	888.6236	8749.661	522.7931	0.8308	120586.5	145759	9272.455	136486.5	142774.2	2.4018
148.9187	150.345	87.7991		6.558	2.8457	3.5036	11653.63	5079.106	1332.992	1914.402	4092.133	833	11253.37	284.3306	1	113340	140777.7	11537.7	129240	137063.7	3.4496
147.8147	89.085	88.1574		4.3206	2.1009	2.4051	11981.49	5563.876	1381.141	1955.766	3694.152	984.5541	10158.92	281.9706	1	119894.4	146235.3	10440.9	135794.4	142874.4	2.3834
144.7099	145.0789	87.0076		6.1658	2.7886	3.4193	11585.2	5164.07	1341.431	1766.281	4078.419	833	11215.66	284.1474	1	113810.7	141210.5	11499.8	129710.7	137508.7	3.368
149.1324	134.2893	86.6983		5.6038	2.6714	3.2465	11840.5	5285.843	1353.526	1940.758	3989.615	868.7538	10971.44	283.7918	1	114886.9	142042.1	11255.24	130786.9	138419.1	3.2009
138.3218	79.4491	87.0136		5.7083	2.2846	2.247	10807.62	5263.209	1351.278	2196.592	2735.217	859.3265	7310.543	848.777	0.5757	122173.3	146232.6	8159.32	138073.3	143606.1	2.2941
146.263	110.1758	86.7564		5.9145	2.385	2.8241	11699.75	5218.535	1346.841	2065.464	3826.196	840.7197	10451.8	282.9004	0.8596	117471.8	144106.5	10734.7	133371.8	140651	2.7914
144.5287	106.0564	86.854		5.7243	2.3379	2.7547	11465.78	5259.725	1350.932	1905.57	3689.676	857.8755	10095.61	282.7813	0.8875	118076.8	144355.2	10378.39	133976.8	141014.4	2.7247
141.9328	97.8372	86.7894		5.9289	2.3726	2.618	11146.98	5215.397	1346.529	2111.931	3231.71	839.4128	8777.42	530.8216	0.7738	119469.9	144678.2	9308.242	135369.9	141681.8	2.6022
156.6637	134.1412	88.1578		5.7996	2.6444	3.2068	12555.52	5243.421	1349.313	2339.22	4370.48	851.0846	12018.83	283.5717	1	114409.2	142611.6	12302.4	130309.2	138651.5	3.1583
149.0586	123.9148	86.5679		6.4919	2.5599	3.082	11556.59	5093.417	1334.414	2089.057	3804.705	833	10420.15	283.4886	0.9042	116122.5	142726.1	10703.63	132022.5	139280.6	3.0428
154.3349	118.0101	85.604		4.6461	2.4818	2.9669	11915.85	5493.351	1374.137	1828.295	3862.884	955.1805	10622.93	283.2042	1	116600	143406.2	10906.14	132500	139895.5	2.93
154.0394	110.1509	86.1064		5.8491	2.3697	2.8016	12061.22	5232.698	1348.248	2148.434	4083.224	846.6188	11163.16	282.7717	0.8733	117120.2	144466.2	11445.93	133020.2	140781.7	2.7674
153.7685	168.5405	87.7867		4.9169	3.018	3.7578	12329.36	5434.678	1368.309	1854.786	4338.844	930.7432	11931.82	284.7993	1	115552.9	139669.5	12216.62	127452.9	135737	3.6931
141.1154	110.0836	87.0425		6.0752	2.4263	2.8484	11099.63	5183.705	1343.382	1839.518	4398.029	833	9544.717	331.4065	0.8418	117901.5	143677.6	9876.123	133801.5	140498.5	2.8194
152.9521	124.3389	88.4075		6.2078	2.5444	3.0592	11964.36	5154.97	1340.528	2115.207	4118.657	833	11325.87	283.3289	0.9976	115646.8	143156	11609.2	131546.8	139419	3.0175
153.7199	104.8188	87.104		5.5982	2.3205	2.729	12026.98	5287.05	1353.646	2421.402	3693.623	869.2564	10137.76	282.7182	0.9466	118185.6	144506.1	10420.47	134085.6	141151.8	2.6995
154.3563	217.878	86.9891		5.4053	3.4555	4.403	12103.81	5179.342	1342.948	1839.843	4506.675	833	12393.36	286.1448	1	107849.9	136429.4	12679.51	123749.9	132347.9	4.315
144.6726	100.6724	86.6442		5.4683	2.6896	2.654	11511.53	5315.201	1356.442	1955.231	3601.672	880.9813	9863.846	282.5757	0.9037	118766.4	144812.8	10146.42	134666.4	141546.7	2.627
148.8125	135.8514	87.2318		5.7975	2.6872	3.2699	11936.71	5243.867	1349.357	2065.637	4024.576	851.2707	11067.59	283.8321	1	114699.6	141951	11351.42	130599.6	138297	3.2233
138.2917	137.295	87.476		7.0572	2.7206	3.3191	10946.44	4970.942	1322.249	1626.086	3797.162	833	10386.69	284.0304	0.9058	114885.5	141456.2	10670.72	130785.5	138021.3	3.2739
147.7773	115.5042	87.4503		6.101	2.4611	2.9363	11793.31	5178.124	1342.827	2350.115	3687.247	833	10116.7	283.1929	0.9392	117097.1	143397	10399.89	132997.1	140049.2	2.9018
140.2933	134.5045	86.3519		6.9958	2.7027	3.2926	11259.88	4984.248	1323.571	2147.178	3569.882	833	9777.074	284.0486	0.9043	115425.9	141387.1	10061.12	131325.9	138148.4	3.2506
143.5982	84.1123	87.5732		5.6985	2.3015	2.3434	11404.28	5265.317	1351.488	2653.447	2871.824	860.2047	7773.81	754.6835	0.7284	121422.8	145851.3	8528.494	137322.8	14310	

TABLE 1

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
155.5382	152.047	85.846		6.5453	2.8867	3.5639	11812.78	5081.854	1333.265	2383.448	3779.214	833	10392.84	284.5851	1	113581.6	140159	10677.43	129481.6	136722	3.5123
145.7278	107.1431	87.1292		5.6035	2.3248	2.7355	11733.26	5285.915	1353.533	1658.708	4164.318	868.7836	11433.16	282.5949	0.9534	117292.1	144907.8	11715.75	133192.1	141136.5	2.7023
154.1187	124.1647	87.7617		5.5009	2.5444	3.0592	12299.5	5308.142	1355.741	2270.808	4084.764	878.0411	11233.11	283.3399	1	115707.9	143124.4	11516.45	131607.9	139417.2	3.0178
148.9055	132.2753	86.8414		6.6907	2.6429	3.2045	11668.26	5050.344	1330.136	1984.569	4068.216	833	11174.74	283.672	0.9647	114976.2	142334.6	11458.41	130876.2	138646.1	3.1593
145.8315	86.94	87.9889		5.2602	2.1924	2.3854	11755.01	5360.294	1360.921	2464.525	3263.504	899.7625	8888.259	486.4777	0.8135	120673.9	145948.7	9374.736	136573.9	142930.9	2.373
153.7325	186.176	87.0319		6.0221	3.2094	4.0399	12056.46	5195.208	1344.524	2184.755	4096.977	833	11266.69	285.5271	1	110492.2	137944.4	11552.22	126392.2	142225.8	3.9704
156.7696	146.2856	86.8464		3.5737	2.8097	3.4506	12618.14	5725.692	1397.213	2073.509	3967.777	1051.951	10911.39	284.2581	1	113844.3	140940	11195.65	129744.3	137336.1	3.3996
150.7935	147.3394	87.7322		6.8686	2.7922	3.4248	12181.9	5011.805	1326.308	2226.403	4382.386	833	12051.56	284.0479	1	113234.9	141470.5	12335.61	129134.9	137499.7	3.3696
140.6209	196.8901	87.6778		7.0052	3.3082	4.1856	11301.28	4982.198	1323.367	1658.736	4101.981	833	11280.45	285.8504	1	109712.7	137179	11566.3	125612.7	133455.8	4.1177
151.9794	124.1393	86.1247		5.7173	2.5495	3.0668	11936.68	5261.244	1351.083	2065.736	3998.115	858.5079	10994.82	283.3853	1	115824.8	143003	11278.2	131724.8	139372.6	3.026
143.0377	117.3491	87.9958		6.3135	2.4835	2.9694	11314.66	5132.072	1338.253	1871.791	3737.546	833	10165.78	283.2627	0.794	116888.6	143237.7	10449.05	132788.6	139874.1	2.9339
153.5044	141.1652	87.0917		5.3962	2.7222	3.216	12407.46	5330.814	1357.993	2025.457	4043.709	887.484	12110.2	283.813	1	113742	142036	12394.02	129642	138046.3	3.2693
156.6123	105.1128	86.1591		5.3725	2.3072	2.7094	12164.51	5335.953	1358.503	2182.931	3995.495	889.6246	10987.5	282.5838	0.9992	117726.1	144896.2	11270.08	133626.1	141268.4	2.6781
154.6597	170.5682	86.9873		7.3773	3.038	3.7873	11963.91	4901.581	1315.36	2168.792	4343.175	833	11943.73	284.8626	1	111389.3	139517.9	12228.6	127289.3	135581.5	3.7216
146.8763	116.8011	89.2287		6.0615	2.4487	2.9181	11846.7	5186.666	1343.676	1912.271	4169.09	833	11437.17	283.0014	0.9363	116321	14391.2	11720.17	132221	140168.5	2.8799
155.3237	116.7506	88.301		3.5456	2.4819	2.9671	12599.34	5731.795	1397.82	2415.029	3596.203	1054.493	9889.57	283.2894	1	117083.3	143156.2	10172.86	132983.3	139881.5	2.9326
154.3114	128.1341	87.2292		6.3271	2.5731	3.1016	12207.12	5129.123	1337.96	2120.95	4384.088	833	12055.3	283.3564	0.9958	114941.5	143180.2	12338.63	130841.5	139208.4	3.0561
146.5669	99.102	87.4971		5.7083	2.3154	2.6344	11314.28	5263.203	1351.278	2026.345	3412.135	859.3239	9284.097	397.5363	0.7993	119157.6	144739.3	9681.634	135057.6	141622.7	2.6131
136.7217	124.2419	89.1753		7.0193	2.6876	3.1248	10958.67	4979.15	1323.065	2092.211	3329.246	833	9074.715	476.1131	0.8257	116617.6	142068.4	9550.828	132517.6	138994	3.0954
153.5487	73.3212	88.0706		4.021	1.8611	2.0515	12289.31	5628.794	1387.589	2075.055	3784.279	1011.593	10368.52	281.1563	0.9119	121636.1	148185.8	10649.68	137536.1	144757.6	2.0378
154.0896	120.7748	87.4743		4.5753	2.4977	2.9904	12111.7	5508.689	1375.66	1696.586	4167.196	961.5689	11459.8	283.1596	1	115923.4	143566.4	11742.96	131823.4	139786.3	2.9501
151.4416	126.5051	87.3864		4.976	2.5679	3.094	11786.12	5421.868	1367.037	1510.061	4159.747	925.4081	11439.31	283.3929	1	115387.5	143010.2	11722.7	131287.5	139236.7	3.0509
148.3404	173.0497	86.4082		6.1547	3.0913	3.8658	11660.2	5166.488	1341.671	1940.877	3976.16	833	10934.44	285.1881	1	111629.1	138748.8	11219.63	127529.1	135137.2	3.8031
137.345	194.7451	87.2952		8.3288	3.2852	4.1518	10733.29	4695.43	1294.885	1365.113	4142.86	833	11392.87	285.7565	1	109819.4	137398.1	11678.62	125719.4	133638.7	4.0781
155.9044	76.5584	87.5023		4.4112	1.9453	2.1436	12229.92	5544.236	1379.191	2409.228	3518.897	976.3741	9532.115	323.7692	0.7377	121670.3	147426.2	9855.884	137570.3	144253.6	2.1303
142.3457	132.1944	85.5237		6.797	2.6585	3.2275	11065.88	5027.321	1327.849	1656.096	3819.615	833	10478.54	283.8111	0.9365	115311.4	141973.8	10762.35	131211.4	138509.4	3.1844
149.9631	174.8505	86.4941		6.0763	3.1005	3.8794	12108.8	5183.459	1343.357	2260.193	4086.791	833	11238.68	285.1727	1	111359.6	138783.4	11523.85	127259.6	135073.9	3.8147
149.664	102.4947	87.2496		5.6192	2.2941	2.6901	11739.35	5282.498	1353.194	2206.487	3627.807	867.3603	9884.856	282.6652	0.8201	118560.2	144627.7	10167.51	134460.2	141354.8	2.6622
143.4146	114.5652	88.2046		5.963	2.4302	2.8908	11528.52	5208.022	1345.797	1735.188	4001.175	836.3413	10987.58	282.9912	0.9582	116763	143933.6	11270.57	132663	140305.6	2.8548
148.4654	171.6209	88.4131		6.6583	3.0386	3.7882	11866.33	5057.375	1330.834	1772.538	4470.581	833	12294.1	284.8128	1	111157	139635.9	12578.92	127057	135586.8	3.7206
142.6817	106.1077	85.4434		6.192	2.4408	2.7789	10957.77	5158.397	1340.868	1863.009	3360.499	833	9106.612	451.3132	0.7429	118460.1	143918	9557.925	134360.1	140841.3	2.7565
149.0236	73.1486	87.6858		4.5405	1.982	2.0772	12030.41	5516.227	1376.409	2520.958	3250.107	964.7085	8808.548	483.0291	0.7445	122375.3	147566.9	9291.578	138275.3	144575.9	2.0712
155.5503	140.7484	87.1547		5.4425	2.7392	3.3466	12401.71	5320.79	1356.997	2351.358	4087.258	883.3091	11239.96	283.9815	1	114180.2	141604.2	11523.94	130080.2	137894.6	3.2972
146.7938	118.6196	87.902		6.4415	2.5184	3.01	11458.68	5104.336	1335.498	2228.164	3555.687	833	9668.011	297.5198	0.7893	116988.6	142854.2	9965.603	132888.6	139646.3	2.9757
152.3841	110.2233	87.0864		5.376	2.3486	2.7705	11299.86	5335.205	1358.429	1774.039	4440.876	889.313	12212.41	282.5888	1	116590	144985	12495	132490	140962.9	2.7342
153.8192	126.3994	86.594		6.0087	2.5452	3.0605	12096.41	5198.122	1344.814	1821.35	4497.128	833	12367.1	283.2076	1	114953.7	143504	12650.31	130853.7	139431.8	3.0151
135.2764	147.4693	87.6946		7.9528	2.9245	3.5235	10525.19	4776.899	1302.976	1762.162	3448.151	833	9324.685	411.8565	0.7155	114385.8	140022.4	9736.541	130285.8	136888.2	3.4818
147.3177	105.7155	89.1259		5.1396	2.3209	2.7297	12027.99	5386.41	1363.515	2072.924	3892.497	910.6398	10704.37	282.6595	1	117806.1	144693.1	10987.03	133706.1	141156.4	2.6986
152.7607	112.9546	87.5582		5.0675	2.4049	2.8535	12477.93	5402.049	1365.068	2315.965	4075.7	917.1533	11208.18	282.8829	1	116815.2	144206.2	11491.06	132715.2	140507.3	2.8178
143.278	140.3393	87.7094		5.438	2.743	3.3521	11499.85	5321.77	1357.095	1571.48	3963.789	883.7173	10900.42	284.0381	1	114373.3	141457.8	11184.46	130273.3	137857.5	3.304
151.3895	107.8396	88.6626		5.6003	2.34	2.7579	12044.78	5286.603	1353.602	2080.539	4052.964	869.07	11139.66	282.6764	0.9806	117367.8	144690.2	11422.34	133267.8	141013.3	2.7249
135.5419	124.284	85.6711		7.3578	2.7705	3.1357	10218.7	4905.814	1315.781	1600.089	3162.016	833	8586.899	623.2775	0.7718	116758.2	141868.4	9210.176	132658.2	138903.6	3.112
139.7169	78.9556	88.3157		4.8562	2.0739	2.2097	11500.15	5447.828	1369.615	2092.719	3251.769	936.2201	8833.395	487.3632	0.7761	121647.6	146868.4	9320.758	137547.6	143868.1	2.2011
150.9927	83.4129	87.4391		3.9814	1.9986	2.2543	12225.01	5637.36	1388.44	4104.22	1015.161	11286.61	11286.61	281.5357	1	119943.1	147411.2	11568.14	135843.1	143687.4	2.2342
145.2952	123.4715	86.0678		6.6636	2.58	3.0987	11227.44	5056.228	1330.72	2052.678	3552.812	833	9658.897	300.7455	0.7874	116520.4	142380.1	9959.642	132420.4	139174.1	3.0624
149.8274	151.0518	87.3802		6.1641	2.8606	3.5256	11727.54	5164.449	1341.469	1996.034	3990.587	833	10974.11	284.4182	1	113405.5	140564	11258.53	129305.5	136939.9	3.6723
151.																					

TABLE 1

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
147.0058	139.6723	85.7791		7.1505	2.742	3.3506	11284.15	4950.733	1320.242	1892.59	3885.581	833	10633.56	284.0697	0.8906	114556.3	141373.9	10917.63	130456.3	137859.5	3.3036
150.667	100.5071	86.8748		5.456	2.2525	2.6288	12187.06	5317.874	1356.708	2336.98	3891.404	882.0944	10618.64	282.4407	0.8426	118399	145200.1	10901.08	134299	141691.1	2.6005
147.3853	96.7233	87.3008		5.3156	2.2137	2.5714	11794.67	5348.286	1359.728	2148.969	3640.929	894.7611	9937.003	282.3794	0.8456	119157.2	145276.6	10219.38	135057.2	141987	2.5462
148.071	146.2256	87.1487		6.0806	2.7866	3.4166	11751.78	5182.541	1343.266	1703.539	4287.439	833	11790.46	284.0646	1	113449.3	141423.8	12074.52	129349.3	137357	3.3628
146.3889	96.216	88.349		4.9687	2.193	2.541	11518.11	5243.448	1367.194	1529.076	3870.327	926.0659	10643.37	282.2398	0.9997	118849.3	145674.9	10925.61	134749.3	142157.9	2.5149
153.5682	125.8257	87.2027		5.9516	2.5354	3.0461	12199.33	5210.491	1346.004	1860.083	4543.311	837.3697	12494.11	283.1609	1	114946.2	143623.5	12777.27	130846.2	139510.5	3.0007
147.8641	83.2664	87.6044		5.0447	2.1289	2.3042	11741.88	5406.976	1365.558	2362.624	3285.521	919.2057	8935.244	469.7614	0.7923	121090.1	146395.1	9405.005	136990.1	143367.6	2.2929
154.0032	156.1308	87.9136		6.7095	2.8893	3.5679	12078.76	5046.267	1329.731	2119.558	4348.207	833	11957.57	284.3765	1	112539.5	140681.5	12241.95	128439.5	136740.8	3.5089
148.6612	117.5	87.0383		6.0967	2.4728	2.9536	11626.82	5179.055	1342.92	1959.822	3910.019	833	10740.68	283.1606	0.9657	116592.9	143516.7	11023.84	132492.9	139968.2	2.9167
144.2055	119.0385	87.9178		5.8106	2.5005	2.9945	11564.2	5241.027	1349.075	1953.625	3768.386	850.0875	10363.06	283.2968	1	116625.2	143171.6	10646.36	132525.2	139744.5	2.9577
147.0791	128.5288	86.9334		4.6512	2.6122	3.1592	11876.11	5492.233	1374.025	1803.745	3849.388	954.7148	10585.82	283.6432	1	115603.6	142373.1	10869.46	131503.6	138874.2	3.1174
146.6832	138.1092	87.5748		5.0828	2.7315	3.3351	11824.64	5398.722	1364.738	1987.884	3755.53	915.7676	10327.71	284.0745	1	114838.9	141350.7	10611.78	130738.9	137934.7	3.2898
144.4342	109.6524	87.6415		6.403	2.515	2.8518	11582.33	5112.688	1336.328	2616.441	3281.875	833	8945.89	499.7903	0.8262	118137.4	143483.1	9445.68	134037.4	140442.5	2.8296
147.2819	142.9233	88.0936		6.8785	2.7455	3.3559	11932.99	5009.66	1326.095	2009.982	4352.251	833	11968.4	283.907	0.9983	113653.7	141806	12252.31	129553.7	137862	3.3031
145.1623	109.1072	87.0908		6.2422	2.4516	2.8353	11079.09	5147.527	1339.788	1917.802	3438.976	833	9305.772	398.1143	0.7237	118072.7	143676.6	9703.886	133972.7	140552.9	2.8094
141.4162	176.3231	87.3357		6.7817	3.1157	3.9018	11477.04	5030.627	1328.177	1805.109	4078.122	833	11214.84	285.2265	1	111256.4	138655.6	11500.06	127156.4	134954.6	3.8366
144.0531	134.0357	87.8737		6.6291	2.6497	3.2147	11611.96	5063.699	1331.462	1709.501	4272.294	833	11746.18	283.6232	0.9903	114546.7	142476.5	112029.8	130446.7	138604.1	3.167
148.2518	130.7546	85.2388		6.5555	2.6342	3.1917	11405.62	5079.648	1333.046	1836.541	3921.383	833	10782.34	283.6921	0.9935	115302.1	142268.1	11066.03	131202.1	138705.9	3.1483
146.2887	71.3458	88.0588		4.4668	1.9659	2.037	11937.88	5532.197	1377.995	2454.738	3199.591	971.3601	8694.514	504.8006	0.7807	122648.4	147747.7	9199.314	138548.4	144786.5	2.0325
148.4727	179.7034	87.216		4.6573	3.1744	3.9883	11803.01	5490.924	1373.896	1825.481	3756.54	954.1698	10330.48	285.5572	1	111371	137887.1	10616.04	127271	134469.8	3.9256
146.3847	179.2161	88.0982		6.1638	3.1678	3.9785	11799.6	5164.514	1341.475	2278.974	3779.634	833	10394	285.5253	1	111381.6	137961.2	10679.52	127281.6	134523.4	3.9158
151.2043	96.9746	88.1803		5.3278	2.2128	2.5701	12099.66	5345.637	1359.465	2370.497	3728.407	893.6579	10160.01	282.3541	0.8217	119015.8	145358.2	10442.36	134915.8	141996.8	2.5444
144.3797	107.767	86.1255		5.6719	2.3443	2.7641	11302.82	5271.082	1352.06	1448.946	3966.127	862.6057	10888.84	282.7174	0.953	117501	144572.5	11171.56	133401	140976.4	2.7317
134.1981	92.7468	85.812		7.1198	2.6772	2.5603	11097.73	4957.373	1320.902	2379.108	2305.347	833	6182.619	1200.904	0.6142	120971.1	144254.6	7383.523	136871.1	141877.8	2.5663
151.0663	150.5593	85.6536		5.8753	2.8515	3.5121	11665.72	5227.012	1347.683	1801.057	4043.722	844.2505	11120.24	284.3679	1	113381.7	140686.3	11404.6	129281.7	137015.2	3.4585
147.814	95.0327	87.9451		5.5561	2.2691	2.5519	11780.18	5296.183	1354.553	2467.175	3387.209	873.0603	9201.357	416.1752	0.7762	119636.6	145154.1	9617.532	135536.6	142058.2	2.5332
143.6827	170.5213	87.0657		8.0899	3.074	3.8402	11281.08	4747.197	1300.026	2126.362	3872.498	833	10646.83	285.1737	0.9898	111951	138783	10932	127851	135264	3.7799
153.6486	128.0847	86.6843		5.2062	2.6035	3.1464	11948.57	5371.989	1362.082	2006.376	3901.485	904.6332	10729.08	283.5966	1	115577.4	142490.1	11012.68	131477.4	138945.1	3.1044
148.2154	113.6448	86.1833		5.5689	2.4197	2.8754	11570.77	5293.395	1354.276	1675.418	3973.783	871.8988	10927.91	282.9632	1	116884.5	143995.3	11210.87	132784.5	140386.6	2.8399
148.9523	144.5848	87.5082		5.8908	2.7632	3.3821	12062.51	5223.67	1347.351	1884.261	4362.367	842.8586	11996.51	283.9611	1	113496.7	141677.2	12280.47	129396.7	137724.1	3.3285
154.983	128.1956	87.5983		6.3388	2.59	3.1266	12262.53	5126.595	1337.709	2431.765	4131.46	833	11361.35	283.475	0.9989	115266.2	142811.1	11644.82	131166.2	139062.6	3.0828
153.789	149.3452	87.4082		4.706	2.8473	3.5059	12481.5	5480.359	1372.846	2360.695	3915.835	949.7694	10768.55	284.402	1	113644.3	140597.3	11052.95	129544.3	137039.3	3.4541
151.9295	85.8726	85.9022		4.6316	2.0336	2.3059	12034.17	5496.477	1374.447	1666.852	4137.907	956.4828	11335.2	281.6467	0.9082	119636.5	147153.3	11616.85	135536.5	143413.8	2.2844
152.4272	159.354	86.4574		4.9943	2.9606	3.673	11950.43	5417.908	1366.643	1997.457	3842.664	923.7585	10567.33	284.8075	1	112889.2	139641.4	10852.14	128789.2	136148.1	3.6176
149.7803	134.2462	88.3377		5.4435	2.6587	3.2278	12158.97	5320.565	1356.975	2022.835	4173.376	883.2152	11476.78	283.6863	1	114654	142314.4	11760.47	130554	138528.8	3.1808
143.3843	108.9103	87.1798		6.3665	2.4957	2.8362	11298.32	5120.592	1337.113	2292.403	3313.211	833	9002.9	482.9459	0.7802	118197.1	143582.9	9485.846	134097.1	140529.5	2.8137
139.2288	170.4465	86.8955		8.0062	3.0492	3.8037	10980.09	4765.316	1301.826	1494.264	4183.687	833	11502.31	284.964	0.9896	111588.9	139276.2	11787.28	127488.9	135481.9	3.7399
153.5437	174.0728	87.4849		6.8182	3.0659	3.8285	12338.61	5022.726	1327.393	2323.039	4430.455	833	12183.75	284.9177	1	111016	139384.6	12468.67	126916	135371	3.7602
151.9356	135.8788	87.4296		6.1791	2.6596	3.2292	12008.17	5161.194	1341.146	1827.509	4443.327	833	12219.15	283.5958	1	114159.2	142561.9	12502.75	130059.2	138537.3	3.1792
145.1429	139.5772	88.6283		6.9627	2.7237	3.3237	11703.68	4991.424	1324.284	2029.127	4123.848	833	11329.3	283.9187	0.9685	114243	141756.3	11613.22	130143	138018	3.2745
155.5501	143.1082	86.0114		6.877	2.7356	3.3414	12112.11	5009.988	1326.127	2016.793	4524.198	833	12440.7	283.8135	0.9962	113420.7	142045.2	12724.52	129320.7	137949.2	3.2872
154.2464	173.3538	87.1587		4.5004	3.1351	3.8832	12310.17	5524.924	1377.272	2174.364	3863.283	968.3308	10624.03	285.2742	1	111738	138547.3	110909.3	127638	135032.6	3.8218
142.9881	189.2301	86.9935		5.6556	3.2235	4.0609	11456.58	5274.613	1352.411	1290.934	4272.549	864.0764	11749.51	285.4974	1	110069.6	138004.6	12035.01	125969.6	134130.6	3.9878
150.0368	111.6461	86.5388		5.8858	2.4124	2.8646	11602.36	5224.733	1347.457	2122.706	3662.162	843.3012	10060	283.0358	0.9662	117515.9	143758.9	10343.04	133415.9	140429.5	2.832
142.8926	84.4054	86.3542		5.3308	2.1907	2.3349	11282.96	5345	1359.402	2084.004	3199.164	893.3926	8613.119	549.837	0.6602	121074.4	146137.4	9162.956	136974.4	143187.8	2.3259
141.2781	109.5096	87.175		5.9375	2.3908	2.8326	11321.33	5213.552	1346.346	1948.395	3572.394	838.6444	9756.731	282.9696	0.8567	117886.5	143826.2	10039.73	133786.5</		

TABLE 1

yield draws	crude oil price draws	corn acres draws	No mandate																		
				Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
153.3046	110.8052	86.5941		5.7779	2.3814	2.8189	12155.38	5248.128	1349.78	2294.194	4008.235	853.0454	11010.68	282.8271	0.9662	117129.7	144323.2	11293.51	133029.7	140687.8	2.7846
136.3876	116.0134	89.0039		6.6792	2.5905	2.9729	10908.33	5052.833	1330.383	1982.008	3308.101	833	9012.192	487.3238	0.8176	117458.9	142858.4	9499.516	133358.9	139800.5	2.9475
155.9452	111.4736	87.4705		3.7198	2.4034	2.8512	12323.9	5694.045	1394.07	2019.74	3775.272	1038.77	10382	282.9696	1	117373.9	143938.9	10664.97	133273.9	140505.8	2.818
153.0581	157.8629	87.2036		5.266	2.9128	3.6026	12185.95	5359.025	1360.795	1887.912	4276.983	899.2338	11761.71	284.4804	1	112484.1	140430.3	12046.19	128384.1	136552.6	3.5434
142.399	158.0368	87.5172		7.4844	2.9135	3.6036	11108.2	4878.389	1313.057	1388.978	4292.773	833	11804.31	284.4767	0.9962	112450.9	140439.7	12088.79	128350.9	136548.4	3.5442
150.7108	145.0312	86.3429		5.1285	2.782	3.4098	11828.07	5388.824	1363.755	1597.718	4164.133	911.6453	11451.37	284.0946	1	113707.2	141342.7	11735.46	129607.2	137565.1	3.3576
143.7038	121.9366	87.5385		4.596	2.5172	3.0192	11383.7	5504.191	1375.213	1060.552	4082.048	959.6957	11225.64	283.2514	1	115924.8	143333.7	11508.89	131824.8	139629	2.9789
155.0692	94.0385	86.4955		5.0823	2.1573	2.4884	12123.04	5398.825	1364.748	2049.79	3991.863	915.8106	10924.76	282.0937	0.8912	118941.5	146048.4	11206.86	134841.5	142440.9	2.463
140.3602	132.3493	88.1088		7.2372	2.7685	3.2679	11083.23	4931.943	1318.376	2238.798	3359.109	833	9195.915	444.9218	0.8966	115802.3	141343.1	9640.837	131702.3	138239.7	3.2338
138.8607	144.825	86.92		7.7726	2.8837	3.4782	10669.25	4815.933	1306.853	1853.584	3457.884	833	9382.767	391.9234	0.7606	114605.4	140280.1	9774.691	130505.4	137133.6	3.4368
149.9212	142.0528	87.6947		6.8422	2.7118	3.3063	11857.14	5017.529	1326.876	1577.638	4700.098	833	12922.39	283.6746	0.9903	113290.1	142396.2	13206.06	129190.1	138145.2	3.2512
149.6739	99.3171	87.3412		5.3856	2.2378	2.6071	11873.02	5333.115	1358.221	2035.447	3855.799	888.4422	10538.04	282.3999	0.868	118567.8	145288.2	10820.44	134467.8	141805.1	2.5796
149.6465	141.6696	87.844		5.1248	2.759	3.3758	11705.86	5389.626	1363.834	1687.56	3950.863	911.9791	10864.88	284.0961	1	114271.3	141320.3	11148.97	130171.3	137731.4	3.3271
147.4892	162.9755	87.7909		4.6804	2.9867	3.7115	11751.44	5485.912	1373.398	1535.876	4002.175	952.0825	11005.99	284.8311	1	112399.7	139590.5	11290.82	128299.7	135956	3.6529
148.7127	100.2528	87.8277		5.1324	2.2483	2.6225	11778.37	5387.989	1363.672	1837.555	3875.857	911.2973	10658.6	282.4224	0.9999	118405.8	145246.8	10941.03	134305.8	141724.9	2.5943
141.0132	93.4385	88.2816		5.392	2.2418	2.518	11161.56	5331.738	1358.085	1807.068	3374.803	887.8688	9228.933	407.7187	0.8779	119806	145342.6	9636.652	135706	142240.6	2.4997
138.2625	155.8387	87.1703		7.681	2.9157	3.6068	10907.51	4835.79	1308.826	1575.249	3952.645	833	10848.45	284.6181	0.9462	113057.4	140090.5	11133.07	128957.4	136506.7	3.5518
158.4731	192.2717	86.9334		4.4293	3.2354	4.0784	12786.75	5540.313	1378.801	2022.803	4468.09	974.7405	12287.25	285.4508	1	109629.5	138102.2	12572.7	125529.5	134055.1	4.0017
148.0135	125.0056	87.29795		5.934988	2.573398	3.063085	11703.81	5214.086	1346.399	2013.211	3857.985	870.1302	10570.48	334.8542	0.91932	116085.2	142890.5	10905.34	131985.2	139380.1	3.024593

TABLE 2

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
149.3976	153.238	87.0669		7.1206	2.8312	3.4825	12054.91	4957.196	1320.884	1817.45	4724.379	833	12992.01	284.0473	0.9997	112315.3	141491.4	13276.05	128215.3	137217.8	3.4214
150.9763	134.3386	88.7765		5.7875	2.6536	3.2204	12186.37	5246.042	1349.573	2070.571	4266.005	852.1763	11731.52	283.6377	1	114526.1	142441.3	12015.15	130426.1	138573.6	3.1726
143.4316	98.2405	87.4119		5.7884	2.3314	2.6203	11237.42	5245.856	1349.555	2036.773	3351.179	852.0988	10993.634	447.405	0.7612	119371.1	144758.2	9541.039	135217.1	141686.9	2.6013
154.0182	87.8167	88.4692		4.6774	2.0718	2.3623	12350.3	5486.566	1373.463	2220.447	3915.465	952.3547	10761.03	281.8254	0.9787	119720.5	146663.4	11042.85	135620.5	143108.7	2.3404
155.6236	130.9441	87.9271		4.6558	2.6355	3.1935	12414.2	5491.24	1373.927	2256.731	3936.006	954.3014	10824.02	283.6912	1	115264.7	142272.5	11107.71	131164.7	138696.9	3.15
144.0749	134.3943	86.8879		6.8877	2.6706	3.2453	11517.93	5007.66	1325.896	1911.544	4037.83	833	11055.89	283.7784	0.8997	114837.7	142077.4	11339.67	130737.7	138427.2	3.1994
157.9638	107.4119	88.03		3.5783	2.3247	2.7352	12805.52	5724.696	1397.114	2007.285	4222.892	1051.536	11612.96	282.5751	1	117174.3	144969.8	11895.53	133074.3	141140.6	2.7015
148.4493	142.1046	87.0739		6.7808	2.7592	3.3761	11713.67	5030.83	1328.198	2100.265	4019.381	833	11053.3	284.0721	1	114146.1	141383.5	11337.37	130046.1	137734	3.3266
140.9131	163.9635	88.7388		8.06	3.0048	3.7382	11105.31	4753.661	1300.668	1902.915	3913.065	833	10717.74	284.9331	0.9056	112445.5	139348.2	11002.67	128345.5	135806.4	3.2803
151.3027	115.6253	86.7323		6.0523	2.4492	2.9188	11684.29	5188.662	1343.874	2005.162	3911.594	833	10734.71	283.0828	0.944	116781.7	143699.5	11017.79	132681.7	140152.9	2.8828
144.9954	122.0301	87.4763		6.4537	2.5462	3.0617	11414.05	5101.692	1335.236	2090.295	3651.823	833	9996.152	283.4933	0.8947	116509.4	142689	10279.65	132409.4	139380	3.0246
139.5499	108.9955	87.0647		6.1205	2.4521	2.8322	10910.13	5173.883	1342.406	1766.099	3392.745	833	9287.492	403.1332	0.8957	118096.8	143687.5	9690.625	133996.8	140568	2.8066
138.3716	151.9983	87.6467		7.2761	2.8475	3.5064	11063.49	4923.514	1317.539	1279.973	4316.464	833	11869.01	284.2526	0.9946	112923	140976.2	12153.26	128823	137064.1	3.4496
139.4801	95.5514	88.1259		5.4202	2.2375	2.5577	11086.67	5325.63	1357.478	1639.829	3476.413	885.3251	9469.107	346.8904	0.815	119486.1	145202.1	9815.997	135386.1	140204.2	2.5361
144.6487	117.7522	87.1718		5.4605	2.4662	2.944	11595.24	5316.889	1356.61	1571.685	4066.372	881.6842	11182.52	283.0882	1	116352.3	143717.9	11465.61	132252.3	140027.1	2.9059
139.1734	68.3946	85.5808		5.4675	2.216	2.0065	10574.25	5315.369	1356.459	2281.375	2337.999	881.0511	6235.746	1032.634	0.5525	124043.4	147211.8	7268.379	139943.4	144872.1	2.0168
152.0039	87.376	87.7827		4.9837	2.1086	2.3832	11968.77	5420.199	1366.871	2341.673	3513.318	924.7129	9539.614	325.9053	0.7699	120386.5	146152.1	9865.519	136286.5	142976.4	2.3647
158.1802	146.8442	87.9729		3.3502	2.812	3.4539	12864.94	5774.119	1402.023	2190.743	4023.931	1072.12	11065.81	284.2448	1	113725.6	140975.7	11350.06	129625.6	137322.1	3.4022
145.0376	141.4828	86.9308		6.5434	2.7262	3.3274	11550.06	5082.268	1333.307	1501.326	4398.158	833	12094.94	283.8278	1	113721.2	142000	12378.76	129621.2	138015.3	3.275
137.3051	99.4768	87.8318		6.291	2.4624	2.66	10739.88	5136.951	1338.738	1942.626	3086.561	833	8340.764	650.5127	0.7062	119436.9	144328.2	8991.277	135336.9	141433.9	2.6477
157.0183	134.6131	85.8616		6.5865	2.6443	3.2067	12194.25	5072.931	1332.739	2099.073	4454.862	833	12249.36	283.5425	0.9939	114258.5	142691.4	12532.9	130158.5	138657.1	3.1573
148.1074	112.8532	87.4783		5.994	2.4081	2.8583	11513.05	5201.296	1345.129	1706.305	4024.778	833.5398	10996.44	282.9171	0.8628	116930.1	144109.4	11279.35	132830.1	140478.6	2.823
140.1639	195.2319	87.5491		7.7438	3.2785	4.142	11281.23	4822.174	1307.473	1641.67	4274.914	833	11756.02	285.6761	1	109636.7	137578.4	12041.7	125536.7	133702.2	4.0664
155.3134	126.5133	86.7112		5.1402	2.5509	3.0689	12644.2	5386.289	1363.503	2152.685	4429.135	910.5893	12180.12	283.2483	1	115032.5	143395.9	12463.37	130932.5	139384	3.0239
147.6712	101.0302	86.6095		5.5482	2.2734	2.6595	11642	5297.884	1354.722	2071.209	3642.412	873.7685	9921.551	282.5824	0.8155	118698.5	144802.6	10204.13	134598.5	141517.9	2.6323
154.7548	72.9442	86.6623		4.2569	1.9152	2.0641	12211.16	5577.672	1382.512	2443.616	3415.064	990.3004	9316.619	369.9407	0.8389	122199.1	147785.7	9686.56	138099.1	144667.6	2.0544
145.8128	131.1625	87.5276		6.4707	2.6327	3.1894	11565.52	5098.018	1334.871	1878.903	4018.725	833	11051.4	283.6536	0.9993	115137.1	142372.2	11335.05	131037.1	138723.4	3.1451
151.4643	147.6451	86.5202		5.8523	2.8204	3.4663	12019.52	5231.994	1348.178	2160.153	4030.875	846.3254	11084.91	284.27	1	113647.7	140916.9	11369.18	129547.7	137257.1	3.4141
146.8922	132.9313	86.2498		6.8131	2.664	3.2356	11416.76	5023.83	1327.502	1961.546	3868.884	833	10614.71	283.8123	0.9385	115179.1	141977.6	10898.52	131079.1	138469.4	3.1917
153.5234	129.9593	87.8296		5.4963	2.6093	3.155	12192.8	5309.139	1355.84	2088.689	4158.682	878.4562	11436.38	283.5291	1	115066.5	142686.4	11719.9	130966.5	138913.7	3.1102
156.9089	142.5046	87.5687		6.9085	2.7482	3.3599	12228.33	5003.166	1325.45	2420.239	4244.48	833	11671.76	283.9548	0.9971	113826.6	141682.3	11955.72	129726.6	137833.8	3.3083
144.6961	127.2633	87.2995		4.8375	2.6073	3.152	11337.93	5451.864	1370.016	1490.242	3685.909	937.9015	10136.26	283.6822	1	115937.3	142257.3	10419.94	131837.3	138903.3	3.1121
153.7661	128.4629	86.8128		5.1823	2.5978	3.138	12163.94	5377.162	1362.596	2054.246	4061.144	906.788	11168.15	283.524	1	115333.1	142684.8	11451.67	131233.1	138998.5	3.0946
153.5561	102.5235	86.6377		5.411	2.2773	2.6653	11973.41	5327.627	1357.676	2086.744	3913.201	886.1568	10750.69	282.5094	0.9687	118117.6	145050.8	11033.2	134017.6	141499.2	2.6357
153.8637	112.6884	87.3043		5.7261	2.3857	2.8252	11948.47	5259.345	1350.894	1733.048	4345.47	857.7172	11947.06	282.7382	0.9894	116476.1	144605.9	12229.8	132376.1	140669.1	2.7881
140.5267	154.1908	87.3376		7.887	2.9212	3.6148	11016.43	4791.142	1304.391	2019.555	3666.339	833	9966.62	284.7606	0.7861	113589.2	139740.6	10251.8	129489.2	136440.7	3.564
139.5279	146.07	87.3238		7.4337	2.836	3.4891	10748.11	4889.358	1314.146	1740.485	3569.125	833	9786.935	284.4978	0.9274	114374.5	140345.9	10071.43	130274.5	137109.3	3.4422
147.2167	161.6265	87.9868		7.0778	2.9467	3.6526	11582.21	4966.474	1321.806	1709.953	4348.975	833	11959.69	284.5631	1	112090.5	140234.8	12244.25	127990.5	136293.4	3.591
153.7958	87.5213	86.9924		4.543	2.055	2.3376	12183.26	5515.676	1376.354	1754.819	4169.934	964.4792	11466.87	281.7053	0.9976	119380.5	147029.1	11748.58	135280.5	143247.2	2.315
142.4852	132.8787	87.5112		6.9925	2.6789	3.2575	11211.76	4984.958	1323.641	2010.343	3657.814	833	9966.696	283.944	0.8203	115488.3	141638.9	10250.64	131388.3	138339.2	3.2156
148.9481	111.437	89.1041		5.6323	2.3911	2.8332	12013.92	5279.666	1352.913	2135.564	3977.597	866.1809	10938.37	282.8672	0.9997	117101.6	144222.9	11221.23	130001.6	140610.7	2.7988
145.613	134.4663	87.1196		6.9243	2.6742	3.2507	11357.29	4999.733	1325.109	1796.963	4000.482	833	10939.82	283.8052	0.8777	114885.5	142009.1	11223.62	130785.5	138396.2	3.2051
152.5807	121.2804	88.6289		5.4188	2.5329	3.0243	12131.79	5520.918	1376.875	2167.811	3697.528	966.6624	10168.2	283.4284	1	116499.6	142851.2	10451.63	132399.6	139486.9	3.005
146.544	157.2633	88.1741		6.6684	2.9181	3.6104	11493.88	5055.19	1330.617	1754.246	4118.829	833	11326.78	284.5589	1	112726.4	140237.7	11611.34	128626.4	136500	3.5531
152.8763	112.577	87.0478		5.5674	2.4076	2.8575	12011.58	5293.737	1354.31	2142.743	3946.748	872.0412	10853.56	282.9313	1	117028.5	144065	11136.49	132928.5	140480.2	2.8227
147.7709	152.2561	87.0674		6.0474	2.8968	3.5789	11543.42	5189.736	1343.981	2105.242	3669.457	833	10951.01	284.6612	1	113699	139974.6	10			

TABLE 2

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
144.5259	150.5422	86.8177		5.4499	2.8373	3.4913	11462.41	5319.179	1356.837	1263.019	4238.738	882.638	11656.54	284.2483	1	113141.4	140982.2	11940.79	129041.4	137138.5	3.4359
151.3643	140.3242	87.722		6.3208	2.7306	3.3339	12018.52	5130.501	1338.097	2172.178	4142.748	833	11392.56	283.9333	1	114147.4	141723.9	11676.49	130047.4	137965.2	3.2842
137.4858	138.7261	87.7718		7.0593	2.7289	3.3313	10863.8	4970.482	1322.204	1425.131	3910.98	833	10723.7	284.0144	0.9262	114599.6	141507.3	11007.71	130499.6	137963.9	3.2844
157.9088	174.036	87.8696		5.3905	3.0535	3.8102	12707.91	5332.062	1358.117	2143.5	4584.226	888.0037	12606.63	284.8147	1	110837.9	139629.3	12891.44	126737.9	135479.6	3.7403
144.3311	133.5824	88.6395		6.6447	2.6618	3.2324	11786.64	5060.322	1331.127	2150.979	4009.217	833	11024.05	283.7536	0.9942	114927	142134.8	11307.8	130827	138494.8	3.187
150.4692	137.3594	87.4932		6.5085	2.6942	3.2802	12061.98	5089.819	1334.057	2221.984	4181.121	833	11498.08	283.8	1	114362.9	142044.8	11781.88	130262.9	138252.2	3.2315
149.2147	88.0786	86.8911		4.8303	2.0873	2.385	11876	5453.438	1370.172	2020.541	3691.291	938.5571	11005.46	281.9376	0.8969	120037	146324.4	10387.4	135937	142980.7	2.3639
148.1496	111.7586	86.3496		5.97	2.409	2.8595	11329.68	5206.509	1345.647	1780.08	3759.733	835.711	10290.97	282.9986	0.8937	117390	143864	10573.97	133290	140460.2	2.8264
156.8153	125.1213	87.2528		5.7618	2.5325	3.0418	12668.49	5251.619	1350.127	2354.407	4455.841	854.4991	12253.56	283.1801	1	115127.4	143564.1	12536.74	131027.4	139528.5	2.9973
141.4872	149.0355	87.575		7.3066	2.8292	3.4793	11397.43	4916.894	1316.881	1803.737	4124.919	833	11335.62	284.2652	0.9762	113414.6	140934.5	11619.89	129314.6	137194.1	3.4257
144.1895	104.7672	86.9868		6.2036	2.4644	2.7576	11475.38	5155.891	1340.619	2508.78	3235.093	833	8832.444	525.5631	0.8511	118693.4	143951.4	9358.008	134593.4	140939	2.7385
145.5094	114.4849	87.0839		6.4415	2.5172	2.9372	11352.08	5104.348	1335.5	2240.836	3436.393	833	9939.692	391.492	0.7833	117513.1	143144.3	9731.184	133413.1	140011.9	2.9087
151.9111	123.331	87.5112		4.3582	2.5249	3.0306	12352.73	5555.715	1380.331	1801.349	4232.176	981.1553	11638.49	283.2281	1	115592.2	143413.9	11921.71	131492.2	139576.3	2.9886
145.5125	87.9992	88.6169		4.741	2.0703	2.3601	11708.76	5472.791	1372.095	1507.287	4007.968	946.6176	10991.95	281.7992	0.9304	119577.9	146751.6	11273.75	135477.9	143122.6	2.3379
140.5736	105.9366	86.3352		5.9242	2.3856	2.7689	10715.46	5216.425	1346.631	1449.853	3460.708	839.841	9447.748	356.9801	0.8499	118367.1	144071.9	9804.728	134267.1	140915.7	2.7428
154.5385	136.8717	86.7884		6.6716	2.6708	3.2457	12220.09	5054.485	1330.547	2154.144	4445.916	833	12224.97	283.6314	0.9946	114067.9	142476.5	12508.6	129967.9	138449.9	3.1953
141.1434	116.9603	87.8597		6.059	2.4731	2.954	11229.67	5187.219	1343.731	1674.233	3789.485	833	10415.62	283.199	0.981	116805.2	143404	10698.82	132705.2	139960.1	2.9182
147.5899	162.9124	87.4625		6.1548	2.9792	3.7005	11654.76	5166.457	1341.668	1818.973	4092.664	833	11254.83	284.7705	1	112295.9	139735.5	11539.6	128195.9	136020.9	3.641
137.7406	124.4174	87.4588		6.7673	2.6332	3.1211	11121.41	5033.761	1328.489	2084.808	3439.355	833	9411.646	374.968	0.8892	116501.1	142187.7	9786.614	132401.1	139037.4	3.0875
143.2957	142.7005	87.2719		7.2362	2.7944	3.4278	11488.83	4932.146	1318.396	2390.643	3612.643	833	9919.959	284.3396	0.9566	114613.3	140717.6	10204.3	130513.3	137432.8	3.3819
143.2929	122.7861	86.3155		6.4837	2.5616	3.0846	10906.08	5095.19	1334.59	1691.78	3549.524	833	9727.747	283.5777	0.9166	116564.9	142476.2	10011.32	132464.9	139253.6	3.0478
141.9797	110.7879	86.813		5.9813	2.4168	2.8597	11400.09	5204.049	1345.402	2086.425	3527.524	834.6862	9663.958	297.9766	0.9098	117790.9	143652.8	9961.935	133690.9	140446	2.829
151.3739	107.5761	87.0107		5.7258	2.3413	2.7597	12067.07	5259.413	1350.901	2211.005	3986.009	857.7456	10913.44	282.7047	0.8988	117508.3	144604.4	11196.15	133408.3	141000.4	2.7273
136.1197	117.0685	87.6172		7.2702	2.7293	3.0083	10914.82	4924.778	1317.664	2377.46	3059.918	833	8252.073	711.0835	0.6807	117586.5	142449.6	8963.156	133486.5	139564.4	2.9908
134.8637	129.708	88.3705		7.1611	2.7176	3.2188	10747.01	4948.429	1320.013	1820.513	3423.059	833	9032.264	410.6012	0.7815	116022.7	141635.6	9712.865	131922.7	138509	3.1844
147.0606	102.9345	87.8629		5.1514	2.2599	2.6398	11819.69	5383.855	1363.261	1436.382	4324.612	909.5758	11892.68	282.3344	1	117494.4	145569.4	12175.02	133394.4	141650.3	2.608
138.0171	111.8329	87.678		6.599	2.5663	2.8969	10720.63	5070.211	1332.109	1847.058	3236.255	833	8811.549	540.5055	0.8093	117952.2	143204.3	9352.054	133852.2	140193.9	2.8753
142.6514	98.7451	86.4669		5.6579	2.3025	2.6261	11143.58	5274.123	1352.362	1821.451	3429.773	863.8722	9336.541	383.3713	0.8063	119179	144798.9	9719.912	135079	141670.1	2.6044
156.7515	99.5053	87.3241		4.918	2.2306	2.5964	12427.15	5434.443	1368.286	2276.846	4015.289	930.6457	11042.05	282.3247	1	118289.5	145513.9	11324.37	134189.5	141868.6	2.568
154.6372	132.2082	87.0574		4.1005	2.6529	3.2192	12239.57	5611.563	1385.878	1936.796	3898.92	1004.416	10722.03	283.7618	1	115195.5	142101.3	11005.79	131095.5	138558.6	3.1753
144.0936	104.1055	86.7629		5.9158	2.3668	2.7333	11465.13	5218.245	1346.812	2190.874	3466.598	840.5992	9406.6	367.444	0.7609	118575.3	144249.4	9774.044	134475.3	141103.1	2.7084
142.5699	100.0141	88.6125		5.5537	2.2686	2.6455	11269.03	5296.699	1354.605	1778.334	3564.118	873.2753	9682.856	291.7659	0.7775	118923.8	144798.4	9974.621	134823.8	141587.6	2.6195
139.83	165.9821	87.0748		6.7354	3.0445	3.7967	11077.88	5040.66	1329.174	1823.659	3649.391	833	10035.83	285.1659	1	112578.4	138799.4	10320.99	128478.4	135477.1	3.7408
154.0091	169.1177	88.4499		4.7585	3.0443	3.7965	12509.58	5468.986	1371.717	2249.137	4072.705	945.0327	11199.95	284.9931	1	111823.7	139208.7	11484.94	127723.7	135511.7	3.7344
151.7941	137.409	87.36		5.0637	2.6907	3.275	12226.84	5402.871	1365.15	1897.763	4241.564	917.4959	11664.31	283.7673	1	114281.1	142129.2	11948.08	130181.1	138283.1	3.2259
153.7616	98.4204	88.3698		4.5644	2.2046	2.5582	12280.55	5511.054	1375.895	1804.711	4224.338	962.5541	11616.93	282.1816	1	118110.2	145909.3	11899.11	130410.2	142079	2.5294
148.7717	130.466	87.3175		6.6329	2.6153	3.1639	11689.54	5062.868	1331.38	1893.798	4166.497	833	11434.56	283.5491	0.9446	115020.4	142638.6	11718.11	130920.4	138866.5	3.1188
148.3052	135.2786	87.6513		6.9302	2.6963	3.2832	11819.03	4998.454	1324.982	2462.779	3797.817	833	10418.51	283.9451	0.9361	115054.9	141657.3	10702.45	130954.9	138212.2	3.2389
142.0122	154.716	87.5326		7.88	2.9333	3.6326	11022.48	4792.668	1304.543	2125.756	3564.509	833	9726.254	284.8352	0.842	113651.5	139562.6	10011.09	129551.5	136340	3.5824
150.6393	139.7137	87.2035		5.0589	2.7246	3.325	11882.88	5403.907	1365.253	1764.054	4129.743	917.9272	11356.8	283.9181	1	114218.2	141758.9	11640.71	130118.2	138011.7	3.2757
147.6786	93.0475	87.6335		5.0091	2.1541	2.4835	11859.88	5414.695	1366.324	1984.31	3770.134	922.4203	10350.27	282.1385	0.9519	119349.7	145882.1	10632.41	135249.7	142459.5	2.4595
158.3773	87.8361	88.2037		4.8402	2.0769	2.3698	12562.61	5451.281	1369.958	2554.016	3847.694	937.6584	10488.5	281.8676	0.8266	119862.3	146532.7	10770.37	135762.3	140365.7	2.3483
141.8932	106.1242	86.4721		6.0888	2.4133	2.7758	11195.17	5180.75	1343.088	2012.01	3424.321	833	9284.951	402.0052	0.7507	118400.2	143987.2	9686.956	134300.2	140868.9	2.7514
142.9509	156.5496	85.8512		7.3534	2.9094	3.5976	10990.43	4906.772	1315.876	1398.764	4134.017	833	11368.54	284.5245	0.9999	112766.9	140320	11653.07	128666.9	136568.9	3.5404
156.0865	148.5365	88.321		5.9251	2.8241	3.4717	12326.07	5216.232	1346.612	2404.154	4117.312	839.7605	11322.61	284.2501	1	113463.2	140970.1	11606.86	129363.2	137233.9	3.4184
150.3366	121.3781	87.2078		4.3611	2.525	3.0307	12296.25	5555.093	1380.269	2133.283	3844.705	980.8962	10572.94	283.3542	1	116294.4	143050.7	10856.			

TABLE 2

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
150.4495	106.4112	87.2265		5.8635	2.3589	2.7741	11576.84	5229.568	1347.937	2200.981	3551.035	845.3149	9662.416	297.936	0.7999	118247.4	144107.8	9960.352	134147.4	140901.5	2.7454
145.0338	226.0405	85.9416		5.8911	3.5791	4.5851	11283.87	5223.592	1347.343	1584.362	3883.749	842.826	10680.31	286.8499	1	107984.5	134851.7	10967.16	123884.5	131321.4	4.5033
146.3029	108.2261	87.5501		5.7598	2.3719	2.8048	11518.08	5252.05	1350.17	2073.501	3585.684	854.6789	9846.622	282.9229	0.9582	117974.9	144004.5	10129.54	133874.9	140743.8	2.7744
146.1797	197.2865	87.4851		7.1875	3.3107	4.1894	11455.04	4942.716	1319.446	1843.731	4114.148	833	11313.91	285.8534	1	109671.1	137170.9	11599.76	125571.1	134346.9	4.1151
151.31	110.7012	89.0371		5.0695	2.3766	2.8117	12308.39	5401.602	1365.024	2158.816	4063.985	916.9671	11175.96	282.793	1	117058.1	144416.8	11458.75	132958.1	140728.2	2.7772
148.8062	87.1803	87.644		5.1568	2.1766	2.3881	11844.05	5382.702	1363.147	2486.458	3300.646	909.955	9028.935	451.9545	0.8832	120594.6	145975.5	9480.89	136494.6	142923.6	2.3744
150.043	136.0381	88.2708		6.1213	2.7087	3.3014	11829.3	5173.713	1342.389	2341.62	3736.583	833	10275.6	284.0047	1	115051.9	141511.5	10559.61	130951.9	138112.4	3.2572
150.8809	106.5683	86.7623		5.5588	2.323	2.7327	11961.78	5295.586	1354.494	1976.709	4060.18	872.8117	11156.69	282.6182	0.9737	117490.1	144829.4	11439.3	133390.1	141147.1	2.7004
159.217	168.7731	88.4943		6.1839	2.9966	3.7264	12595.19	5160.157	1341.043	2212.388	4646.601	833	12778.15	284.607	1	111168.3	140131.1	13062.76	127068.3	135926.2	3.6584
150.8427	89.089	87.607		4.7645	2.09	2.3891	12204.86	5467.687	1371.588	2098.341	3920.751	944.4916	10770.32	281.8848	0.9661	119572.1	146524.3	11052.2	135472.1	142966.6	2.3665
148.1299	114.361	84.2972		6.3053	2.5096	2.9341	11403.55	5133.855	1338.43	2273.881	3422.386	833	9377.233	380.6347	0.9124	117514.1	143172	9757.868	133414.1	140030.9	2.9052
152.6255	142.3058	88.3246		7.1217	2.7452	3.3555	12194.09	4956.964	1320.861	2412.285	4268.984	833	11703.23	283.9408	0.9227	113829.6	141716.7	11987.17	129729.6	137858.1	3.3039
140.9667	119.1603	86.6086		6.2965	2.5086	3.0063	11106.66	5135.765	1338.62	1723.68	3673.598	833	10068	283.3584	0.917	116756.6	143008	10351.36	132656.6	139675.9	2.9703
144.2828	140.1904	86.7141		6.9974	2.7299	3.3328	11553.59	4983.894	1323.536	1874.886	4136.272	833	11360.88	283.935	0.963	114173.9	141718.7	11644.82	130073.9	139790.3	3.2833
155.4112	117.0599	87.5478		6.2921	2.4822	2.9674	12127.87	5136.704	1338.713	2724.848	3692.606	833	10059.84	283.2704	0.8178	116969.2	143212.3	10343.11	132869.2	139882.8	2.9323
152.2423	76.8086	87.6268		4.5742	1.9905	2.1396	12116.96	5508.932	1375.684	2501.998	3366.679	961.6701	9119.628	417.2643	0.7374	121888.8	147325.7	9536.892	137788.8	144255.8	2.1299
143.6931	113.7101	87.6318		6.1978	2.4542	2.9158	11514.01	5157.139	1340.743	2229.901	3551.227	833	9669.417	296.7186	0.8097	117489.7	143355.8	9966.136	133389.7	140147.7	2.8837
149.9461	103.8798	86.8928		5.4541	2.2904	2.6846	12090.88	5318.288	1356.749	2126.375	4005.205	882.2668	11003.99	282.5266	0.9699	117846.5	145033	11286.52	133746.5	141399.9	2.654
136.8134	146.9344	88.1949		7.6459	2.8762	3.5096	10901.29	4843.379	1309.579	2017.332	3496	833	9557.204	335.9543	0.8723	114372.1	140165.3	9893.158	130272.1	136980.7	3.4649
140.7075	135.0393	86.7554		8.0905	2.9716	3.3358	10813.4	4747.049	1300.012	2498.846	3032.491	833	8227.016	751.4102	0.7581	115822.2	140700.7	8978.427	131722.2	137810.5	3.3126
149.4961	73.7067	87.1997		4.5935	1.9981	2.091	11828.42	5504.746	1375.268	2358.858	3227.616	959.9268	8754.685	496.0997	0.7555	122326.7	147477.5	9250.785	138226.7	144499.7	2.0852
150.7039	90.689	87.7684		5.1051	2.1615	2.4548	11872.96	5393.892	1364.258	2322.507	3476.55	913.7561	9509.049	334.712	0.8813	120018.3	145762.1	9843.761	135918.3	142593.4	2.435
144.0819	110.7844	88.1576		6.0817	2.4283	2.8611	11206.46	5182.291	1343.241	1931.298	3514.635	833	9590.642	318.6421	0.8428	117814.4	143623.7	9909.284	133714.4	140433.9	2.8312
148.6723	104.0308	87.2144		5.7056	2.3155	2.7215	11602.25	5263.781	1351.335	2102.965	3622.61	859.5646	9860.089	282.7308	0.8042	118409.1	144452	10142.82	134309.1	141187	2.693
135.1752	134.5529	86.4333		7.6081	2.8445	3.3126	10291.3	4851.573	1310.393	1615.813	3278.525	833	9815.452	534.1052	0.791	115673.9	141023.4	9449.557	131573.9	137981.6	3.2812
143.301	118.4673	87.7392		6.1002	2.4702	2.9499	11477.17	5178.295	1342.844	1567.772	4153.258	833	11405.85	283.0757	0.9595	116173.4	143762.3	11688.93	132073.4	139999.6	2.9109
145.4312	116.6619	87.101		6.1861	2.4637	2.9401	11441.27	5159.687	1340.996	1800.301	3905.29	833	10673.91	283.1379	0.8689	116708.5	143565.5	10957.04	132608.5	140038.5	2.9038
151.9867	109.8505	85.7286		5.6786	2.3799	2.8167	11672.29	5269.645	1351.917	1972.122	3814.595	862.007	10488.96	282.8795	0.9944	117486.7	144158.5	10771.84	133386.7	140691	2.784
142.5736	115.3948	87.5564		6.2538	2.4662	2.9438	11062.32	5455.019	1339.539	1732.444	3610.314	833	9817.275	283.2444	0.7904	117254.9	143255.5	10100.52	133154.9	140004.1	2.9101
158.5725	155.5131	86.2033		4.6304	2.9138	3.604	11969.26	5145.42	1370.171	1882.093	3923.024	938.5496	10788.32	284.6203	1	113111.4	140084.4	11072.94	129011.4	136520	3.5494
145.7426	94.2662	86.7669		5.4881	2.2457	2.5343	11471.01	5310.903	1356.015	2097.298	3425.598	879.1912	9285.516	393.7578	0.7465	119693.2	145272.5	9679.274	135593.2	142156.7	2.5151
141.4585	109.9175	87.8481		6.1053	2.4582	2.8494	11250.7	5177.188	1342.734	2094.186	3401.589	833	9328.047	392.2923	0.9285	117987.6	143607.9	9720.339	133887.6	140479	2.823
144.3886	166.7663	85.3163		7.2228	3.0282	3.7727	11056.69	4935.068	1318.686	1597.867	3970.074	833	10917.71	284.9815	1	112132.7	139235.4	11202.69	128032.7	135629.3	3.7128
140.0267	106.1881	88.4699		5.6213	2.3344	2.7496	11364.16	5282.059	1353.15	1690.931	3768.845	867.1776	10351.56	282.7422	0.9627	117934.3	144468.6	10634.3	133834.3	141045.5	2.719
154.6577	139.7812	86.9903		3.9407	2.7395	3.347	12399.68	5646.181	1389.316	2022.16	3921.184	1018.835	10783.26	284.042	1	114477.3	141444.6	11067.3	130377.3	137882.1	3.2995
144.4682	124.9247	86.981		6.4119	2.5522	3.0707	11488.73	5110.753	1336.136	1691.225	4115.619	833	11294.93	283.3584	0.9446	115606	143084.3	11578.29	131506	139357.2	3.0288
149.079	156.3966	86.1215		6.4643	2.9137	3.6038	11552.09	5099.412	1335.009	1828.876	4053.795	833	11147.94	284.5694	1	112877.7	142012.2	11432.51	128777.7	136530.1	3.5475
148.653	118.6719	88.2598		6.1075	2.478	2.9614	11874.76	5176.702	1342.686	2055.081	4065.288	833	11168.73	283.1287	0.9691	116269	143620.8	11451.86	132169	139934.5	2.9229
145.1694	141.361	86.6204		6.5623	2.7272	3.329	11411.49	5078.174	1332.9	1402.171	4363.243	833	11998.92	283.8436	1	113776.2	141958.9	12282.76	129676.2	138005.1	3.2769
148.1897	117.0084	87.672		5.6707	2.4431	2.9099	11919.93	5271.34	1352.086	1737.154	4294.642	862.713	11810.27	282.9407	1	116118	144111.2	12093.21	132018	140218.4	2.8708
142.5043	137.1187	86.598		7.143	2.7231	3.3227	11201.38	4952.354	1320.403	1952.252	3741.367	833	10800.36	284.0629	0.8292	114988.1	141372.6	10484.43	130888.1	137997.6	3.2783
136.3782	105.1769	87.1369		6.6005	2.554	2.7763	10796.29	5069.896	1332.078	2098.559	3060.761	833	8293.176	675.4742	0.741	118827.1	143695.8	8968.65	134727.1	140808.8	2.7624
140.9001	97.0079	87.3725		6.0823	2.418	2.6082	10996.53	5182.159	1343.228	2150.464	3085.675	833	8389.67	332.2611	0.7887	119696.2	144618.1	9021.91	135596.2	141714	2.5963
156.6287	144.73	87.3357		5.9662	2.7709	3.3933	12351.74	5207.329	1345.728	2284.448	4276.187	836.0527	11759.52	284.0172	1	113592.5	141536.1	12043.53	129492.5	137659.3	3.3404
150.4556	154.3258	86.9414		6.7402	2.8689	3.538	12026.48	5054.784	1330.577	2041.796	4364.321	833	12001.89	284.3042	1	112669.1	140855.3	12286.19	128569.1	136900.4	3.4796
135.2295	188.2843	87.6311		8.7442	3.2152	4.0486	10869.53	4605.433	1285.946	1466.438	4276.712	833	11733.81	285.4726	0.9388	110144.8	138064.1	12019.29	12604		

TABLE 2

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
148.2148	152.7066	88.0973		6.0101	2.8323	3.4841	11972.36	5197.808	1344.782	1563.474	4631.292	833	12736.06	284.0855	1	112474.2	141394.3	13020.15	128374.2	137203.1	3.424
147.4466	148.7819	87.6672		6.7215	2.8036	3.4416	11705.25	5043.684	1329.474	1653.125	4443.966	833	12220.91	284.0622	1	113035.4	141440.3	12504.97	128935.4	137415	3.3852
150.3208	94.1778	86.5147		5.356	2.2171	2.529	11767.58	5339.524	1358.858	2294.482	3481.606	891.1119	9473.867	345.0777	0.8004	119637.5	145356.5	9818.945	135537.5	142195.8	2.5079
158.6022	161.7914	88.7319		4.6978	2.93	3.6281	12732.62	5482.137	1373.023	1930.708	4594.246	950.5101	12634.18	284.4135	1	111780.6	140599.2	12918.59	127680.6	136440.7	3.5639
145.4276	74.7875	86.9166		5.1404	2.1498	2.1334	11143.24	5386.254	1363.499	2237.713	2843.201	910.5747	7710.048	735.965	0.7521	122604.6	146950.6	8446.013	138504.6	144231.8	2.1343
154.4098	98.8962	86.5018		5.2635	2.2249	2.588	12159.41	5359.571	1360.849	2163.561	3973.967	899.4613	10907.33	282.3195	0.9469	118423.7	145513.4	11189.65	134323.7	141911.4	2.5601
152.3944	96.0972	87.302		4.9987	2.1809	2.5232	11878.97	5416.958	1366.549	1700.165	4069.932	923.363	11191.02	282.1458	0.9942	118579.2	145952.4	11473.16	134479.2	142259.1	2.4963
153.5183	119.2177	87.2		5.7753	2.4849	2.9715	12059.73	5248.689	1349.836	2145.111	4060.818	853.2788	11167.25	283.1515	1	116216.4	143566.8	11450.4	132116.4	139881	2.9327
136.0391	97.5975	88.3509		6.2487	2.4425	2.6224	10881.41	5146.108	1339.647	2080.728	3079.924	833	8284.9	661.3945	0.6497	119666.1	144512.4	8946.295	135566.1	141632.6	2.9127
144.5054	132.6676	87.6563		6.9411	2.671	3.2459	11238.29	4996.104	1324.748	1949.866	3732.576	833	10188.8	283.8896	0.8482	115403.6	141776.3	10472.69	131303.6	138405.2	3.2035
155.1768	74.4032	88.016		4.5592	1.997	2.1055	12424.47	5512.17	1376.006	2921.544	3249.73	963.0187	8854.095	475.0084	0.8191	122200.4	147429.5	9329.103	138100.4	144426.5	2.0986
144.9554	113.6295	88.0888		6.4607	2.5184	2.9224	11707.51	5100.176	1335.085	2623.869	3413.383	833	9261.82	413.3562	0.7603	117624.9	143200.1	9675.176	133524.9	140085.6	2.8951
149.1907	74.5391	85.7267		4.7007	2.0276	2.1123	11570.08	5481.523	1372.962	2180.594	3182.747	950.2544	8631.366	525.529	0.7529	122271.3	147328.2	9156.995	138171.3	144380.6	2.107
148.3729	110.0979	87.1051		5.8784	2.3832	2.8215	11556.87	5226.338	1347.616	1906.069	3830.883	843.9697	10486.01	282.8908	0.8942	117462.8	144131.7	10768.9	133362.8	140665.2	2.7888
146.5328	137.2781	86.272		7.1831	2.7383	3.3431	11303.42	4943.668	1319.54	2248.412	3556.8	833	9707.185	286.8788	0.8452	115200.9	141095	9994.064	131100.9	137877.9	3.3002
144.9592	112.2366	86.2249		5.6886	2.4131	2.8655	11534	5267.48	1351.702	1872.972	3778.74	861.1052	10391.53	283.001	0.9999	117291.6	143866.1	10674.53	133191.6	140430	2.8319
145.2403	148.632	86.2931		7.4308	2.8266	3.4755	11154.74	4889.987	1314.209	1602.804	4112.742	833	11264.89	284.2662	0.906	113481.2	140930.3	11549.16	129381.2	137212.7	3.4223
149.0726	125.6679	86.8743		6.4729	2.5687	3.0951	11781.66	5097.541	1334.823	2117.054	3997.239	833	10969.02	283.452	0.9426	115691.6	142844.1	11252.47	131591.6	139221.9	3.0536
148.4016	99.4032	87.166		5.5263	2.2928	2.6372	11698.14	5302.629	1355.193	2311.186	3451.384	875.745	9463.75	349.9188	0.9267	119064	144777.6	9813.669	134964	141618.6	2.6138
143.0579	175.0736	87.5418		7.6955	3.0662	3.829	11644.96	4832.638	1308.513	1717.948	4550.858	833	12514.86	284.8694	1	110798.3	139498	12799.73	126698.3	135377.8	3.759
159.1075	112.5785	87.0529		5.1968	2.408	2.858	12306.41	5374.026	1362.285	2321.71	3940.91	905.4819	10837.5	282.9343	1	117036.3	144056.8	11120.44	132936.3	140477.1	2.8233
142.0361	145.5876	87.6589		7.3466	2.8267	3.4755	11029.28	4908.236	1316.021	1951.146	3618.878	833	9937.541	284.4461	0.9577	114348.6	140470.6	10221.99	130248.6	137180.2	3.4283
153.8639	118.6565	87.7933		5.695	2.4805	2.965	12476.35	5266.087	1351.564	2578.098	4018.076	860.5251	11049.71	283.1505	1	116328.5	143561.3	11332.86	132228.5	139913.3	2.9268
147.4593	162.7529	85.4749		5.1629	2.9939	3.7221	11410.7	5381.37	1363.014	1480.818	3874.958	908.5407	10656.13	284.9057	1	112570.9	139411.9	10941.04	128470.9	135890	3.665
152.1354	83.4632	87.8546		4.8249	2.0701	2.3005	12268.16	5454.786	1370.306	2653.286	3448.668	939.1182	9391.668	360.0793	0.8121	120897	146548.7	9751.747	136797	143409.6	2.2852
153.6468	106.7113	87.8588		5.7038	2.3329	2.7474	12083.4	5264.171	1351.374	2272.801	3933.325	859.7271	10764.26	282.693	0.8907	117672.5	144619.5	11046.95	133572.5	141063.4	2.7157
144.8288	123.6417	88.057		5.8257	2.5392	3.0516	11796.01	5237.77	1348.751	1894.005	4064.751	848.731	11178.07	283.3296	1	115784.3	143145.7	11461.4	131684.3	139456.3	3.0106
139.3582	123.3361	87.48		7.6867	2.8424	3.1288	10661.64	4834.552	1308.703	2281.877	3001.51	833	8087.296	772.7253	0.6697	117002	141762	8860.021	132902	139809.9	3.1109
147.6673	131.2784	87.0398		5.9964	2.6339	3.1913	11577.98	5200.779	1345.077	1776.411	4020.388	833.3246	11056.07	283.6572	1	115124.2	142363.9	11339.73	131024.2	138713.6	3.1469
146.9436	123.8812	86.3066		6.7408	2.5996	3.108	11183.15	5039.484	1329.057	2056.086	3523.518	833	9572.296	326.6738	0.7771	116506	142305	9898.97	132406	139118.5	3.0726
146.9777	88.3066	87.7062		5.29	2.1947	2.4126	11707.89	5353.829	1360.279	2373.275	3321.432	897.0698	9021.867	455.0621	0.7749	120466.2	145843.2	9476.929	136366.2	142792.5	2.3984
148.3414	120.1707	87.3938		6.2473	2.5192	3.022	11771.4	5146.427	1339.679	2351.544	3698.75	833	10162.27	283.3929	0.9705	116611.3	142956.9	10445.65	132511.3	139594.5	2.9853
146.1599	120.1588	87.8738		6.2971	2.4974	2.99	11434.26	5135.632	1338.607	1655.098	4069.924	833	11130.28	283.1871	0.8786	116142.9	143456.3	11413.47	132042.9	139782.3	2.9508
145.5947	94.4112	87.6058		5.5487	2.2639	2.5394	11555.16	5297.782	1354.712	2244.807	3382.13	873.7261	9174.274	422.6632	0.7562	119715.7	145212.6	9596.937	135615.7	142123.4	2.5212
154.5531	104.4566	87.552		4.9288	2.2937	2.6895	12252.03	5432.09	1368.052	2039.264	4080.96	929.6654	11222.64	282.5145	1	117675.7	145080.8	11505.16	133575.7	141377.3	2.6581
134.5151	122.2231	87.1948		7.6569	2.8264	3.1081	10357.32	4841.008	1309.344	1956.841	3015.122	833	8092.851	768.7676	0.6239	117111.8	141873.5	8861.619	133011.8	139020.9	3.0905
144.045	147.5238	88.3088		7.4953	2.8495	3.509	11291.3	4876.012	1312.821	2256.022	3611.44	833	9898.064	284.5282	0.9178	114196.2	140278.8	10182.59	130096.2	137001	3.4611
148.745	111.5613	86.7612		5.7401	2.3705	2.8028	11950.52	5256.31	1350.593	1721.727	4363.434	856.4533	11986.35	282.6844	0.9661	116568.8	144737.8	12269.04	132468.8	140788.4	2.7662
144.3622	162.4355	86.9648		7.717	2.9709	3.6882	11575.55	4827.992	1308.051	2065.545	4138.965	833	11380.3	284.7249	0.9924	112279.6	139844.6	11665.02	128179.6	136089.6	3.6284
159.4145	144.7449	86.4318		4.4161	2.7919	3.4243	12601.45	5543.187	1379.086	2324.413	3976.826	975.9376	10936.28	284.1957	1	113967.5	141087.9	11220.47	129867.5	137476.1	3.374
150.4417	148.0823	87.593		5.4746	2.8292	3.4793	11709.17	5313.828	1356.306	1782.567	3974.064	880.4095	10928.68	284.3203	1	113680.8	140793.8	11213	129580.8	137184.3	3.4275
148.1718	103.0775	88.4916		5.5642	2.2888	2.6822	11822.21	5294.426	1354.379	2039.789	3859.288	872.3282	10549.28	282.5686	0.8707	118161.2	144893.1	10831.85	134061.2	141466.3	2.6528
145.7983	99.7314	87.3451		5.4487	2.2527	2.629	11286.85	5319.439	1356.863	1638.85	3686.952	882.7462	10067.87	282.4976	0.8539	118763.7	145014.1	10350.37	134663.7	141682.3	2.6021
156.4633	116.2733	88.0869		4.8992	2.4325	2.8943	12411.79	5438.51	1368.69	1951.83	4318.419	932.3394	11875.67	282.8987	1	116157.8	144216.4	12158.57	132057.8	140302.5	2.8553
140.8108	152.7583	87.6876		5.4888	2.8838	3.5597	11305.75	5310.753	1356	1431.126	3926.743	879.1285	10798.55	284.5192	1	113339.2	140322.3	11083.07	129239.2	136754.6	3.5063
154.3805	137.7229	86.9288		5.3754	2.7029	3.2931	12321.91	5335.333	1358.442	2224.07	4112.703	889.3663	11309.91	283.8553	1	114417.8	141911.6	115			

TABLE 2

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
149.7141	102.7544	87.6546		5.5191	2.2776	2.6657	11828.78	5304.203	1355.35	1908.031	3982.798	876.4004	10891.31	282.4958	0.8775	118021.8	145095.6	11173.8	133921.8	141498.8	2.6358
157.4683	129.3443	86.7973		6.2906	2.5897	3.1262	12355.1	5137.036	1338.746	2295.989	4348.328	833	11957.89	283.4013	0.9999	114876	143017.2	12241.29	130776	139076.8	3.0802
156.898	152.6069	87.3091		5.4589	2.8326	3.4845	12698.69	5317.232	1356.644	2128.139	4612.849	881.8269	12685.34	284.0933	1	112505.2	141374.7	12969.43	128405.2	137199.8	3.4247
142.721	151.8192	87.6969		7.4216	2.8349	3.4878	11273.69	4891.988	1314.407	3155.81	4476.485	833	12278.26	284.1559	0.9327	112753.9	141216.3	12562.41	128653.9	137172.5	3.4297
154.5368	124.4433	88.7972		4.8929	2.5247	3.0303	12547.55	5439.87	1368.825	1953.15	4450.797	932.9059	12239.67	283.1563	1	115197.6	143620.5	12522.82	131097.6	139589.4	2.9862
150.467	126.959	86.4542		5.7049	2.5723	3.1005	11710.31	5263.934	1351.35	1656.663	4176.739	859.6286	11486.03	283.4016	1	115322.6	142992	11769.44	131222.6	139203.4	3.057
146.4314	138.8076	88.5788		6.3686	2.7222	3.3215	11735.4	5120.144	1337.068	2031.878	4011.314	833	11031.12	283.9526	1	114449.9	141664.9	11315.07	130349.9	138022.6	3.2737
144.0692	128.5777	85.6596		6.7291	2.622	3.1737	10964.31	5042.029	1329.31	1634.153	3723.814	833	10189.31	283.7251	0.888	115787.3	142160.3	10473.03	131687.3	138789	3.133
147.7461	126.1893	86.4809		6.6852	2.5917	3.129	11372.98	5051.531	1330.254	1994.819	3761.372	833	10245.52	283.6165	0.8154	115987.8	142416.9	10529.14	131887.8	139027.6	3.0893
159.411	140.9894	87.5158		4.7123	2.7166	3.3134	12535.51	5479.007	1372.712	1876.108	4456.476	949.2062	12255.31	283.7761	1	113690.4	142129.5	12539.09	129590.4	138093.1	3.2607
147.4708	203.6516	87.539		6.3982	3.3858	4.3001	11419.62	5113.728	1336.431	1830.826	3903.631	833	10734.99	286.1975	1	109457.9	136379.1	11021.18	125357.9	132831.4	4.2262
144.892	152.4692	87.0281		7.4752	2.8667	3.5346	11294.87	4880.38	1313.254	1740.907	4125.326	833	11330.54	284.3893	0.9624	113125.2	140640.1	11614.93	129025.2	136901.3	3.4794
150.9351	150.4456	87.5027		5.5246	2.846	3.504	12212.19	5303.005	1355.231	2173.004	4103.053	875.9015	11283.4	284.3275	1	113317.9	140785.6	11567.73	129217.9	137061.9	3.45
142.1229	112.6705	88.2791		5.9518	2.4023	2.8497	11392.72	5120.438	1346.037	1518.95	4077.948	837.3475	11158.22	282.8799	0.8878	116868.4	144209.5	11441.1	132768.4	140526.6	2.8142
137.8743	118.799	86.8111		7.4625	2.7779	3.044	10610.41	4883.128	1313.527	2167.645	3011.107	833	8102.733	758.6997	0.6541	117455.6	142217	8861.432	133355.6	139364.5	3.0275
143.134	122.5899	87.8147		6.4967	2.5418	3.0554	11220.65	5092.388	1334.312	1709.368	3849.581	833	10495.24	283.9144	0.829	116214.3	142893	10778.66	132114.3	139423.3	3.0167
149.1877	192.9648	88.039		4.8732	3.3013	4.1755	12020.36	5444.133	1369.248	2118.342	3751.961	934.6812	10317.89	285.9844	1	110386.5	136899.4	10603.88	126286.5	133477	4.1078
149.9811	92.8908	86.9561		5.1014	2.1523	2.4809	11831.49	5394.706	1364.339	1971.057	3785.291	914.0949	10326.68	282.1348	0.839	119379.4	145888.2	10608.81	135279.4	142473.2	2.457
158.5246	121.9543	87.8996		4.9061	2.508	3.0057	12666.44	5437.005	1368.54	2293.261	4233.927	931.7125	11643.3	283.1722	1	115721.2	143547.7	11926.47	131621.2	139708.6	2.9643
138.2361	115.8391	87.7025		7.0556	2.6697	2.9797	10972.53	4971.295	1322.284	2287.087	3156.866	833	8512.373	632.6446	0.6791	117631.8	142676.8	9145.017	133531.8	139733	2.9598
150.7557	100.736	86.8686		5.5691	2.277	2.6599	11606.81	5293.557	1354.273	2123.546	3561.755	871.8833	9693.307	289.034	0.8025	118842.2	144724.6	9982.341	134742.2	141511.3	2.6335
150.0452	134.7967	87.939		6.6357	2.6718	3.2471	12025.1	5062.264	1331.32	2323.734	4027.784	833	11199.8	283.7643	0.9979	114733.7	142117.2	11483.57	130633.7	138420.7	3.2006
142.7213	79.2449	86.981		4.9899	2.1095	2.2202	11266.74	5418.859	1366.738	1986.551	3168.439	924.1549	8599.3	542.767	0.7637	121702.1	146744.1	9142.067	137602.1	143801.3	2.2133
142.1114	141.9527	88.002		7.0791	2.7537	3.368	11526.96	4966.203	1321.779	1924.783	4079.199	833	11204.41	284.0341	0.9636	114090	141478.5	11488.45	129990	137780.4	3.3181
143.7125	106.7394	87.7257		6.1437	2.4384	2.79	11268.95	5168.866	1341.908	1521.612	3371.568	833	9178.183	432.0145	0.8064	118369.7	143879.9	9610.198	134269.7	140786.4	2.7665
149.0059	123.9172	87.5345		6.5476	2.5579	3.0791	11420.64	5081.362	1333.217	1918.967	3852.098	833	10507.66	283.4716	0.8371	116080.2	142771.3	10791.14	131980.2	139297.7	3.0397
150.4948	80.935	88.9183		4.545	1.9973	2.2401	12199.83	5515.24	1376.311	2406.479	3535.507	964.2976	9649.77	297.7507	0.8464	121099.6	146947.1	9947.521	136999.6	143745	2.2236
151.7411	153.3175	87.3192		6.3246	2.8731	3.544	11557.03	5129.672	1338.015	1695.989	4158.358	833	11435.49	284.3958	1	113006.7	140626.6	11719.88	128906.7	136854	3.4881
155.1523	99.1933	87.5707		5.4101	2.2452	2.6179	12312.61	5327.801	1357.694	2652.804	3686.082	886.2292	10075.33	282.4715	0.8698	118818.1	145075.9	10357.8	134718.1	141717.2	2.5912
158.8835	117.1961	87.2103		4.9318	2.4431	2.91	12469.81	5431.434	1367.987	2006.055	4332.94	929.3921	11915.6	282.9289	1	116048.1	144146.7	12198.53	131948.1	140220	2.8705
157.3741	104.1532	86.4554		4.6981	2.2806	2.6702	12573.55	5482.079	1373.017	2122.313	4243.657	950.4861	11670.06	282.4249	1	117480.8	145333.3	11952.49	133380.8	141485.8	2.6382
150.535	167.0959	87.0963		4.8428	3.055	3.8122	11907.44	5450.721	1369.902	2084.901	3662.486	937.4254	10071.84	285.196	1	112472.7	138729.7	10357.04	128372.7	135395.8	3.7557
143.5396	108.5508	88.1542		5.8276	2.3649	2.7945	11388.04	5237.35	1348.71	1751.451	3799.976	848.5562	10392.04	282.8398	0.8786	117668.7	144243.6	10674.88	133568.7	140807.3	2.7627
157.309	108.8591	87.6226		5.5844	2.3437	2.7633	12647.36	5290.041	1353.943	2510.002	4220.869	870.502	11604.28	282.6384	0.9888	117031.2	144818.1	11886.92	132931.2	140991.7	2.7289
154.6324	121.9635	86.9154		4.7405	2.5051	3.0014	12352.47	5472.893	1372.105	1876.391	4282.426	946.6598	11776.67	283.1471	1	115655.9	143615.7	12059.82	131555.9	139733.6	2.9597
135.3298	115.0106	87.1342		7.207	2.7161	2.9711	10609.12	4938.474	1319.025	2097.579	3019.04	833	8158.015	734.4902	0.7057	117828.1	142620.6	8892.506	133728.1	139758.1	2.9552
136.6864	122.4156	85.7099		6.7953	2.6124	3.0849	10822.55	5027.689	1327.886	1774.218	3457.759	833	9385.164	382.0386	0.7646	116704.9	142372.1	9767.202	132604.9	139228	3.0525
139.9296	153.5836	85.0121		7.8206	2.9166	3.6081	10911.15	4805.535	1305.821	1940.521	3624.269	833	9889.423	284.756	0.8422	113675.5	139749.6	10174.18	129575.5	136474.6	3.5577
154.4185	92.7868	87.5209		4.5289	2.1456	2.4712	12336.82	5518.73	1376.657	2217.372	3856.313	965.7512	10604.87	282.0858	1	119246	146032.9	10886.96	135146	142528.4	2.4469
147.0772	140.4612	86.9812		6.8961	2.7141	3.3096	11860.03	5005.842	1325.716	1883.996	4409.482	833	12119.21	283.7854	0.9798	113799.5	142102.5	12403	129699.5	138110	3.2576
155.761	87.7049	87.224		5.3669	2.2186	2.4038	11861.17	5337.175	1358.625	2642.464	4230.776	890.1334	8785.473	513.1773	0.7908	120622	145820.6	9298.651	136522	142827.4	2.392
152.4562	141.6147	86.5421		4.9669	2.7828	3.4107	12029.47	5423.836	1367.232	2314.344	3595.827	926.2276	9888.525	284.3045	1	114725	140797.9	10172.83	130625	137523.2	3.3653
148.9572	141.4344	87.1786		6.1198	2.7494	3.3617	11757.44	5174.004	1342.422	1954.323	4051.655	833	11142.06	284.028	1	114164.6	141490.7	11426.08	130064.6	137812.6	3.3122
152.2426	107.8029	88.383		5.6392	2.3272	2.739	12276.71	5278.17	1352.764	2099.433	4278.79	865.5578	11736.42	282.5703	0.9334	117072.5	144991.4	12018.99	132972.5	141122.5	2.7049
140.0288	166.5993	88.1936		7.0233	3.0037	3.7368	11464	4978.296	1322.98	1659.159	4268.568	833	11738.57	284.781	1	111789.7	139713.1	12023.35	127689.7	135842.7	3.6737
149.2156	83.924	87.5625		5.18	2.157	2.321	12033.38	5377.67	1362.647	2730.687	3253.375	906.9995	8803.881	502.5441	0.7242	121060.8	146267.2	9306.425	136960.8	143271.5</	

TABLE 2

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
142.5265	133.4165	88.2148		6.8065	2.6596	3.2291	11537.95	5025.268	1327.645	1926.425	4023.611	833	11036.12	283.7447	0.9327	114936.5	142156.4	11319.86	130836.5	138512.5	3.1838
153.8726	161.274	87.1202		6.2584	2.9461	3.6518	12075.56	5144.012	1339.439	2049.53	4307.58	833	11845.85	284.5775	1	112169.1	140199.5	12130.42	128069.1	136294.7	3.5907
136.4281	126.9144	87.4581		7.0386	2.6753	3.1677	10509.84	4974.964	1322.649	1526.735	3450.493	833	9347.554	395.4026	0.7387	116277.6	141920.6	9742.957	132177.6	138784.3	3.1339
157.7676	111.705	87.897		5.6419	2.3711	2.8038	12289.83	5277.593	1352.707	2012.533	4379.683	865.3173	12043.03	282.6803	0.9952	116526.3	144752	12325.71	132426.3	140784.4	2.7669
153.0318	135.2209	88.1504		6.2473	2.6567	3.2249	12001.9	5146.409	1339.677	1907.77	4373.045	833	12025.87	283.6108	1	114308.6	142518.1	12309.49	130208.6	138555.7	3.1759
151.7865	142.0169	88.226		5.4462	2.7398	3.3476	12140.09	5319.99	1356.918	1891.442	4286.765	882.9759	11788.61	283.9121	1	113815.6	141788.1	12072.52	129715.6	137902	3.2958
145.7336	113.6309	86.9588		6.2601	2.4739	2.9169	11108.44	5143.639	1339.402	1889.623	3500.777	833	9539.514	333.8363	0.8214	117538.1	143311.5	9873.35	133438.1	140133.3	2.8864
155.3838	121.5145	86.8348		5.041	2.5287	3.036	12300.72	5407.782	1365.638	2392.043	3813.712	919.5143	10487.71	283.3763	1	116322.3	142993.4	10771.09	132222.3	139526.2	2.9978
135.4981	95.8398	87.1786		6.8112	2.5853	2.6074	10621.55	5024.242	1327.543	2358.296	2676.474	833	7146.516	959.5884	0.5648	120263.5	144269.6	8106.104	136163.5	141660.2	2.6062
151.3806	114.8071	87.677		5.8994	2.4241	2.8819	12168.53	5221.788	1347.164	2203.776	4151.725	842.0749	11409.91	282.9237	0.9777	116531.1	144123.9	11692.83	132431.1	140360	2.8448
158.6446	97.216	86.9705		4.7933	2.1965	2.5462	12664.44	5461.458	1370.969	2422.169	4065.945	941.8971	11181.35	282.1983	1	118463.4	145826.9	11463.55	134363.4	142136.8	2.5187
151.9745	89.2007	88.5604		4.9242	2.107	2.4141	12299.91	5433.098	1368.152	2538.07	3628.503	930.0852	9914.273	282.0218	0.8637	120010	146106.3	10196.29	135910	142824.1	2.3926
148.8757	136.8569	85.6774		6.9574	2.6987	3.2869	11532.1	4992.554	1324.396	1940.889	4039.265	833	11073.8	283.8694	0.9233	114605.6	141863.3	11357.67	130505.6	138207.3	3.2398
156.1054	164.7239	87.4651		4.6992	2.9992	3.73	12420.07	5481.834	1372.993	2136.711	4076.147	950.384	11209.41	284.8429	1	112169.7	139563.9	11494.25	128069.7	135863.9	3.6698
143.7565	58.4484	87.3596		4.2016	1.8755	1.7425	11584.42	5589.645	1383.701	2435.255	2778.528	995.2872	7455.203	717.1548	0.6198	124885.9	148958.3	8172.358	140785.9	146327.6	1.7498
158.0473	152.997	89.0061		4.671	2.8907	3.5699	12820.21	5487.95	1373.6	2737.996	3866.635	952.9311	10633.25	284.5652	1	113393	140210.8	10917.82	129293	136696.3	3.517
145.1837	129.4574	87.6907		6.5062	2.6298	3.1851	11601.78	5090.334	1334.108	2192.81	3749.534	833	10310.71	283.736	0.9971	115646.6	142141.1	10594.44	131546.6	136870.7	3.1437
144.4571	119.5564	87.7455		6.2498	2.4881	2.9762	11538.7	5145.88	1339.625	1721.213	4096.984	833	11213.84	283.1566	0.8933	116160.8	143557.8	11497	132060.8	139856.9	2.9371
158.0217	110.0382	88.9367		5.2856	2.2456	2.6186	12648.8	5354.782	1360.374	2509.107	4125.069	897.4669	11335.91	282.3445	0.9759	117976.5	145494.8	11618.26	133876.5	141754.9	2.5888
157.2683	118.8135	85.8545		5.625	2.469	2.9481	12380.76	5281.253	1353.07	2239.13	4238.468	866.842	11655.79	283.043	1	116017.8	143856.7	11938.83	131917.8	140013.6	2.9084
150.2421	95.2606	87.8045		5.2725	2.1941	2.5425	12166.65	5357.622	1360.656	2516.634	3631.924	898.6494	9881.936	282.3188	0.8024	119347.7	145411.9	10164.25	135247.7	142140.1	2.5181
154.0035	86.4592	87.0658		4.5224	2.0394	2.3145	12172.98	5520.141	1376.797	1729.819	4177.884	966.3388	11487.37	281.6521	0.9927	119489.3	147158.3	11769.02	135389.3	143369.8	2.2925
141.0166	84.9387	86.933		4.9848	2.112	2.3354	11159.24	5419.97	1366.848	1644.953	3400.846	924.6177	9248.628	395.7342	0.7919	120776.3	146320.7	9644.363	136676.3	143216.1	2.3207
152.8895	112.8649	87.7402		5.7643	2.3917	2.8342	12295.8	5251.064	1350.072	2157.388	4281.011	854.2681	11768.25	282.7777	0.9851	116547	144498.1	12051.03	132447	140618.9	2.9973
141.4129	118.3401	85.9921		6.7801	2.6264	3.0174	10730.4	5030.978	1328.212	1846.501	3289.71	833	8981.369	498.5777	0.8507	117232.5	142612.5	9479.997	133132.5	130560.9	2.7914
155.1155	151.0242	87.4077		6.6891	2.8207	3.4669	12000.48	5050.694	1330.17	1841.957	4542.656	833	12492.31	284.0812	1	112723.9	141400.3	12776.39	128623.9	137287.6	3.4086
145.4123	122.2095	88.2165		6.2634	2.517	3.0189	11824.45	5142.936	1339.332	1962.297	4144.882	833	11382.84	283.2323	0.9595	115822.7	143388.7	11666.07	131722.7	139633.4	2.9781
146.499	149.8048	88.808		7.176	2.801	3.4379	11943.04	4945.206	1319.693	1806.27	4636.875	833	12746.46	283.9836	0.985	112711.2	141641.6	13030.44	128611.2	137447.1	3.3793
154.9215	107.0667	86.6684		5.6759	2.3404	2.7584	12251.14	5270.226	1351.975	2491.635	3873.508	862.2492	10627.43	282.7327	0.941	117704.4	144514.5	10910.17	133604.4	141002.6	2.7269
145.347	172.8336	86.5864		6.3481	3.1096	3.8926	11274.18	5124.588	1337.51	1863.379	3713.703	833	90212.69	285.358	1	111954.5	138352.6	10498.04	127854.5	134973.2	3.8322
154.8984	95.2847	86.2555		5.2103	2.1911	2.5381	11940.06	5371.103	1361.995	2223.598	3677.104	904.2645	10057.19	282.2914	0.8806	119254.3	145493.8	10339.48	135154.3	142165.6	2.5135
139.2638	117.5805	87.4241		6.6012	2.5781	2.9984	10971.65	5069.733	1332.061	1961.152	3373.705	833	9215.272	429.4382	0.8587	117237.6	142782.3	9644.71	133137.7	139677.7	2.97
146.7428	123.3769	87.2645		6.3077	2.5325	3.0417	11698.57	5126.829	1337.732	1870.771	4128.234	833	11331.3	283.2892	0.9479	115735.8	143250.4	11614.59	131635.8	139511.7	3.0004
144.4036	89.3658	89.3341		5.0875	2.1441	2.4268	11794.42	5397.706	1364.637	2228.177	3486.552	915.3445	9495.623	337.5663	0.8133	120173.9	145907.1	9833.189	136073.9	142741.8	2.4077
151.7669	111.233	86.9153		5.5553	2.382	2.8198	12102.66	5296.342	1354.569	2088.281	4088.345	873.1264	11242.95	282.8036	1	116971	144396.8	11525.75	132871	140686.6	2.7848
152.0783	131.6575	86.5005		6.188	2.6227	3.1747	11966.08	5159.268	1340.954	1969.883	4260.98	833	11717.7	283.5382	1	114776.9	142678.2	12001.23	130676.9	138815	3.1283
143.2099	98.0912	88.553		5.992	2.3849	2.6243	11267.27	5201.724	1345.171	2266.206	3218.453	833.718	8720.338	546.3777	0.7408	119461.2	144628	9266.716	135361.2	141645	2.609
153.5285	87.2295	87.2057		4.871	2.0935	2.3784	12162.45	5444.611	1369.296	2487.84	3523.819	934.8806	9632.894	302.8904	0.8717	120369.7	146205.5	9935.784	136269.7	143007.1	2.359
149.8291	103.5354	88.3303		5.6511	2.3105	2.7143	11978.56	5275.586	1352.507	2506.234	3577.749	864.4816	9772.233	282.7234	0.8581	118506.2	144461.2	10054.96	134406.2	141224.5	2.6862
146.4457	122.0222	85.5619		6.415	2.5447	3.0596	11388.02	5110.093	1336.07	2038.551	3668.304	833	10057.11	283.4811	0.9239	116480.8	142721.4	10340.59	132380.8	139392.7	3.0223
138.0678	117.9764	87.3699		6.2916	2.4912	2.9807	10892.59	5136.825	1338.725	1455.457	3726.583	833	10179.74	283.2868	0.8597	116819.5	143182.5	10463.03	132719.5	139814.4	2.9449
141.1897	131.5371	87.5603		6.8887	2.6626	3.2335	10992.16	5007.441	1325.875	1774.186	3649.659	833	9977.172	283.8879	0.8722	115608.8	141769.8	10261.06	131508.8	138466.8	3.1922
154.0714	126.7734	87.14		5.8019	2.5653	3.0921	12260.1	5242.915	1349.262	2162.645	4252.399	850.874	11694.1	283.3534	1	115240.6	143118.1	11977.45	131140.6	139262.5	3.0462
151.1559	132.3461	86.9539		6.4983	2.6305	3.1864	12153.44	5092.043	1334.277	2228.353	4263.762	833	11724.94	283.5631	0.9978	114710.5	142619	12008.5	130610.5	138753.5	3.1396
153.6761	128.1562	85.2238		5.6763	2.598	3.1382	11813.9	5270.135	1351.966	1926.998	4000.895	862.2113	11002.46	283.5449	1	115440.7	142626.7	11286.01	131340.7	139993.7	3.0955
149.4623	153.4808	87.489		5.8766	2.8657	3.5332	12101.67	5226.73	1347.655	1996.631	4284.526	844.1331	11782.45	284.3238	1	112837.7	140804.4	12			

TABLE 2

yield draws	crude oil price draws	corn acres draws	No mandate	Commodity Prices and Demand												Total ethanol demand	Total gas supply	Total fuel demand	Fuel price		
				Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running					Gasoline domestic supply	Total fuel volume
144.2921	103.4627	88.9321		5.3992	2.2658	2.6484	11683.13	5330.174	1357.929	1352.343	4353.463	887.2175	11951.72	282.3473	0.952	117409.6	145543.7	12234.07	133309.6	141605.6	2.6162
148.8587	149.5916	86.9268		7.3337	2.8393	3.4942	11485.72	4911.024	1316.298	1955.266	4068.132	833	11180.52	284.3196	0.9785	113437.1	140802	11464.84	129337.1	137111.4	3.4409
152.179	97.4353	88.0261		5.156	2.2033	2.5563	12258.77	5382.87	1363.163	2203.14	3998.434	909.1654	10984.4	282.2403	0.9676	118541.2	145707.9	11266.64	134441.2	142081.1	2.529
137.5671	149.3227	86.7118		7.9048	2.9442	3.5539	10785.34	4787.296	1304.009	2041.867	3417.166	833	9332.416	410.108	0.856	114220.7	139863.2	9742.524	130120.7	136727.1	3.5114
150.5352	141.873	85.8684		4.3382	2.7493	3.3614	11857.12	5560.06	1380.762	1405.134	4126.201	982.9648	11347.06	284.0007	1	114031.5	141562.5	11631.06	129931.5	137818.5	3.3111
158.9467	104.9618	86.6165		4.6201	2.2856	2.6776	12915.87	5498.987	1374.696	2336.73	4345.928	957.5281	11951.31	282.4119	1	117255.1	145388.8	12233.72	133155.1	141450.8	2.6446
153.4568	154.11	88.0572		6.4296	2.8735	3.5446	11951.57	5106.923	1335.755	2003.625	4270.268	833	11743.24	284.3546	1	112802.7	140730.3	12027.6	128702.7	136858.6	3.4873
156.6803	125.1926	88.558		5.6572	2.5501	3.0678	12398.94	5274.277	1352.377	2315.638	4190.713	863.9364	11524.46	283.3243	1	115470.5	143178.3	11807.79	131370.5	139377.4	3.0251
158.1877	101.9763	86.5366		5.4173	2.2715	2.6568	11990.47	5326.248	1357.539	2133.943	3885.16	885.5821	10666.74	282.499	0.9534	118218.2	145067.4	10949.23	134118.2	141542.8	2.6277
140.4679	134.0026	87.3036		7.1863	2.7283	3.2896	11148.4	4942.962	1319.47	2143.617	3507.349	833	9542.722	337.8881	0.7986	115549.5	141330.1	9880.61	131449.5	138149.6	3.2504
142.3104	105.201	86.2326		6.1203	2.4409	2.7625	10974.59	5173.939	1342.412	1917.976	3305.263	833	9023.896	473.2892	0.8509	118583.9	143981	9497.185	134483.9	140923.9	2.7413
153.3451	122.6565	87.7519		5.2574	2.5434	3.0577	12323.56	5360.895	1360.981	2495.436	3804.234	900.0128	10461.64	283.4286	1	116224	142869.1	10745.07	132124	139410.3	3.019
152.8499	115.128	87.1621		6.0505	2.4376	2.9018	12266.14	5189.057	1343.913	2492.782	4005.384	833	10975.33	283.0172	0.9136	116713	143871.4	11258.35	132613	140247.3	2.8655
156.9824	191.7478	85.4907		4.1791	3.2955	4.1669	12448.58	5595.543	1384.186	2385.231	3685.311	997.3219	10134.61	285.9946	1	110550.3	136870.9	10420.6	126450.3	133216.5	4.1005
158.9017	131.2765	87.9316		4.2384	2.6089	3.1545	12642.87	5581.689	1382.911	1881.867	4402.433	991.9736	12106.7	283.4456	1	114628	142918.2	12390.14	130528	138929.8	3.1072
154.9415	132.071	87.6666		4.874	2.6343	3.1919	12365.68	5443.959	1369.231	2058.668	4157.217	934.6088	11432.35	283.6118	1	114873.6	142489.6	11715.96	130773.6	138718.2	3.146
156.841	132.8414	87.8462		4.0807	2.6508	3.2162	12589.47	5615.841	1386.303	2134.966	4044.162	1006.198	11421.45	283.7049	1	114949.2	142254.4	11405.15	130849.2	135853.1	3.1708
155.8149	130.6895	88.6369		4.882	2.6132	3.1607	12633.32	5442.232	1369.059	2254.308	4231.828	933.8896	11637.53	283.5171	1	114903.8	142724.8	11921.05	130803.8	138887.4	3.115
155.1387	156.5091	87.7875		5.4619	2.8886	3.567	12220.67	5316.592	1356.58	1852.851	4411.084	881.5604	12130.48	284.3504	1	112431.4	140746.3	12414.83	128331.4	136749.9	3.5072
141.828	138.3336	86.919		7.0893	2.7467	3.3575	11066.89	4963.975	1321.557	1970.64	3575.714	833	9814.08	284.1926	0.9465	115056.5	141054.7	10098.27	130956.5	137804.1	3.3138
140.7453	184.4836	86.6666		8.0769	3.2013	4.028	11139.36	4749.997	1300.304	1857.354	3996.707	833	10990.94	285.5438	1	110733.4	137909.8	11276.49	126633.4	134279.9	3.9604
153.6821	133.5396	87.1085		5.8712	2.6589	3.2281	12246.94	5227.9	1347.771	2379.088	4045.557	844.6202	11125.29	283.7311	1	114883.4	142192.4	11409.02	130783.4	138519.8	3.1824
151.6538	117.9778	87.5901		5.7222	2.463	2.9392	12084.87	5260.192	1350.978	2047.354	4166.272	858.0698	11457.25	283.046	1	116196	143836.3	11740.3	132096	140057.1	2.9004
143.0647	141.5599	87.5671		5.2296	2.7999	3.4177	11628.82	5366.223	1361.579	2090.194	3505.603	902.5235	9640.41	308.3442	1	114829.6	140678.3	9948.754	130729.6	137475.8	3.374
151.6318	148.9784	87.3019		4.4534	2.8227	3.4697	12129.07	5535.106	1378.284	1635.746	4205.363	972.5715	11564.75	284.2127	1	113315.8	141064.8	11848.97	129215.8	137250.6	3.4153
151.1237	131.5858	87.365		5.4578	2.6147	3.163	12047.24	5317.473	1356.668	1719.656	4369.517	881.9276	12016.17	283.4755	1	114642.6	142842.2	12299.65	130542.6	138883	3.1158
147.1592	181.7974	87.9936		6.182	3.1293	3.922	11799.47	5160.575	1341.084	1491.081	4571.727	833	12572.26	285.0639	1	110270.6	139027.9	12857.32	126170.6	134889.1	3.8486
152.9734	137.2825	87.6717		6.336	2.6817	3.2618	12428.23	5127.209	1337.77	2374.867	4353.384	833	11971.81	283.6989	1	114149.2	142304.7	12255.51	130049.2	138359.7	3.2118
155.0381	103.9174	87.8899		4.5267	2.2748	2.6617	12502.51	5519.205	1376.704	1946.402	4292.245	965.949	11803.67	282.392	1	117437.6	145423.7	12086.07	133337.6	141533.2	2.6295
141.2909	126.6327	86.2296		6.1166	2.607	3.1515	11184.53	5174.739	1342.491	1861.704	3570.598	833	9819.146	283.72	1	116148.7	142151.6	110102.87	132048.7	138899.5	3.1128
153.8382	89.7576	86.6912		4.8045	2.0892	2.388	12203.45	5459.014	1370.726	1896.456	4134.376	940.8795	11340.16	281.8295	0.9331	119197.3	146719.3	11621.98	135097.3	142978.2	2.3644
146.4921	121.1073	87.9731		5.7635	2.5071	3.0043	11590.55	5251.251	1350.09	1652.023	4080.837	854.3458	11222.3	283.2184	1	116006.4	143411.9	11505.52	131906.4	139708.3	2.9644
143.7756	82.2446	87.7434		5.6589	2.3036	3.2036	11116.45	5273.9	1352.34	2377.786	2846.64	863.7792	7675.075	772.2178	0.6778	121687.6	146034.9	8447.293	137587.6	143315.7	2.3024
153.7694	123.4069	86.6609		5.772	2.5421	3.0559	12125.9	5249.398	1349.906	2298.37	3972.656	853.5742	10924.81	283.3693	1	115928.6	143036.8	11208.18	131828.6	139428.9	3.0156
146.7772	118.2141	87.5873		6.2953	2.4976	2.9902	11538.51	5136.012	1338.645	2164.391	3664.465	833	10023.02	283.3267	0.8812	116872.2	143078.6	10306.34	132772.2	139761	2.9547
149.2852	99.5366	87.077		5.289	2.232	2.5985	11704.02	5354.046	1360.3	1685.318	4005.2	897.1603	10992.78	282.3343	0.9463	118311.4	145486.5	11275.12	134211.4	141857	2.5701
145.383	80.2104	88.4522		5.0663	2.1354	2.2433	11850.71	5402.301	1365.093	2631.407	3133.007	917.2582	8522.564	562.9321	0.7958	121613.6	146599.1	9085.96	137513.6	143674.5	2.2366
152.1082	152.7	86.7525		7.2898	2.8573	3.5208	11930.8	4920.553	1317.245	2172.962	4285.04	833	11783.11	284.2964	0.9964	112902.7	140870.1	12066.41	128802.7	139895.6	3.464
147.2674	136.8178	86.1531		6.4366	2.7183	3.3157	11839.82	5105.393	1335.603	2435.321	3728.503	833	10253.39	284.0399	1	114991	141428.4	10537.43	130891	138036.4	3.2712
146.1409	160.4105	87.9153		5.9303	2.9644	3.6786	11830.71	5215.106	1346.5	2085.844	3942.325	839.2915	10841.39	284.7807	1	112681.4	139707.6	11126.18	128581.4	136126	3.6217
154.479	132.8919	87.4505		6.7616	2.6449	3.2075	12053.53	5304.989	1328.611	2300.666	4154.266	833	11391.84	283.6517	0.9281	114817.4	142392.9	11675.49	130717.4	138634.6	3.1614
146.0266	109.4933	86.8957		5.8335	2.3888	2.8297	11517.09	5236.074	1348.583	2096.934	3585.472	848.0248	9842.024	282.9803	0.9491	117845.7	143870.7	10125	133745.7	140611.4	2.7986
141.7798	147.5051	88.3752		6.6363	2.8039	3.4421	11323.84	5062.126	1331.306	1453.626	4241.777	833	11664.89	284.1379	1	113396.5	141245.5	11949.03	129296.5	137399.1	3.3881
146.5554	120.9412	86.5696		6.2002	2.5031	2.9983	11334.73	5156.617	1340.691	1485.246	4117.175	833	11310.11	283.1948	0.9666	115979.9	143473.2	11593.3	131879.9	139741.3	2.9583
145.1526	78.3692	87.5838		5.0281	2.1192	2.2035	11226.05	5410.583	1365.916	2024.307	3102.54	920.708	8416.256	583.7035	0.7568	121879.9	146779.9	8999.96	137779.9	143882.8	2.1984
154.4658	102.2389	87.2518		5.3671	2.2659	2.6485	11857.28	5337.129	1358.62	1818.829	4050.587	890.1144	11129.07	282.4325	0.9708	117955.3					

TABLE 2

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
136.8815	84.5661	87.3389		5.7575	2.3263	2.3556	10731.65	5252.54	1350.219	2057.285	2814.721	854.883	7649.679	786.8765	0.7826	121414.4	145750.9	8436.555	137314.4	143035.2	2.3539
139.5608	99.3348	87.7475		5.8405	2.3497	2.6431	11056.15	5234.56	1348.433	1884.171	3339.592	847.3941	9076.964	452.9288	0.7839	119202.2	144632.1	9529.892	135102.2	141564.5	2.6238
151.1744	97.5501	86.57		5.3016	2.2213	2.5827	12032.22	5351.311	1360.029	2322.234	3700.63	896.021	10132.4	282.3855	0.8994	118967.2	145282	10414.79	134867.2	141929.5	2.5568
141.1093	133.3993	86.6358		6.9154	2.6713	3.2463	10921.58	5001.663	1325.301	1504.522	3855.095	833	10541.3	283.8458	0.8762	115170.3	141895.5	10825.14	131070.3	138410.9	3.2024
159.2218	86.2498	86.2016		4.9567	2.1099	2.3612	12334.54	5426.047	1367.452	2760.754	3451.136	927.1486	9408.7	357.578	0.8286	120564.5	146230.8	9766.278	136464.5	143087	2.3444
141.7651	102.8283	86.0421		5.9363	2.3739	2.7108	10735.64	5213.798	1346.37	1529.844	3404.882	838.7466	9244.507	410.8216	0.7689	118765.9	144321.2	9655.328	134665.9	141213.2	2.6882
146.6317	123.1617	85.4913		6.612	2.5861	3.0942	11267.42	5067.394	1331.829	2122.887	3510.305	833	9599.353	318.4584	0.8777	116568.2	142386	9917.811	132468.2	139193.5	3.0588
144.2639	127.4689	86.9608		6.5611	2.5796	3.1113	11508.43	5078.425	1332.925	1687.297	4174.784	833	11434.04	283.432	0.9047	115299.6	142917.1	11717.47	131199.6	139145.2	3.0677
143.0113	164.7006	86.9274		6.7122	2.9787	3.6998	11347.88	5045.696	1329.674	1393.47	4344.044	833	11946.12	284.6691	1	111850.2	139981	12230.79	127750.2	136043.9	3.6368
151.2442	179.4702	88.3635		4.345	3.1378	3.9345	12273.57	5558.577	1380.615	1763.358	4186.672	982.3471	11513.35	285.2536	1	110890.5	138589.1	11798.6	126790.5	134791.1	3.8666
156.0224	128.4332	87.4649		5.0726	2.5713	3.099	12404.63	5400.926	1364.957	1853.47	4466.591	916.6858	12283.13	283.3021	1	114805.4	143271.8	12566.43	130705.4	139226.7	3.0527
141.779	134.3388	87.1206		6.9878	2.6911	3.2756	11168	4985.978	1323.743	1901.684	3721.593	833	10175.1	283.9588	0.8743	115255.1	141614.2	10459.06	131155.1	138247.4	3.2324
154.3764	177.241	87.1625		5.5625	3.0966	3.8738	12246.21	5294.788	1354.415	1889.537	4432.991	872.4793	12190.73	285.0163	1	110772.2	139147.9	12475.74	126672.2	135132	3.8041
152.4247	95.268	86.3997		5.183	2.1864	2.5312	12097.67	5377.022	1362.582	2287.893	3761.446	906.7297	10295.67	282.252	0.8937	119132.8	145610.7	10577.92	135032.8	142205.7	2.5061
136.9477	149.1162	86.6357		7.7335	2.8717	3.5419	10540.97	4824.406	1307.695	1589.551	3584.314	833	9722.222	284.6276	0.7555	114136.4	140043.2	10006.85	130036.4	136822	3.494
138.8092	91.8458	86.1832		5.9748	2.3747	2.5044	10605.14	5205.451	1345.541	1803.297	3013.576	835.2701	8142.726	684.8449	0.7049	120372	145099.6	8827.571	136272	142258	2.4965
149.3771	139.4657	87.0052		5.736	2.6953	3.282	11934.03	5257.199	1350.681	1549.947	4517.379	856.8233	12422.79	283.6857	1	113746.4	142352.9	12706.48	129646.4	138262.7	3.2296
151.1272	97.3345	88.7019		5.1483	2.1838	2.5275	12179.96	5384.539	1363.329	1769.277	4350.957	909.8606	11927.48	282.0829	0.9219	118066.1	146175.6	12209.57	133966.1	142245.4	2.4988
142.1335	170.2984	88.2587		7.6926	3.0612	3.8215	11086.86	4833.275	1308.576	1702.469	4007.539	833	11020.73	285.0756	1	111807.8	139013.6	11305.81	127707.8	135374.3	3.7596
148.9721	128.8555	88.2495		5.8677	2.6274	3.1815	11989.61	5228.669	1347.848	2491.654	3674.502	844.9408	10104.88	283.7534	1	115801.4	142089.6	10388.64	131701	138745.5	3.141
140.6803	184.0973	86.8587		8.4912	3.1777	3.9933	10780.09	4660.241	1291.39	1349.172	4244.286	833	11665.96	285.3608	0.9817	110480.4	138331.7	11951.32	126380.4	134486.6	3.9229
141.328	111.2525	87.2561		6.2071	2.4547	2.8727	11182.19	5155.138	1340.544	1973.557	3477.949	833	9463.077	354.8124	0.7991	117806.3	143524.2	9817.889	133706.3	140363.8	2.8441
146.9493	115.4992	87.6797		4.3424	2.449	2.9185	11556.55	5559.145	1380.671	1352.177	3879.971	982.5839	10669.92	283.0895	1	116826.1	143679.1	10953.01	132726.1	140153.3	2.8827
154.3502	136.031	87.644		6.5631	2.6716	3.2469	11700.64	5077.998	1332.882	1765.31	4289.452	833	11795.98	283.6883	0.9999	114343.3	142323	12079.67	130243.3	138434.5	3.1981
145.9348	107.9854	87.6493		6.0788	2.4177	2.8098	11495.59	5182.932	1343.305	2270.738	3463.62	833	9419.947	365.5715	0.7928	118160.2	143845.7	9785.519	134060.2	140695.8	2.7832
143.8566	132.7083	87.006		6.8831	2.691	3.2643	11298.84	5008.66	1325.996	2207.402	3521.788	833	9668.799	298.5786	0.9527	115635.1	141502.5	9967.378	131535.1	138294	3.2239
148.394	87.1492	87.2397		5.4398	2.2236	2.3936	11764.69	5321.381	1357.056	2579.661	3221.036	883.5551	8687.81	536.5474	0.6825	120722.6	145847	9224.357	136622.6	142877.6	2.3828
141.832	91.5886	85.8537		5.6461	2.2874	2.4883	11132.38	5276.686	1352.617	2015.421	3220.722	864.9397	8720.474	535.9118	0.7317	120195.8	145352.2	9256.385	136095.8	142372.5	2.4755
140.1041	91.7482	86.5694		5.8361	2.3317	2.497	10811.02	5235.514	1348.527	1848.97	3128.215	847.7917	8429.953	610.6896	0.6715	120280.8	145221.5	9040.642	136180.8	142311.3	2.4867
157.7586	141.0414	88.0572		4.2324	2.7373	3.3437	12643.46	5582.983	1383.039	2118.762	4164.168	992.5123	11451.47	283.9476	1	114056.7	141692.2	11735.41	129956.7	137914.5	2.8937
155.2045	115.4917	86.9134		5.3498	2.4394	2.9044	12161.3	5340.874	1358.992	2128.779	4038.985	891.6742	11107.21	283.0081	1	116612.1	143902.3	11390.22	132512.1	140235.8	2.8676
152.6771	157.4264	86.7201		5.8719	2.9197	3.6127	12008.7	5227.756	1347.757	2066.078	4120.55	844.5604	11331.51	284.5635	1	112710.8	140226.9	11616.08	128610.8	136487.7	3.5553
140.0349	130.1629	88.164		6.6781	2.639	3.1987	11255.8	5053.085	1330.408	1895.405	3741.901	833	10278.28	283.7771	0.9644	115956.5	142057.7	10562.05	131495.6	138657.7	3.1571
156.244	131.4676	86.1922		6.6671	2.6387	3.1983	11882.7	5055.462	1330.644	2276.402	3985.191	833	10948.43	283.6865	0.9686	115157.4	142289.6	11232.11	131057.4	138673.9	3.1542
143.4546	61.6002	88.0062		4.7229	2.0138	1.8314	11305.43	5476.706	1372.483	2565.256	2540.736	948.2479	6786.143	869.4132	0.5681	124740.3	148295.9	7655.556	140640.3	145831.6	1.8408
153.517	106.1453	87.176		5.5089	2.308	2.7106	12057.53	5306.399	1355.568	1888.52	4227.732	877.3152	11616.67	282.5201	0.9728	117302.2	145101.4	11899.19	133202.2	141271	2.6776
155.3479	110.7302	87.7464		4.9547	2.3585	2.7851	12578.65	5426.492	1367.496	2073.051	4382.274	927.3341	12051.26	282.6383	1	116619.6	144853.5	12333.9	132519.6	140883.2	2.7488
151.5808	163.3828	87.2649		5.7154	3.0049	3.7384	11809.1	5261.663	1351.125	2119.718	3815.914	858.6827	10493.76	284.966	1	112590.5	139269.2	10778.73	128490.5	135799.6	3.6816
151.6879	166.576	87.6551		6.478	3.0072	3.7419	12167.75	5096.425	1334.713	2281.959	4219.65	833	11604.04	284.812	1	111850	139638.9	11888.85	127750	135811.8	3.6793
152.6613	123.0036	86.5281		5.8478	2.5311	3.0396	12139.44	5232.983	1348.276	2239.382	4070.569	846.7374	11192.66	283.301	1	115838.3	143214.3	11475.97	131738.3	139520.2	2.9989
151.0897	108.0702	87.9149		5.029	2.3866	2.7558	12033.04	5410.379	1365.896	1804.924	4129.216	920.6229	11355.35	282.6484	1	117236.2	144774.2	11638	133136.2	141027.9	2.7222
144.1722	111.8263	86.1411		6.0101	2.419	2.8743	11471.14	5197.804	1344.782	2090.556	3603.001	833	9859.203	283.0805	0.8888	117596.9	143639.2	10142.28	133496.9	140374.4	2.8421
155.6635	109.9333	88.2504		5.2871	2.3514	2.7746	12439.76	5354.464	1360.342	2097.636	4227.984	897.3344	11901.96	282.6314	1	116774	144858.6	12184.59	132674	140936.3	2.739
154.697	164.5585	87.4793		5.2949	2.9971	3.727	12150.73	5352.778	1360.174	2058.615	4080.531	896.6319	11221.46	284.8345	1	112177.7	139584	11506.3	128077.7	135880.1	3.6668
152.2467	164.997	87.4738		3.473	3.0063	3.7405	12423.68	5747.512	1399.381	1794.569	4019.177	1061.039	11052.74	284.8892	1	112216	139453.6	11337.63	128116	135804	3.6808
145.4188	129.1412	87.5442		6.6461	2.6017	3.1437	11382.67	5060.000	1331.095	1611.912	4144.654	833	11347.39	283.5149	0.8982	115184.7	142715.6	11630.91			

TABLE 2

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
142.4968	74.033	85.9516		5.4141	2.2083	2.1252	10941.49	5326.936	1357.608	2303.076	2666.001	885.8689	7150.037	860.968	0.6145	122924.5	146835.5	8011.005	138824.5	144256.8	2.1297
143.3772	96.4933	86.7431		5.7285	2.3145	2.5853	11265.88	5258.826	1350.843	2065.927	3330.788	857.5009	9037.036	460.5319	0.7593	119530.3	144927.9	9497.568	135430.3	141870.6	2.5676
146.0263	177.4376	87.4625		8.2959	3.0954	3.872	11420.25	4702.555	1295.592	1707.706	4479.398	833	12297.77	284.9963	0.9525	110711.9	139194.6	12582.76	126611.9	135144.3	3.8018
152.2929	115.8973	87.7289		5.9526	2.4324	2.8941	12309.87	5210.265	1346.02	2268.529	4245.784	837.2754	11663.81	282.9222	0.9674	116298.7	144145.4	11946.73	132198.7	140299.7	2.8558
149.6458	119.303	87.2989		6.3191	2.5087	3.0065	11756.99	5130.859	1338.133	2346.939	3706.064	833	10145.79	283.3495	0.8967	116704.7	143033.9	10429.14	132604.7	139676.7	2.9702
142.9188	109.371	87.4053		6.1508	2.4407	2.8375	11131.77	5167.336	1341.756	1937.681	3449.997	833	9392.743	373.8226	0.8081	118023.9	143690.5	9766.565	133923.9	140546.7	2.8105
156.188	154.2529	87.0456		4.385	2.8986	3.5816	12364.07	5549.916	1379.755	2108.36	3945.303	978.7401	10849.6	284.5613	1	113190	140224.2	11134.16	129090	136640.1	3.5274
152.1485	106.4147	87.2619		5.6271	2.3222	2.7315	12136.89	5280.805	1353.026	2188.024	4046.378	866.6551	11096.43	282.622	0.9289	117536.2	144815.3	11379.05	133436.2	141152.4	2.6994
139.7669	92.8639	85.7897		6.0486	2.3916	2.5261	10682.00	5189.462	1343.953	1886.67	3017.006	833	8136.156	689.1665	0.6804	120256.8	144982.1	8825.322	136156.8	142141.2	2.5179
147.6382	87.7863	86.2447		4.8903	2.1078	2.3912	11466.84	5440.437	1368.881	1822.467	3499.915	933.142	9589.279	313.7666	0.9117	120321.3	146124.4	9903.045	136221.3	142936.6	2.372
152.2297	166.0608	86.8427		5.7909	3.0295	3.7746	11798.93	5245.308	1349.5	2092.58	3857.676	851.8709	10608.61	285.0312	1	112323.5	139117.1	10893.64	128223.5	135610.5	3.7163
138.3442	112.9662	87.5455		6.1284	2.4347	2.8974	10962.3	5172.174	1342.236	1606.407	3606.483	833	9819.8	283.1379	0.8096	117499.9	143502.9	10102.94	133399.9	140250.7	2.8648
153.7916	109.6923	87.6229		5.8665	2.3556	2.7808	12182.04	5289.597	1353.899	2065.034	4201.191	870.3172	11552.31	282.683	0.9955	116972.7	144707.7	11834.99	132872.7	140898	2.7461
140.7321	111.7565	87.5469		6.1393	2.4514	2.8812	10953.36	5189.828	1342.003	222.086	3484.444	833	9525.929	337.1796	0.8729	117734.5	143497.6	9863.109	133634.5	140322.7	2.8516
147.2651	113.4872	87.1733		6.0195	2.4219	2.8786	11901.31	5195.783	1344.581	1204.704	3921.24	833	10730.64	282.9927	0.8898	116997.6	143911.3	11013.63	132897.6	140366	2.8437
154.6049	129.8954	86.6759		5.2216	2.6203	3.1712	12415.6	5368.661	1361.752	2403.118	3976.825	903.2472	10936.27	283.6271	1	115309.3	142429.2	11219.9	131209.3	138817.5	3.1278
144.5929	135.0524	87.8923		6.4787	2.6623	3.2332	11414.55	5096.26	1334.698	1489.281	4259.827	833	11713.04	283.6685	1	114470.2	142366.9	11996.71	130370.2	138505.2	3.1851
153.3127	130.4889	87.4495		6.4311	2.5969	3.1368	12042.29	5106.593	1335.723	1918.939	4446.034	833	12224.78	283.3921	0.993	114644.2	143052.3	12508.17	130544.2	139026	3.0896
155.3077	138.8724	86.5045		3.9842	2.7222	3.3215	11996.06	5636.752	1388.38	1531.333	4022.686	1014.907	11062.4	283.9484	1	114429.6	141675.9	11346.35	130329.6	138023.5	3.2735
154.1354	136.8765	90.4219		5.6318	2.6784	3.257	12400.36	5279.77	1352.923	2166.818	4332.619	866.2244	11914.71	283.6955	1	114212.1	142310.5	12198.4	130112.1	138383.8	3.2074
133.9354	168.5208	87.9507		8.3367	3.0664	3.8289	10558.06	4693.709	1294.714	1603.465	3731.178	833	10191.24	285.2163	0.858	112306.4	138682.9	10476.46	128206.4	135310.5	3.7713
152.6972	160.7551	88.2279		5.1115	2.9489	3.6558	12317.48	5322.498	1364.12	2047.417	4198.274	913.1756	11545.26	284.6293	1	112343.4	140073.3	11829.89	128243.4	136265.3	3.5961
158.7702	89.1551	86.7822		4.9261	2.1014	2.4059	12384.94	5432.683	1368.111	2515.608	3736.628	929.9125	10187.35	281.9774	0.8291	119871.5	146240.8	10469.33	135771.5	142870.7	2.3841
143.3906	141.2749	86.8747		6.9835	2.7506	3.3634	11140.54	4986.898	1323.834	1585.544	4009.264	833	11022.55	284.0475	0.9889	114233.8	141440.3	11306.6	130133.8	137800.8	3.3144
149.8737	81.895	85.4262		5.4173	2.2208	2.6284	11554.08	5326.252	1357.54	2587.172	2995.531	885.5389	8095.264	669.3749	0.7069	12570.9	146235.6	8764.639	137470.9	143414.2	2.2843
159.2917	86.6433	89.7314		3.231	2.0533	2.3351	13025.73	5799.95	1404.589	2392.758	3943.56	1082.879	10844.79	281.7564	1	119809.3	146835.9	11126.55	135709.3	143254.2	2.3137
146.4447	82.6686	85.6822		4.7443	2.0553	2.2826	11580.32	5472.062	1372.022	1942.089	3445.832	946.314	9411.919	354.757	0.8581	120983.2	146649.9	9766.676	136883.2	143506	2.2675
140.7742	102.8854	87.8962		5.4869	2.2902	2.6844	11281.22	5311.174	1356.042	1562.946	3768.75	879.3038	10345.79	282.5948	0.9505	118284.8	144813.1	10628.309	134184.8	141391.9	2.6554
144.3383	167.0243	86.1204		6.6626	2.9887	3.7147	11213.4	5056.347	1330.741	1069.681	4521.545	833	12434.25	284.6313	1	111453.9	140072.8	12718.88	127353.9	135978.6	3.6487
137.378	89.1991	86.7285		5.8121	2.3251	2.4468	10662.87	5240.714	1349.044	1779.575	3041.581	849.9572	8196.773	664.2299	0.6719	120660.9	145421.9	8861.002	136560.9	142569.5	2.4393
153.4522	86.9882	87.1972		4.9678	2.1035	2.3749	12100.82	5423.638	1367.212	2468.781	3513.041	926.1451	9535.265	326.8439	0.7647	120432.9	146195	9862.108	136332.9	143020.4	2.3566
151.8693	120.7309	88.8066		5.258	2.486	2.9732	11933.38	5360.759	1360.967	1562.729	4346.965	899.9559	11954.16	283.0642	1	115687.8	143825	12237.22	131587.8	139885.9	2.9318
154.4303	103.0721	86.8962		5.6304	2.286	2.689	12087.34	5280.071	1352.953	2394.072	3791.892	866.3497	10316.3	282.6083	0.7978	118279.9	144778.8	10598.9	134179.9	141367	2.66
138.9254	159.5882	87.9292		7.9532	2.9683	3.6843	10645.96	4776.801	1302.967	1539.741	3791.452	833	10374.75	284.8607	0.8886	112954.7	139514.3	10659.61	128854.7	136083	3.6296
159.2067	106.7149	88.3179		4.4069	2.3178	2.7251	12885.05	5545.172	1379.284	2399.037	4182.792	976.7641	11502.68	282.5644	1	117301.1	144986.3	11785.24	133201.1	141192.6	2.692
158.9329	114.9407	86.5793		5.1706	2.4356	2.8989	12314.79	5379.704	1362.849	2277.978	3984.412	907.8467	10957.14	283.0127	1	116740.6	143880.7	11240.15	132640.6	140262.5	2.8627
156.5702	88.0808	88.2786		3.7054	2.0814	2.3764	12663.39	5653.826	1390.075	2399.626	3795.848	1022.019	10438.58	281.887	1	119860.9	146481.4	10720.47	135760.9	143030.4	2.3548
145.1365	133.8138	86.9336		6.9739	2.6628	3.2339	11293.19	5032.316	1328.345	1656.884	4040.644	833	11095.99	283.7478	0.9582	114872	142151.7	11379.74	130772	138488.6	3.1882
153.4972	159.7785	87.6034		6.5083	2.9179	3.6101	12326.07	5089.874	1334.062	2188.522	4478.614	833	12316.19	284.4191	1	112082.6	140583.2	12600.61	127982.6	136527.1	3.5481
139.33	125.644	87.6171		6.5173	2.5793	3.1107	11093.87	5087.908	1333.867	1611.415	3825.683	833	10495.84	283.5445	0.9378	115920.3	142599.7	10779.39	131820.3	139129.8	3.0705
149.5602	126.0744	87.9012		6.1871	2.5598	3.082	11907.57	5159.461	1340.974	1965.294	4206.839	833	11568.8	283.3505	0.9999	115366.1	143118.3	11852.15	131266.1	139303.1	3.0387
156.655	89.8448	87.3282		4.8056	2.0898	2.3888	12587.2	5458.788	1370.704	2266.063	4148.857	940.7852	11380.28	281.8274	0.9339	119166.5	146728.6	11662.11	135065.5	142974.6	2.365
140.369	150.6689	86.5408		7.4409	2.8453	3.5031	11844.43	4887.8	1313.991	1592.922	4154.721	833	11401.34	284.3093	0.9429	113245.7	140831.4	11685.65	129145.7	137069.8	3.4485
131.7555	135.7043	87.6432		7.8077	2.8967	3.3373	10531.97	4808.339	1306.099	1980.199	3202.334	833	8698.897	603.41	0.7758	115626.6	140828.9	9302.307	131526.6	137834.5	3.3082
156.3703	132.1906	87.8697		6.3291	2.5902	3.1271	12677.85	5128.701	1337.918	2127.228	4849.004	833	13334.64	283.2354	0.9992	113965	143482.8	13617.87	129865	139099.3	3.0761
154.1902	93.5686	89.2688		4.8933	2.1355	2.4562	12711.4	5439.784	1368.816	2295.798	4272.132	932.8701	11742.01	281.9431	0.98						

TABLE 2

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
152.2217	112.2063	87.5589		5.8165	2.3994	2.8454	12152	5239.755	1348.949	2303.386	4008.349	849.5581	11015.46	282.8861	0.9766	116985.7	144184.1	11298.35	132885.7	140547.1	2.8104
159.0978	104.5798	87.4717		5.4622	2.2813	2.6714	12566.38	5316.519	1356.573	2269.509	4340.25	881.53	11912.16	282.4021	0.9459	117314.2	145408.8	12194.56	133214.2	141483.4	2.6387
149.9372	96.6361	87.6257		5.4627	2.2429	2.5789	11845.05	5316.405	1356.562	2377.223	3511.381	881.4826	9537.808	329.3742	0.7749	119342.4	145109.6	9867.182	135242.4	141933.4	2.5561
156.7786	126.0482	86.5276		5.9777	2.5615	3.0746	12140.47	5204.821	1345.479	2141.997	4174.16	835.0081	11478.94	283.3671	1	115411.6	143073.9	11762.31	131311.6	139287.6	3.0416
156.7224	136.2659	88.5879		5.562	2.6689	3.243	12556.74	5294.898	1354.426	2263.507	4369.38	872.5249	12015.81	283.6519	1	114219.6	142419	12299.46	130119.6	138459.8	3.1935
148.5603	135.2429	87.5184		6.3252	2.653	3.2195	11683.04	5129.548	1338.003	1548.496	4431.994	833	12187.99	283.5785	1	114230.7	142602.3	12471.56	130130.7	138587.7	3.17
152.3349	121.0134	87.768		5.6565	2.4811	2.966	12145.88	5274.426	1352.392	1769.882	4483.177	863.9985	12328.74	283.0048	1	115479.1	143990.8	12611.74	131379.1	139931.1	2.9235
151.2753	101.1412	87.601		4.7699	2.2664	2.6492	12062.26	5466.527	1371.472	2112.715	3765.534	944.0083	10355.22	282.514	1	118465.6	145003.4	10637.73	134365.6	141579.1	2.6211
152.068	116.7701	86.1078		6.0546	2.459	2.9334	11776.2	5188.168	1343.825	2023.621	3985.59	833	10946.99	283.0914	0.9629	116564.1	143694.2	11230.08	132464.1	140079.2	2.8963
147.3208	140.1228	87.1293		6.8814	2.7374	3.3439	11461.93	5009.026	1326.032	1881.909	4009.962	833	11026.68	284.0033	0.9964	114334.3	141545	11310.69	130234.3	137904.1	3.2954
156.3347	107.1568	88.062		4.2728	2.3292	2.7418	12661.41	5574.224	1382.169	2229.368	4084.783	988.8641	11233.15	282.6304	1	117391.1	144806.9	11515.78	133291.1	141099.9	2.709
151.5408	111.5215	86.8222		5.9151	2.3986	2.8442	11922.04	5218.405	1346.828	2231.999	3882.138	840.6658	10636.54	282.9254	0.9117	117242.8	144062.3	10919.47	133142.8	140547.3	2.8104
148.9259	106.1518	87.7302		5.4924	2.3015	2.7011	12070.23	5309.975	1355.923	1778.296	4345.237	878.8045	11938.23	282.465	0.97	117139.6	145260.3	12220.7	133039.6	141326.4	2.6674
155.6404	119.921	87.5256		5.8749	2.4636	2.9402	12573.98	5227.096	1347.691	2202.526	4550.383	844.2856	12513.53	282.927	0.9998	115493.5	144189.9	12796.46	131393.5	140078.9	2.8979
151.8232	109.9082	86.8556		4.7265	2.3699	2.802	11808.47	5475.926	1372.406	1609.696	4000.516	947.923	11001.42	282.7902	1	117225.5	144409.7	11284.21	133125.5	140777.3	2.7682
151.4791	117.2738	86.9839		6.055	2.4505	2.9208	12006.01	5188.081	1343.816	2003.272	4235.841	833	11625.24	282.9859	0.9453	116182.7	143990.9	11908.23	132082.7	140157.6	2.8819
153.058	89.2063	86.2649		5.249	2.1781	2.428	11882.47	5362.713	1361.161	2446.074	3409.74	900.77	9236.849	402.2241	0.7383	120284.9	145824	9639.074	136184.9	142721.2	2.4115
145.8312	123.6088	85.6879		6.5366	2.5598	3.0818	11430	5083.746	1333.453	2021.907	3755.893	833	10258.9	283.5076	0.8582	116229.5	142671.9	10542.41	132129.5	139278.3	3.0433
153.2972	167.3322	84.8975		5.6822	3.0494	3.8039	11667.16	5268.864	1351.84	2014.409	3768.366	861.682	10363.01	285.1339	1	112327.6	138875.8	10648.14	128227.6	135448.2	3.7461
145.4974	131.4273	87.0233		6.6209	2.6308	3.1866	11431.79	5065.472	1331.638	1701.013	4098.669	833	11263.24	283.6211	0.9756	115012.6	142459.5	11546.86	130912.6	138742.5	3.1416
138.7347	136.7646	87.8434		7.3684	2.7956	3.3419	11229.36	4903.514	1315.552	2354.513	3420.777	833	9346.939	400.0784	0.8641	115347.4	140994.5	9747.017	131247.4	137856.9	3.3041
155.7043	99.0973	87.9821		4.3709	2.2267	2.5907	12322.8	5552.983	1380.059	2024.149	3983.593	980.0172	10954.88	282.3207	1	118377.8	145515	11237.2	134277.8	141897.7	2.5626
149.6451	93.7448	88.7002		5.0047	2.1424	2.4664	12246.26	5415.645	1366.419	1943.282	4196.1	922.8162	11501.67	281.9889	0.9198	118673.6	146357.3	11783.66	134573.6	142564.1	2.4403
149.424	209.5631	88.1026		5.3268	3.4388	4.3783	12100.54	5345.859	1359.487	2206.196	3893.247	893.7503	10706.43	286.3786	1	109066.2	135955.5	10992.81	124962.2	132416.9	4.3023
154.8087	112.3383	87.5566		5.4227	2.4186	2.8737	12224.35	5325.072	1357.423	2538.829	3715.932	885.0255	10218.81	283.0389	1	117362.2	143764	10501.85	133262.2	140383.5	2.8405
148.5098	96.5988	87.596		5.1649	2.1934	2.5416	12079.45	5380.933	1362.971	2051.922	3973.271	908.3584	10900.61	282.2157	0.9375	118674.9	145757.7	11182.82	134574.9	142157.9	2.5149
138.5915	108.9631	87.2692		6.02	2.3967	2.8247	11286.55	5195.671	1344.57	1960.566	3550.744	833	9638.471	304.9029	0.7659	117988	143831.4	9943.374	133888	140630.6	2.7951
151.4985	117.1576	88.0253		5.9171	2.4459	2.914	12041.47	5217.964	1346.784	1953.681	4280.557	840.482	11769.61	282.9544	0.9924	116123.4	144075.9	12052.56	132023.4	140196.2	2.8748
144.3043	115.1145	88.3043		6.6133	2.5682	2.9545	11238.25	5067.128	1331.803	2268.783	3335.538	833	9075.567	488.1252	0.7991	117530.9	142974.6	9543.692	133430.9	139902.5	2.9287
155.7938	119.013	87.1295		4.9538	2.4589	2.9332	12542.59	5426.382	1367.485	1971.515	4447.925	927.2789	12231.8	282.9441	1	115716.1	144130.9	12514.75	131616.1	140102.4	2.8921
150.6843	132.417	86.6407		5.2116	2.6333	3.1904	12017.92	5370.813	1361.966	1744.689	4234.309	904.1436	11644.35	283.5821	1	114742	142569.9	11927.93	130642	138730.3	3.1438
156.1926	139.9897	87.6696		4.9183	2.7124	3.3072	12660.16	5434.363	1368.278	2171.621	4353.292	930.6121	11971.55	283.7991	1	113909.3	142064.7	12255.35	129809.3	1381179	3.2559
142.1162	177.3381	87.7411		7.4808	3.1423	3.941	11139.39	4879.171	1313.134	1844.314	3867.767	833	10636.36	285.701	1	111423.6	138245.4	10921.76	127323.6	134729.6	3.8779
144.1173	89.6935	86.5143		5.5053	2.2426	2.4458	11466.55	5307.184	1355.646	2231.364	3272.717	877.6422	8831.999	504.5875	0.6893	120374.1	145610.7	9336.587	136274.1	142605.3	2.4328
140.911	108.5679	88.3572		6.1764	2.4395	2.823	11070.16	5161.771	1341.203	1893.628	3438.559	833	9331.017	390.6895	0.7616	118127.7	143749.4	9721.707	134027.7	140620	2.7971
151.1266	160.8767	88.0711		7.525	2.9452	3.6504	11972.58	4861.45	1311.374	2299.853	4264.899	833	11728.13	284.5912	0.9981	112253	140165.8	12012.72	128153	136298.9	3.59
146.766	132.4554	86.8693		6.5046	2.6557	3.2234	11523.36	5090.665	1334.141	1963.062	3900.497	833	10726.36	283.7706	0.9999	115170.6	142080.8	11010.13	131070.6	138536.6	3.1794
143.0686	176.2527	87.171		7.1388	3.1183	3.9057	10938.52	4953.261	1320.493	1393.365	4036.402	833	11100.11	285.2525	1	111310.5	138595.9	11385.36	127210.5	134930.9	3.841
156.2223	94.5302	87.3095		4.9763	2.1487	2.4758	12387.21	5421.805	1367.03	1994.113	4276.881	925.3816	11746.41	281.986	0.9616	118461	146389.4	12028.39	134361	142517.5	2.4489
142.6618	136.2546	87.1504		6.9116	2.6797	3.2588	11528.3	5002.49	1325.383	1740.92	4224.503	833	11571.46	283.7431	0.9067	114428	142183.2	11855.2	130328	138367	3.2105
140.3333	120.5113	86.8753		6.3469	2.5323	3.0413	10937.15	5124.835	1337.534	1680.892	3558.893	833	9765.704	283.474	0.9417	116769.8	142719	10049.18	132669.8	139484.2	3.0055
146.1816	121.406	87.5816		6.4556	2.5358	3.0465	11318.75	5101.294	1335.196	1944.602	3702.657	833	10110.42	283.4449	0.8533	116515.2	142809.1	10393.87	132415.2	139463.3	3.0093
156.1805	150.2208	87.1332		5.1504	2.8183	3.4633	12461.88	5384.09	1363.284	1946.383	4456.446	909.6733	12255.23	284.1052	1	112898.3	141337.7	12539.33	128798.3	137301.3	3.406
157.1098	128.9319	86.3423		6.4756	2.5799	3.1117	12381.39	5096.949	1334.765	2284.236	4430.437	833	12168.74	283.3437	0.9628	114813.8	143165.9	12452.08	130713.8	139157.6	3.0654
157.7023	115.0143	86.7803		5.278	2.4171	2.8716	12443.22	5356.431	1360.537	2114.96	4311.14	898.1536	11855.64	282.8508	1	116291.2	144329.7	12138.49	132191.2	140422.3	2.8333
152.6709	101.61	87.0415		5.5627	2.2785	2.6671	11885.88	5294.738	1354.41	2269.024	3693.25	872.4584	10063.95	282.5849	0.8213	118563.8	144810.3	1034			

TABLE 2

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
153.0866	178.4734	86.9035		7.7265	3.0936	3.8694	12039.43	4825.934	1307.847	2050.268	4620.381	833	12706.05	284.9289	1	110461	139352	12990.98	126361	135170.2	3.7971
134.8048	148.006	86.884		7.6152	2.8487	3.5079	10443.27	4850.05	1310.242	1322.778	3725.199	833	10137.13	284.493	0.801	114045.8	140367.4	10421.63	129945.8	137012.7	3.459
143.9988	125.8027	87.1361		6.3778	2.5718	3.0997	11537.05	5118.111	1336.867	1880.533	3966.543	833	10904.42	283.4702	0.9869	115709.7	142797.6	11187.89	131609.7	139196.2	3.0583
151.3318	150.2679	87.1185		5.666	2.3605	2.7881	11975.96	5272.357	1352.187	1773.537	4312.745	863.1367	11854.36	282.6664	0.9823	116733.9	144770.9	12137.03	132633.9	140864	2.7523
139.5582	121.3375	87.3219		6.9584	2.6549	3.0719	10928.47	4992.344	1324.375	2039.827	3336.922	833	9046.813	482.0063	0.749	116912.7	142341.5	9528.82	132812.7	139274.2	3.044
155.2992	130.5855	86.6411		5.0157	2.6064	3.1507	12363.42	5413.266	1366.182	1943.132	4317.014	921.8255	11871.79	283.4661	1	114802.5	142857.7	12155.26	130702.5	138945	3.1044
139.295	145.321	85.381		7.6044	2.8697	3.4842	10908.98	4852.372	1310.473	2042.274	3468.859	833	9491.99	356.7459	0.8885	114532.3	140281	9848.736	130432.3	137110.7	3.441
157.6188	158.1128	86.5202		5.6495	2.8937	3.5745	12436.03	5275.936	1352.542	1970.23	4570.694	864.6275	12569.41	284.3057	1	112105.4	140859.2	12853.72	128005.4	136721.5	3.5124
145.482	118.427	87.1469		6.2095	2.4902	2.9792	11355.5	5154.611	1340.492	1804.349	3821.047	833	10481.46	283.2485	0.9346	116627.9	143292.6	10764.71	132527.9	139827.4	2.9425
145.8628	100.8317	86.8639		5.472	2.2595	2.639	11665.41	5314.402	1356.363	1870.73	3841.269	880.6486	10490.04	282.4771	0.8551	118430	145102.5	10772.52	134330	141634.8	2.6109
143.7781	106.887	87.6798		5.8042	2.3539	2.7782	11378.76	5242.427	1349.214	1925.915	3608.531	850.6708	9857.127	282.8608	0.8595	118109.5	144149.5	10139.99	134009.5	140885.4	2.7484
150.191	120.7619	84.7517		6.1964	2.5164	3.0179	11725.93	5157.439	1340.773	2130.27	3862.445	833	10617.42	283.3201	0.9845	116332.9	143133.6	10900.75	132232.9	139624.7	2.9797
137.8234	119.2388	87.9315		6.4311	2.516	3.0172	11022.33	5106.605	1335.724	1748.885	3596.112	833	9779.768	283.4171	0.792	116888.9	142852	10063.19	132788.9	139612.7	2.9819
154.354	124.3547	87.9899		6.4014	2.5536	3.0728	12477.41	5113.039	1336.363	2811.931	3981.079	833	10930.3	283.4067	0.9538	115835.2	142948.9	11213.71	131735.2	139339.3	3.0321
147.9439	153.1497	87.491		5.8432	2.8614	3.5268	11924.16	5233.968	1348.374	1797.728	4294.947	847.1475	11811.11	284.3059	1	112852.5	140847.9	12095.41	128752.5	136954.4	3.4697
140.9288	107.4324	88.4675		6.5819	2.5423	2.8156	11434.54	5073.918	1332.477	2618.774	3174.371	833	8575.132	601.0097	0.7018	118492.1	143568.2	9176.142	134392.1	140614.4	2.7981
138.9509	120.689	86.9357		7.4309	2.7747	3.0758	10670.61	4889.972	1314.207	2163.889	3067.538	833	8276.626	710.6548	0.6868	117210.5	142097.8	8987.28	133110.5	139204.8	3.0568
154.2914	101.4516	86.5274		5.3153	2.2574	2.636	12084.45	5348.346	1359.734	2069.035	4010.545	894.786	11022.95	282.4153	0.9803	118092.4	145297.8	11305.37	133992.4	141658.6	2.6065
153.6589	151.0544	87.9551		5.2192	2.8425	3.499	12353.45	5369.172	1361.803	2073.236	4243.78	903.4603	11670.4	284.2634	1	113091.8	140946.5	11954.66	128991.8	137098.3	3.4433
155.4579	101.7038	86.9233		5.3856	2.2659	2.6485	12317.79	5333.115	1358.221	2416.57	3919.441	888.4425	10764.4	282.4702	0.9609	118197.4	145144.2	11046.87	134097.4	141588.2	2.6194
141.3114	201.4503	87.8514		6.8104	3.3452	4.2403	11329.38	5024.417	1327.561	1593.521	4148.877	833	11409.41	285.9512	1	109340.6	136936	11695.36	125240.6	133171.2	4.1639
152.2153	188.0704	86.8178		3.4556	3.2736	4.0816	12087.9	5751.284	1399.755	1503.894	3968.354	1062.61	10912.98	285.6765	1	110500.1	137598.7	11198.65	126400.1	133993.9	4.0129
145.5166	148.1164	87.7528		5.634	2.8236	3.471	11614.34	5279.303	1352.877	1655.293	4058.834	866.0297	11161.8	284.2702	1	113572.2	140918.3	11446.07	129472.2	137233.8	3.4184
142.1062	110.5498	87.257		6.7701	2.6013	2.8786	11181.13	5033.141	1328.427	2454.733	3129.827	833	8481.068	632.8358	0.7422	118192	143205.9	9113.904	134092	140272.1	2.8609
151.8335	123.9534	89.0331		5.9613	2.5301	3.0382	12203.55	5208.377	1345.832	2140.058	4270.797	836.4889	11744.69	283.2324	1	115482	143409.9	12027.92	131382	149558.1	2.9956
154.2069	118.7585	87.6413		4.5131	2.4781	2.9614	12330.53	5522.167	1376.999	1983.355	4078.828	967.1827	11216.78	283.1233	1	116237.1	143637	11499.91	132137.1	139935.2	2.9227
142.1559	129.2446	87.7782		6.7635	2.6225	3.1744	11434.9	5034.568	1328.569	1986.635	3850.124	833	10513.27	283.6865	0.8536	115570.7	142267.6	10796.95	131470.7	138792.1	3.1325
149.4234	109.0199	87.3668		5.71	2.3466	2.7676	11805.12	5262.835	1351.241	1713.133	4216.738	859.1707	11564.95	282.6522	0.9312	117034.6	144782.2	11847.6	132934.6	140968.4	2.7331
146.026	106.7978	86.9989		5.6981	2.3388	2.756	11456.77	5265.407	1351.496	1733.509	3844.112	860.2421	10535.61	282.737	0.9175	117778.4	144496.7	10818.34	133678.4	141013.4	2.7247
154.6105	116.7377	87.0731		5.216	2.4685	2.9472	11717.18	5369.863	1361.871	1861.987	3817.716	903.7479	10498.72	283.174	1	116786.7	143468.6	10781.9	132686.7	139997.9	2.9112
155.8775	114.6383	87.105		5.5128	2.3979	2.8433	12224.83	5305.564	1355.485	1730.584	4554.234	876.9675	12524.15	282.7141	1	115998.7	144705.5	12806.86	131898.7	140583	2.8039
153.3068	158.5744	87.2507		6.8632	2.9463	3.6519	11911.06	5012.977	1326.424	2411.638	3925.02	833	10793.81	284.7274	1	112853.8	139832.4	11078.53	128753.8	136266.2	3.596
142.9976	121.1956	85.7467		6.6201	2.5683	3.0589	11141.54	5065.652	1331.656	1994.171	3515.062	833	9557.686	330.4326	0.7895	116773.6	142561.8	9888.118	132673.6	139378.8	3.0248
139.2058	147.5301	89.0354		6.8438	2.809	3.4495	11398.29	5017.18	1326.842	1645.444	4173.824	833	11478.02	284.1796	1	113479.2	141141.4	11762.2	129379.2	137355.1	3.3962
144.2456	134.851	86.5035		6.5706	2.6865	3.2688	11200.29	5076.381	1332.722	1695.126	3861.06	833	10617.91	283.8868	1	115000.9	141802.7	10901.8	130900.9	138293.4	3.224
146.2463	149.2815	88.4388		6.7407	2.8046	3.4431	11866.31	5039.522	1329.061	1757.015	4505.717	833	12390.72	284.0428	1	112916.2	141491	12674.77	128816.2	137410.9	3.3859
155.4158	111.1617	87.432		5.2025	2.374	2.8079	12194.49	5372.793	1362.162	1941.607	4210.955	904.9684	11580.13	282.7402	1	116810.7	144573.5	11862.87	132710.7	140754.9	2.7723
147.0805	124.1371	87.569		6.3491	2.558	3.0793	11532.41	5124.362	1337.487	1971.111	3864.449	833	10622.03	283.4581	0.982	116004.1	142809.6	10905.48	131904.1	139299.1	3.0394
134.927	118.1263	87.3083		7.5469	2.8015	3.0355	10180.7	4864.841	1311.711	1832.232	2936.914	833	7904.36	816.0413	0.656	117585.7	142206.1	8720.402	133485.7	139399	3.0211
145.8087	145.7776	87.1813		7.1694	2.7893	3.4205	11499.04	4946.625	1319.834	1816.274	4181.305	833	11490.45	284.1134	0.9759	113624.7	141299.2	11774.57	129524.7	137509	3.3679
139.3367	88.7155	86.7258		5.6973	2.2973	2.4338	10853.2	5265.577	1351.513	1886.82	3086.98	860.3126	8338.557	267.2088	0.7011	120662.1	145531.9	8965.766	136566.1	142645.8	2.4253
135.1846	102.1689	88.2718		5.6465	2.3049	2.6899	10848.07	5276.595	1352.608	1418.178	3533.784	864.902	9639.035	303.7608	0.8366	118706	145458.8	9942.796	134606	141348.2	2.6634
141.4878	123.8824	87.6001		6.4815	2.5596	3.0816	11090.87	5095.683	1334.639	1624.023	3801.522	833	10416.05	283.4881	0.9124	116127.6	142727.1	10699.53	132027.6	139282.9	3.0424
156.6662	71.7701	88.269		3.9685	1.84	2.0204	12452.02	5640.156	1388.718	2288.224	3716.599	1016.325	10163.52	281.1018	0.8777	121939.4	148284.1	10444.62	137839.4	144921.9	2.0077
152.5145	148.3502	85.6827		5.5017	2.8282	3.4778	11655.19	5307.972	1355.724	1681.86	4029.667	877.9705	11081.59	284.2964	1	113588.4	140854.3	11365.88	129488.4	137195.6	3.2544
138.3235	86.0416	86.0984		5.6861	2.2899	2.3802	10567.79	5268.004	1351.754	1683.128	3001.584	861.3238	8086.694	683.3648	0.6685	121074.5	145744.5	8770.059	136974.5		

TABLE 2

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
139.6054	112.0974	88.2769		6.2669	2.4597	2.8882	11038.85	5142.179	1339.257	1813.044	3509.368	833	9501.996	344.0755	0.7317	117707	143453.1	9846.071	133607	140283.6	2.8588
140.6591	102.1533	86.4814		5.9893	2.3942	2.7009	10842.11	5202.31	1345.23	1733.415	3325.195	833.9622	9048.485	463.4419	0.8008	118904.1	144316	9511.927	134804.1	141254.1	2.6807
137.9038	100.1616	86.4741		5.7697	2.3425	2.6576	10885.45	5249.89	1349.955	1658.787	3371.04	853.7793	9203.716	419.7839	0.8513	119068.9	144592.4	9623.5	134968.9	141494.5	2.6366
143.7454	124.4187	87.2003		6.8364	2.6354	3.1214	11472.35	5018.771	1327	2442.591	3448.99	833	9398.513	378.9109	0.8216	116504.8	142182.2	9777.424	132404.8	139034.9	3.0879
139.3806	136.1957	85.0902		7.4662	2.8153	3.3352	10795.5	4882.318	1313.447	1993.148	3371.59	833	9195.836	447.327	0.8352	115442	140985.2	9643.163	131342	137881.1	3.2997
152.9701	117.9223	87.2013		6.1646	2.4741	2.9556	12020.33	5164.327	1341.457	2295.923	3983.625	833	10922.57	283.144	0.9256	116462.5	143568.2	11205.72	132362.5	139961.1	2.918
152.6907	115.5292	88.4136		5.8544	2.4214	2.878	12161.18	5231.541	1348.133	1985.558	4347.81	846.1367	11953.06	282.8541	0.9882	116192.7	144328.6	12235.91	132092.7	140389.9	2.8393
158.4476	95.2051	88.1099		5.0604	2.1638	2.498	12783.48	5403.558	1365.22	2524.52	4170.368	917.7914	11441.74	282.065	0.9383	118546	146169.8	11723.81	134446	142395.9	2.4712
146.3053	99.5454	88.5758		5.5062	2.2768	2.6378	11601.03	5306.988	1355.627	2156.481	3502.358	877.5646	9584.355	317.8968	0.8898	119007.8	144810.1	9902.252	134907.8	141622.5	2.6131
147.7289	130.0816	87.7267		5.9033	2.5983	3.1389	11891.49	5220.957	1347.082	1729.941	4349.777	841.7286	11961.89	283.4288	1	114806.1	142951.4	12245.32	130706.1	139009.7	3.0926
145.0374	159.5035	85.8849		6.7275	2.9482	3.6548	11400.55	5042.37	1329.344	1762.603	4031.23	833	11085.89	284.6924	1	112648.2	139918.8	11370.58	128548.2	136258.6	3.5974
141.0599	155.5504	87.2628		7.4297	2.8927	3.5729	11309.25	4890.233	1314.233	1652.025	4217.755	833	11597.61	284.4377	0.9947	112747.9	140530	11882.05	128647.9	136705.1	3.5154
158.5449	136.9535	86.6691		5.367	2.6839	3.2651	12751.32	5337.152	1358.622	2499.207	4264.215	890.1238	11726.59	283.7373	1	114292.9	142203.2	12010.33	130192.9	138337.1	3.216
144.8348	88.1199	87.0354		5.3836	2.23	2.4135	11401.2	5333.55	1358.265	2209.84	3208.919	888.6236	8749.661	522.7931	0.8308	120586.5	145759	9272.455	136486.5	142774.2	2.4088
148.9187	150.345	87.7991		6.558	2.8457	3.5036	11653.63	5079.106	1332.992	1914.402	4092.133	833	11253.37	284.3306	1	113340	140777.7	11537.7	129240	137063.7	3.4496
147.8147	89.085	88.1074		4.3206	2.1009	2.4051	11981.49	5563.876	1381.141	1955.766	3694.152	954.5541	10158.92	281.9784	1	119894.4	146235.3	10440.9	135794.4	142874.4	2.3834
144.7099	145.0789	87.5076		6.1658	2.7886	3.4193	11585.2	5164.07	1341.431	1766.281	4078.419	833	11215.66	284.1474	1	113810.7	141210.5	11499.8	129710.7	137508.7	3.368
149.1324	134.2893	86.6983		5.6038	2.6714	3.2465	11840.5	5285.843	1353.526	1940.758	3989.615	868.7538	10971.44	283.7918	1	114886.9	142042.1	11255.24	130786.9	138419.1	3.2009
138.3218	79.4491	87.0136		5.7083	2.2846	2.247	10807.62	5263.209	1351.278	2196.592	2735.217	859.3265	7310.543	848.777	0.5757	122173.3	146232.6	8159.32	138073.3	143606.1	2.2491
146.263	110.1758	86.7564		5.9145	2.385	2.8241	11699.75	5218.535	1346.841	2065.464	3826.196	840.7197	10451.8	282.9004	0.8596	117471.8	144106.5	10734.7	133371.8	140651	2.7914
144.5287	106.0564	86.854		5.7243	2.3379	2.7547	11465.78	5259.725	1350.932	1905.57	3689.676	857.8755	10095.61	282.7813	0.8875	118076.8	144355.2	10378.39	133976.8	141014.4	2.7247
141.9328	97.8372	86.7894		5.9289	2.3726	2.618	11469.98	5215.397	1346.529	2111.931	3231.71	839.4128	8777.42	530.8216	0.7738	119469.9	144678.2	9308.242	135369.9	141681.8	2.6022
156.6637	134.1412	88.1578		5.7996	2.6444	3.2068	12555.52	5243.421	1349.313	2339.22	4370.48	851.0846	12018.83	283.5717	1	114409.2	142611.6	12302.4	130309.2	138651.5	3.1583
149.0586	123.9148	86.579		6.4919	2.5599	3.082	11556.59	5093.417	1334.414	2089.057	3804.705	833	10420.15	283.4886	0.9042	116122.5	142726.1	10703.63	130225.5	139280.6	3.0428
154.3349	118.0101	85.604		4.6461	2.4818	2.9669	11915.85	5493.351	1374.137	1828.295	3862.884	955.1803	10622.93	283.2042	1	116600	143406.2	10906.14	132500	139895.5	2.93
154.0394	110.1509	86.1064		5.8491	2.3697	2.8016	12061.22	5232.698	1348.248	2148.434	4083.224	846.6188	11163.16	282.7717	0.8733	117120.2	144466.2	11445.93	133020.2	140781.7	2.7674
153.7685	168.5405	87.7867		4.9169	3.018	3.7578	12329.36	5434.678	1368.309	1854.786	4338.844	930.7432	11931.82	284.7993	1	111552.9	139669.5	12216.62	127452.9	135737	3.6931
141.1154	110.0836	87.0425		6.0752	2.4263	2.8484	11099.63	5183.705	1343.382	1839.518	3498.029	833	9544.717	331.4065	0.8418	117901.5	143677.6	9876.123	133801.5	140498.5	2.8194
152.9521	124.3389	88.4075		6.2078	2.5444	3.0592	11964.36	5154.97	1340.528	2115.207	4118.657	833	11325.87	283.3289	0.9976	115646.8	143156	11609.2	131546.8	139419	3.0175
153.7199	104.8188	87.104		5.5982	2.3205	2.729	12026.98	5287.05	1353.646	2421.402	3693.623	869.2564	10137.76	282.7182	0.9466	118185.6	144506.1	10420.47	134085.6	141151.8	2.6995
154.3563	217.878	86.9891		6.0953	3.4555	4.403	12103.81	5179.342	1342.948	1839.843	4506.675	833	12393.36	286.1448	1	107849.9	136429.4	12679.51	123749.9	132347.9	4.315
144.6726	100.6724	86.6442		5.4683	2.2696	2.654	11511.53	5315.201	1356.442	1955.231	3601.672	880.9813	9863.846	282.5757	0.9037	118766.4	144812.8	10146.42	134666.4	141546.7	2.627
148.8125	135.8514	87.2318		5.7975	2.6872	3.2699	11936.71	5243.867	1349.357	2065.637	4024.576	851.2707	11067.59	283.8321	1	114699.6	141951	11351.42	130599.6	138297	3.2233
138.2917	137.295	87.476		7.0572	2.7206	3.3191	10946.44	4970.942	1322.249	1626.086	3792.162	833	10386.69	284.0304	0.9058	114885.5	141456.2	10670.72	130785.5	138021.3	3.2739
147.7773	115.5042	87.4503		6.101	2.4611	2.9363	11793.31	5178.124	1342.827	2350.115	3687.247	833	10116.7	283.1929	0.9392	117097.1	143397	10399.89	132997.1	140049.2	2.9018
140.2933	134.5045	86.3519		6.9958	2.7027	3.2926	11259.88	4984.248	1323.571	2147.178	3569.882	833	9777.074	284.0486	0.9043	115425.9	141387.1	10061.12	131325.9	138148.4	3.2506
143.5982	84.1123	87.5732		5.6985	2.3015	2.3434	11404.28	5265.317	1351.488	2653.447	2871.824	860.2407	7773.81	754.6835	0.7284	121422.8	145851.3	8528.494	137322.8	143106	2.3409
144.2667	149.4002	86.9732		6.2616	2.8374	3.4914	11413.18	5143.311	1339.37	1632.89	4062.611	833	11172.18	284.3145	1	113457.3	140813.8	11456.5	129357.3	137125.9	3.4382
137.2547	143.0886	86.7746		7.4165	2.7958	3.4298	10854.36	4893.096	1314.517	1724.139	3687.606	833	10042.53	284.3278	0.8123	114522.5	140749.3	10326.85	130422.5	137425.1	3.3833
152.4062	140.6997	86.5822		6.1806	2.7122	3.3069	11859.71	5160.869	1341.113	1649.632	4473.095	833	12301.02	283.756	1	113694.6	142179.4	12584.77	129594.6	138128.3	3.2543
143.1845	126.4075	87.143		6.493	2.5898	3.1261	11304.23	5093.184	1334.391	1839.615	3802.039	833	10445.94	283.5855	0.9702	115871.3	142500.8	10729.53	131771.3	139046.9	3.0857
155.9623	116.0067	86.9636		4.1875	2.4491	2.9187	12377.78	5592.71	1384.005	2016.981	3985.523	996.5638	10960.19	283.0569	1	116633.2	143776.4	11243.25	132533.2	140157.2	2.882
146.8215	137.1644	87.2318		6.2967	2.6979	3.2856	11592.72	5135.718	1338.615	1790.767	4092.623	833	11254.72	283.8433	1	114493.7	141932.2	11538.56	130393.7	138218	3.2378
153.2937	123.0707	87.9292		3.6277	2.5375	3.049	12219.54	5713.998	1396.052	1679.387	3981.021	1047.08	10947.83	283.3511	1	115949.8	143081	11231.18	131849.8	139465.7	3.0089
146.8946	147.4334	86.2952		7.3468	2.8169	3.4612	11503.76	4908.183	1316.016	1988.992	4055.87	833	11128.43	284.2527	0.9398	113646.2	140958.9	11412.68	129546.2	137285.2	3.409
142.6269	143.0032	87.7028		7.0391	2.7852	3.4143	11341.61	4974.854	1322.638	2018.652	3790.465	833	10423.2	284.2417	0.9968	114355.7	140963.2	10707.45	130255.7	137516	

TABLE 2

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
148.9055	132.2753	86.8414		6.6907	2.6429	3.2045	11668.26	5050.344	1330.136	1984.569	4068.216	833	11174.74	283.672	0.9647	114976.2	142334.6	11458.41	130876.2	138646.1	3.1593
145.8315	86.94	87.9889		5.2602	2.1924	2.3854	11751.01	5360.294	1360.921	2464.525	3263.504	899.7625	8888.259	486.4777	0.8135	120673.9	145948.7	9374.736	136573.9	142930.9	2.373
153.7325	186.1876	87.0319		6.0221	3.2094	4.0399	12056.46	5195.208	1344.524	2184.755	4096.977	833	11266.69	285.5271	1	110492.2	137944.4	11552.22	126392.2	134225.8	3.9704
156.7696	146.2856	86.8464		3.5737	2.8097	3.4506	12618.14	5725.692	1397.213	2073.509	3967.777	1051.951	10911.39	284.2581	1	113844.3	140940	11195.65	129744.3	137336.1	3.3996
150.7935	147.3394	87.7322		6.8686	2.7922	3.4248	12181.9	5011.805	1326.308	2226.403	4382.386	833	12051.56	284.0479	1	113234.9	141470.5	12335.61	129134.9	137499.7	3.3696
140.6209	196.8901	87.6778		7.0052	3.3082	4.1856	11301.28	4982.198	1323.367	1658.736	4101.981	833	11280.45	285.8504	1	109712.7	137179	11566.3	125612.7	133455.8	4.1117
151.9794	124.1393	86.1247		5.7173	2.5495	3.0668	11936.68	5261.244	1351.083	2065.736	3998.115	858.5079	10994.82	283.3853	1	115824.8	143003	11278.2	131724.8	139372.6	3.026
143.0377	117.3491	87.9958		6.3135	2.4835	2.9694	11314.66	5132.072	1338.253	1871.791	3737.546	833	10165.78	283.2627	0.794	116888.6	143237.7	10449.05	132788.6	139874.1	2.9339
153.5044	141.1652	87.0917		5.3962	2.7222	3.3216	12407.46	5330.814	1357.993	2025.457	4403.709	887.484	12110.2	283.813	1	113742	142036	12394.02	129642	138046.3	3.2693
156.6123	105.1128	86.1591		5.3725	2.3072	2.7094	12164.51	5335.953	1358.503	2182.931	3995.495	889.6246	10987.5	282.5838	0.9992	117726.1	144896.2	11270.08	133626.1	141268.4	2.6781
154.6597	170.5682	86.9873		7.3773	3.038	3.7873	11963.91	4901.581	1315.36	2168.792	4343.175	833	11943.73	284.8626	1	111389.3	139517.9	12228.6	127289.3	135581.5	3.7216
146.8763	116.8011	89.2287		6.0615	2.4487	2.9181	11846.7	5186.666	1343.676	1912.271	4169.09	833	11437.17	283.0014	0.9363	116321	143941.2	11720.17	132221	140168.5	2.8799
155.3237	116.7506	88.301		3.5456	2.4819	2.9671	12597.34	5731.795	1397.82	2415.209	3596.203	1054.493	9889.57	283.2894	1	117083.3	143156.2	10172.86	132983.3	139881.5	2.9326
154.3114	128.1341	87.2292		6.3271	2.5731	3.1016	12207.12	5129.123	1337.96	2120.95	4384.088	833	12055.3	283.3354	0.9958	114941.5	143180.2	12338.63	130841.5	139208.4	3.0561
146.5669	99.102	87.4971		5.7083	2.3154	2.6344	11314.28	5263.203	1351.278	2026.345	3412.135	859.3239	9284.097	397.5363	0.7993	119157.6	144739.3	9681.634	135057.6	141622.7	2.6131
136.7217	124.2419	89.1753		7.0193	2.6876	3.1248	10958.67	4979.15	1323.065	2092.211	3329.246	833	9074.715	476.1131	0.8257	116617.6	142068.4	9550.828	132517.6	138994	3.0954
153.5487	73.3212	88.0706		4.021	1.8611	2.0515	12289.31	5628.794	1387.589	2075.055	3784.279	1011.593	10368.52	281.1563	0.9119	121636.1	148185.8	10649.68	137536.1	144757.6	2.0378
154.0896	120.7748	87.4743		4.5753	2.4977	2.9904	12111.7	5508.689	1375.66	1696.586	4167.196	961.5689	11459.8	283.1596	1	115923.4	143566.4	11742.96	131823.4	139786.3	2.9501
151.4416	126.5051	87.3864		4.976	2.5679	3.094	11786.12	5421.868	1367.037	1510.061	4159.747	925.4081	11439.31	283.3929	1	115387.5	143010.2	11722.7	131287.5	139236.7	3.0509
148.3404	173.0497	86.4082		6.1547	3.0913	3.8658	11660.2	5166.488	1341.671	1940.877	3976.16	833	10934.44	285.1881	1	111629.1	138748.8	11219.63	127529.1	135137.2	3.8031
137.345	194.7451	87.2952		8.3288	3.2852	4.1518	10733.29	4695.43	1294.885	1365.113	4142.86	833	11392.87	285.7565	1	109819.4	137398.1	11678.62	125719.4	133638.7	4.0781
155.9044	76.5584	87.5023		4.4112	1.9453	2.1436	12229.92	5544.236	1379.191	2409.228	3518.897	976.3741	9532.115	323.7692	0.7377	121670.3	147426.2	9855.884	137570.3	144253.6	2.1303
142.3457	132.1944	85.5237		6.797	2.6585	3.2275	11065.88	5027.321	1327.849	1656.096	3819.615	833	10478.54	283.8111	0.9365	115311.4	141973.8	10762.35	131211.4	138509.4	3.1844
149.9631	174.8505	86.4941		6.0763	3.1005	3.8794	12108.8	5183.459	1343.357	2260.193	4086.791	833	11238.68	285.1727	1	111359.6	138783.4	11523.85	127259.6	135073.9	3.8147
149.664	102.4947	87.2496		5.4964	2.2941	2.6901	11739.35	5282.498	1353.194	2206.487	3627.807	867.3603	9884.856	282.6562	0.8201	118560.2	144627.7	10167.51	134460.2	141354.8	2.6622
143.4146	114.5652	88.2046		5.963	2.4302	2.8908	11528.52	5208.022	1345.797	1735.188	4001.175	836.3413	10987.58	282.9912	0.9582	116763	143933.6	11270.57	132663	140305.6	2.8548
148.4654	171.6209	88.4131		6.6583	3.0386	3.7882	11866.33	5057.375	1330.834	1772.538	4470.581	833	12294.1	284.8128	1	111157	139635.9	12578.92	127057	135586.8	3.7206
142.6817	106.1077	85.4434		6.192	2.4408	2.7789	10957.77	5158.397	1340.868	1863.009	3360.499	833	9106.612	451.3132	0.7429	118460.1	143918	9557.925	134360.1	140841.3	2.7565
149.0236	73.1486	87.6858		4.5405	1.982	2.0772	12030.41	5516.227	1376.409	2520.958	3250.107	964.7085	8808.548	483.0291	0.7445	122375.3	147566.9	9291.578	138275.3	144575.9	2.0712
155.5503	140.7484	87.1547		5.4425	2.7392	3.3466	12401.71	5320.79	1356.997	2351.358	4087.258	883.3091	11239.96	283.9815	1	114180.2	141604.2	11523.94	130080.2	137894.6	3.2972
146.7938	118.6916	87.902		6.4415	2.5184	3.01	11458.68	5104.336	1335.498	2228.164	3555.687	833	9668.011	297.5918	0.7893	116988.6	142854.2	9965.603	132888.6	139646.3	2.9757
152.3841	110.2233	87.8664		5.376	2.3486	2.7705	12199.86	5335.205	1358.429	1774.039	4440.876	889.313	12212.41	282.5888	1	116590	144985	12495	132490	140962.9	2.7342
153.8192	126.3994	86.5954		6.0087	2.5452	3.0605	12096.41	5198.122	1344.814	1821.35	4947.128	833	12367.1	283.2076	1	114953.7	143504	12650.31	130853.7	139431.8	3.0151
135.2764	147.4693	87.6946		7.9528	2.9245	3.5235	10525.19	4776.899	1302.976	1762.162	3448.151	833	9324.685	411.8565	0.7155	114385.8	140022.4	9736.541	130285.8	136888.2	3.4818
147.3177	105.7155	89.1259		5.1396	2.3209	2.7297	12027.99	5386.41	1363.515	2072.924	3892.497	910.6398	10704.37	282.6595	1	117806.1	144693.1	10987.03	133706.1	141156.4	2.6986
152.7607	112.9546	87.5582		5.0675	2.4049	2.8535	12477.93	5402.049	1365.068	2315.965	4075.7	917.1533	11208.18	282.8829	1	116815.2	144206.2	11491.06	132715.2	140507.3	2.8178
143.278	140.3393	87.7094		5.438	2.743	3.3521	11499.85	5321.77	1357.095	1571.48	3963.789	863.7173	10900.42	284.0383	1	114373.3	141457.8	11184.46	130273.3	137857.5	3.304
151.3895	107.8396	88.6626		6.0003	2.34	2.7579	12044.78	5286.603	1353.602	2080.539	4052.964	889.071	11139.66	282.6764	0.9806	117367.8	144690.2	11422.34	133267.8	141013.3	2.7249
135.5419	124.284	85.6711		7.3578	2.7705	3.1357	10218.7	4905.814	1315.781	1600.899	3162.016	833	8586.899	623.2775	0.7718	116758.2	141868.4	9210.176	132658.2	138903.6	3.112
139.7169	78.9556	88.3157		4.8562	2.0739	2.2097	11500.15	5447.828	1369.615	2092.719	3251.769	936.2201	8833.395	487.3632	0.7761	121647.6	146868.4	9320.758	137547.6	143868.1	2.2011
150.9927	83.4129	87.4391		3.9814	1.9986	2.2543	12225.01	5637.36	1388.44	1677.831	4104.22	1015.161	11286.61	281.5357	1	119943.1	147411.2	11568.14	135843.1	143687.4	2.2342
145.2952	123.4715	86.6078		6.6636	2.58	3.0987	11227.44	5056.228	1330.72	2052.678	3552.812	833	9658.897	300.7455	0.7874	116520.4	142380.1	9959.642	132420.4	139174.1	3.0624
149.8274	151.0518	87.3802		6.1641	2.8606	3.5256	11727.54	5164.449	1341.469	1996.034	3990.587	833	10974.11	284.4182	1	113405.5	140564	11258.53	129305.5	136939.9	3.4723
151.9539	104.9244	86.2922		5.5656	2.3105	2.7143	12023.87	5294.119	1354.348	2202.987	3898.214	872.2007	10698.5	282.6255	0.945	117891.6	144772.8	10981.13	133791.6	141237.9	2.6837
145.4105	104.2494	86.5671		6.2183	2.447	2.746	11463.03	5152.692	1340.301	2449.84	3285.194	833	8897.907	506.8946	0.736	118727.5	144032.3	9404.801	134627.5	141004.9	2.7264
138.4168	107.1134	87.932		6.4368	2.508	2.8055	10560.79	5105.362	1335.6	1649.151	3235.682	833	8765.312	547.3392	0.7382	118464.2	143676.8	9312.651	134364.2	140679.1	2.7862

TABLE 2

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
139.2933	97.7769	87.9096		5.9878	2.381	2.618	11059.27	5202.648	1345.263	2054.431	3220.822	834.1027	8715.169	547.2602	0.7233	119498	144660.4	9262.429	135398	141678.8	2.6028
153.4879	166.7979	86.8701		5.3615	2.9991	3.73	12081.44	5338.345	1358.741	1736.417	4355.32	890.6207	11977.13	284.7313	1	111670.3	139832.2	12261.87	127570.3	135885.1	3.6659
145.1893	231.7618	87.2552		7.7799	3.5674	4.5682	11470.4	4814.348	1306.696	1599.865	4514.497	833	12414.87	286.5026	1	106966.2	135567.6	12701.37	122866.2	131479	4.4744
147.0058	139.6723	85.7791		7.1505	2.742	3.3506	11284.15	4950.733	1320.242	1892.59	3885.581	833	10633.56	284.0697	0.8906	114556.3	141373.9	10917.63	130456.3	137859.5	3.3036
150.667	100.5071	86.8748		5.456	2.2525	2.6288	12187.06	5317.874	1356.708	2336.98	3891.404	882.0944	10618.64	282.4407	0.8426	118399	145200.1	10901.08	134299	141691.1	2.6005
147.3853	96.7323	87.3008		5.3156	2.2137	2.5714	11794.67	5348.286	1359.728	2148.969	3640.929	894.7611	9937.003	282.3794	0.8456	119157.2	145276.6	10219.38	135057.2	141987	2.5462
148.071	146.2256	87.1487		6.0806	2.7866	3.4166	11751.78	5182.541	1343.266	1703.539	4287.439	833	11790.46	284.0646	1	113449.3	141423.8	12074.52	129349.3	137537	3.3628
146.3889	96.216	88.349		4.9687	2.193	2.541	11518.11	5423.448	1367.194	1529.076	3870.327	926.0659	10643.37	282.2398	0.9997	118849.3	145674.9	10925.61	134749.3	142157.9	2.5149
153.5682	125.8257	87.2027		5.9516	2.5354	3.0461	12199.3	5210.491	1346.042	1860.083	4543.311	837.3697	12494.11	283.1609	1	114946.2	143623.5	12777.27	130846.2	139510.5	3.0007
147.8641	83.2664	87.6044		5.0447	2.1289	2.3042	11741.88	5406.976	1365.558	2362.624	3285.521	919.2057	8935.244	469.7614	0.7923	121090.1	146395.1	9405.005	136990.1	143367.6	2.2929
154.0032	156.1308	87.9136		6.7095	2.8893	3.5679	12078.76	5046.267	1329.731	2119.558	4348.207	833	11957.57	284.3765	1	112539.5	140681.5	12241.95	128439.5	136740.8	3.5089
148.6612	117.5	87.0383		6.0967	2.4728	2.9536	11626.82	5179.055	1342.92	1959.822	3910.019	833	10740.68	283.1606	0.9657	116592.9	143516.7	11023.84	132492.9	139968.2	2.9167
144.2055	119.0385	87.9178		5.8106	2.5005	2.9945	11564.2	5241.027	1349.075	1953.625	3768.386	850.0875	10363.06	283.2968	1	116625.2	143171.6	10646.36	132525.2	139744.5	2.9577
147.0791	128.5288	86.9334		4.6512	2.6122	3.1592	11876.11	5492.233	1374.025	1803.745	3849.388	954.7148	10585.82	283.6432	1	115603.6	142373.1	10869.46	131503.6	138874.2	3.1174
146.6832	138.1092	87.5748		5.0828	2.7315	3.3351	11824.64	5398.722	1364.738	1987.884	3755.53	915.7676	10327.71	284.0745	1	114838.9	141350.7	10611.78	130738.9	137934.7	3.2898
144.4342	109.6524	87.6415		6.403	2.515	2.8518	11582.33	5112.688	1336.328	2616.441	3281.875	833	8945.89	499.7903	0.8262	118137.4	143483.1	9445.68	134037.4	140442.5	2.8296
147.2819	142.9233	88.0936		6.8785	2.7455	3.3559	11932.99	5009.66	1326.095	2009.982	4352.251	833	11968.4	283.907	0.9983	113653.7	141806	12252.31	129553.7	137862	3.3031
145.1623	109.1702	87.0908		6.2422	2.4516	2.8353	11079.09	5147.527	1339.788	1917.802	3438.976	833	9305.772	398.1143	0.7237	118072.7	143676.6	9703.886	133972.7	140552.9	2.8094
141.4162	176.3231	87.3357		6.7817	3.1157	3.9018	11477.04	5030.627	1328.177	1805.109	4078.122	833	11214.84	285.2265	1	111256.4	138656.5	11500.06	127156.4	134954.6	3.8366
144.0531	134.0357	87.8737		6.6291	2.6497	3.2147	11611.96	5063.699	1331.462	1709.501	4272.294	833	11746.18	283.6232	0.9903	114546.7	142476.5	12029.8	130446.7	138604.1	3.167
148.2518	130.7546	85.2388		6.5555	2.6342	3.1917	11405.62	5079.648	1333.046	1836.541	3921.383	833	10782.34	283.6921	0.9935	115302.1	142268.1	11066.03	131202.1	138705.9	3.1483
146.2887	71.3458	88.0588		4.4668	1.9659	2.037	11937.88	5532.197	1377.995	2454.738	3199.591	971.3601	8694.514	504.8006	0.7807	122648.4	147747.7	9199.314	138548.4	144786.5	2.0325
148.4727	179.7034	87.216		4.6573	3.1744	3.9883	11803.01	5490.924	1373.896	1825.481	3756.54	954.1698	10330.48	285.5572	1	111371	137887.1	10616.04	127271	134469.8	3.9256
146.3847	179.2161	88.0982		6.1638	3.1678	3.9785	11799.6	5164.514	1341.475	2278.974	3779.634	833	10394	285.5253	1	111381.6	137961.2	10679.52	127281.6	134523.4	3.9158
151.2043	96.9746	88.1803		5.3278	2.2128	2.5701	12099.66	5345.637	1359.465	2370.497	3728.407	893.6579	10160.01	282.3541	0.8217	119015.8	145358.2	10442.36	134915.8	141996.8	2.5444
144.3797	107.767	86.1255		5.6719	2.3443	2.7641	11302.82	5271.082	1352.06	1448.946	3966.127	862.6057	10888.84	282.7174	0.953	117501	144572.5	11171.56	133401	140976.4	2.7317
134.1981	92.7468	85.812		7.1198	2.6772	2.5603	10197.73	4957.373	1320.902	2379.108	2305.347	833	6182.619	1200.904	0.6142	120971.1	144254.6	7383.523	136871.1	141877.8	2.5663
151.0663	150.5593	85.6536		5.8753	2.8515	3.5121	11665.72	5227.012	1347.683	1801.057	4043.722	844.2505	11120.24	284.3679	1	113381.7	140686.3	11404.6	129281.7	137015.2	3.4585
147.814	95.0327	87.9451		5.5661	2.2691	2.5519	11780.18	5296.183	1354.553	2467.175	3387.209	873.0603	9201.357	416.1752	0.7762	119636.6	145154.1	9617.532	135536.6	142058.2	2.5332
143.6827	170.5213	87.0657		8.0899	3.074	3.8402	11281.08	4747.197	1300.026	2126.362	3872.498	833	10646.83	285.1737	0.9898	111951	138783	10932	127851	135264	3.7799
153.6486	128.0847	86.6843		5.2062	2.6035	3.1464	11948.57	5371.989	1362.082	2006.376	3901.485	904.6332	10729.08	283.5966	1	115577.4	142490.1	11012.68	131477.4	138945.1	3.1044
148.2154	113.6448	86.1833		5.5689	2.4197	2.8754	11570.77	5293.395	1354.276	1675.418	3973.783	871.8988	10927.91	282.9632	1	116884.5	143995.3	11210.87	132784.5	140386.6	2.8399
148.9523	144.5845	87.5082		5.8908	2.7632	3.3821	12062.51	5223.67	1347.351	1884.261	4362.367	842.8586	11996.51	283.9611	1	113496.7	141677.2	12280.47	129396.7	137724.1	3.3285

TABLE 2

yield draws	crude oil price draws	corn acres draws	No mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
154.983	128.1956	87.5983		6.3388	2.59	3.1266	12262.53	5126.595	1337.709	2431.765	4131.46	833	11361.35	283.475	0.9989	115266.2	142811.1	11644.82	131166.2	139062.6	3.0828
153.789	149.3452	87.4082		4.706	2.8473	3.5059	12481.5	5480.359	1372.846	2360.695	3915.835	949.7694	10768.55	284.402	1	113644.3	140597.3	11052.95	129544.3	137039.3	3.4541
151.9295	85.8726	85.9022		4.6316	2.0336	2.3059	12034.17	5496.477	1374.447	1666.852	4137.907	956.4828	11335.2	281.6467	0.9082	119636.5	147153.3	11616.85	135536.5	143413.8	2.2844
152.4272	159.354	86.4574		4.9943	2.9606	3.673	11950.43	5417.908	1366.643	1997.457	3842.664	923.7585	10567.33	284.8075	1	112889.2	139641.4	10852.14	128789.2	136148.1	3.6176
149.7803	134.2462	88.3377		5.4435	2.6587	3.2278	12158.97	5320.565	1356.975	2022.835	4173.376	883.2152	11476.78	283.6863	1	114654	142314.4	11760.47	130554	138528.8	3.1808
143.3843	108.9103	87.1798		6.3665	2.4957	2.8362	11298.32	5120.592	1337.113	2292.403	3313.211	833	9002.9	482.9459	0.7802	118197.1	143582.9	9485.846	134097.1	140529.5	2.8137
139.2288	170.4465	86.8955		8.0062	3.0492	3.8037	10980.09	4765.316	1301.826	1494.264	4183.687	833	11502.31	284.9645	0.9896	111588.9	139276.2	11787.28	127488.9	135481.9	3.7399
153.5437	174.0728	87.4849		6.8182	3.0659	3.8285	12338.61	5022.726	1327.393	2323.039	4430.455	833	12183.75	284.9177	1	111016	139384.6	12468.67	126916	135371	3.7602
151.9356	135.8788	87.4296		6.1791	2.6596	3.2292	12008.17	5161.194	1341.146	1827.509	4443.327	833	12199.15	283.5958	1	114159.2	142561.9	12502.75	130059.2	138537.3	3.1792
145.1429	139.5772	88.6283		6.9627	2.7237	3.3237	11703.68	4991.424	1324.284	2029.127	4123.848	833	11329.3	283.9187	0.9685	114243	141756.3	11613.22	130143	138018	3.2745
155.5501	143.1082	86.0114		6.877	2.7356	3.3414	12112.11	5009.988	1326.127	2016.793	4524.198	833	12440.7	283.8135	0.9962	113420.7	142045.2	12724.52	129320.7	137949.2	3.2872
154.2464	173.3538	87.1587		4.5004	3.1031	3.8832	12310.17	5524.924	1377.272	2174.364	3863.283	968.3308	10624.03	285.2742	1	111738	138547.3	10909.3	127638	135035.6	3.8218
142.9881	189.2301	86.9935		5.6556	3.2235	4.0609	11456.58	5274.613	1352.411	1290.934	4272.549	864.0764	11749.51	285.4974	1	110069.6	138004.6	12035.01	125969.6	134130.6	3.9878
150.0368	111.6461	86.5388		5.8858	2.4124	2.8646	11602.36	5224.733	1347.457	2122.706	3662.162	843.3012	10060	283.0358	0.9662	117515.9	143758.9	10343.04	133415.9	140429.5	2.832
142.8926	84.4054	86.3542		5.3308	2.1907	2.3349	11282.96	5345	1359.402	2084.004	3199.164	893.3926	8613.119	549.837	0.6602	121074.4	146137.4	9162.956	136974.4	143187.8	2.3259
141.2781	109.5096	86.1775		5.9375	2.3908	2.8326	11321.33	5213.552	1346.346	1948.395	3572.394	838.6444	9756.731	282.9965	0.8567	117886.5	143826.2	10039.73	133786.5	140594.4	2.8018
147.9069	106.6737	86.1648		5.5162	2.3339	2.7488	11567.33	5304.824	1355.411	1740.564	3887.876	876.6591	10690.64	282.7043	0.9951	117713.4	144586.7	10973.35	133613.4	141054.4	2.7174
144.9396	120.392	87.6474		6.3762	2.5159	3.0171	11464.88	5118.482	1336.903	1955.567	3818.926	833	10434.33	283.3399	0.8633	116457.7	143075.4	10717.67	132357.7	139625.3	2.9796
153.4371	89.7166	87.2667		3.9636	2.0956	2.3973	12249.03	5641.218	1388.823	1815.572	3984.652	1016.767	10957.79	281.886	1	119403	146542.7	11239.68	135303	142924.6	2.3742
148.5198	150.5557	87.0919		6.3258	2.8117	3.4536	11989.28	5129.411	1337.989	1688	4598.876	833	12646.91	284.0312	1	112693.3	141524.3	12930.95	128593.3	137361.8	3.3949
156.6002	86.1606	87.9714		3.1999	2.0445	2.322	12643.2	5806.689	1405.258	1962.338	3981.232	1085.686	10948.39	281.7177	1	119809.2	146939.4	11230.11	135709.2	143324.4	2.3008
143.4461	104.8839	87.6306		5.8252	2.3491	2.7452	11300.89	5237.864	1348.761	1939.629	3523.866	848.7702	9591.923	317.0517	0.8051	118431.7	144240.7	9908.975	134331.7	141051	2.718
138.5994	148.4978	86.6955		8.1069	2.981	3.5458	10610.47	4743.505	1299.66	1990.523	3341.779	833	9080.036	492.4681	0.7794	114359.1	139831.6	9572.504	130259.1	136750.2	3.5072
151.6181	93.7466	87.5281		5.1306	2.1664	2.5017	12137.33	5388.372	1363.71	2333.62	3738.624	911.4568	10219.08	282.1925	0.8701	119340.4	145741.7	10501.27	135240.4	142361.3	2.4776
149.0445	80.7419	89.0979		4.5199	1.9852	2.2345	11938.71	5520.687	1376.852	2101.958	3570.65	966.5662	9724.647	281.6275	0.8133	121093.3	146999.6	10006.27	136993.3	143778.6	2.2175
138.3663	124.0922	87.168		7.7932	2.8933	3.1477	10764.56	4811.471	1306.41	2523.32	2888.363	833	7847.632	847.0774	0.7787	116998.4	141593.2	8694.71	132898.4	138794.3	3.1321
152.6395	154.7789	86.9009		5.652	2.9315	3.63	11896.01	5275.393	1352.488	2430.764	3570.96	864.4011	9820.146	284.8159	1	113604.4	139609.3	10104.96	129504.4	136356.5	3.5794
144.8951	75.9991	86.5277		5.3305	2.1949	2.1645	11424.95	5345.057	1359.408	2637.107	2787.958	893.416	7526.979	833.0237	0.6946	122523.2	146733.2	8310.002	138423.2	144058.2	2.1662
141.8833	133.2211	88.0521		6.7447	2.6463	3.2096	11514.59	5038.649	1328.974	1723.21	4188.76	833	11494.54	283.6434	0.9425	114739	142417.2	11778.19	130639	138625.8	3.163
152.9902	111.0079	87.4056		5.795	2.3769	2.8122	12417.89	5244.42	1349.412	2435.49	4135.072	851.5007	11349.54	282.7749	0.9469	116940.8	144473.1	11632.31	132840.8	140728.6	2.7771
150.9446	146.0117	87.1018		7.3008	2.8021	3.4393	11745.59	4918.168	1317.008	2231.83	4043.583	833	11092.81	284.2084	0.9362	113785.6	141062.6	11377.01	129685.6	137400.3	3.3879
158.8906	109.4319	88.2468		4.5208	2.3497	2.7721	12547.62	5520.488	1376.832	2037.02	4244.8	966.4834	11673.2	282.6506	1	116938.7	144794.6	11955.85	132838.7	140946	2.7373
138.0562	82.5137	88.3043		5.8863	2.338	2.316	11043.83	5224.632	1347.447	2500.377	2726.116	843.2594	7310.839	282.039	0.6139	121792.8	145865.7	8172.878	137692.8	143234.9	2.3173
138.8402	164.9043	87.9209		7.2692	3.014	3.7518	11186.99	4924.998	1317.686	1804.364	3904.946	833	10738.61	284.9605	1	112360.3	139283.8	11023.57	128260.3	135735.3	3.6934
137.9838	114.2665	86.7903		6.546	2.5419	2.9365	10688.48	5081.706	1333.251	1659.061	3379.461	833	9168.734	440.5465	0.7587	117588.7	143097.9	9609.28	133488.7	140004.7	2.91
135.0128	164.4532	86.5123		7.886	2.9957	3.7248	10728.02	4791.361	1304.413	1308.723	4088.528	833	11235.29	284.8276	0.9754	112180.2	139600.3	11520.12	128080.2	135892	3.6646
151.1134	99.0098	86.4143		5.6162	2.2815	2.6284	11894.83	5283.161	1353.26	2483.514	3505.261	867.6366	9502.586	339.4507	0.7481	119093.8	144835.8	9842.037	134993.8	141667.7	2.6048
150.9599	159.496	86.6698		6.9513	2.952	3.6604	11782.83	4993.878	1324.527	2250.677	3987.744	833	10941.55	284.7255	1	112712.5	139838.8	11226.27	128612.5	136225	3.6035
158.3586	119.3912	88.6421		3.7806	2.492	2.982	12497.82	5680.88	1392.763	2008.867	3980.023	1033.287	10945.07	283.2007	1	116307.6	143435.9	11228.27	132207.6	139821.5	2.9436
154.1542	109.9006	87.3879		5.5137	2.348	2.7697	12032.57	5305.358	1355.465	1714.376	4378.49	876.8815	12040.71	282.6055	0.9991	116708	144931.4	12323.31	132608	140964.5	2.7339
148.081	109.3661	87.5029		6.178	2.4496	2.8385	11529.7	5161.438	1341.17	2364.494	3427.599	833	9335.869	389.782	0.8146	118042.6	143668.3	9725.651	133942.6	140537.6	2.8122
141.8173	127.9807	87.5957		7.1175	2.7155	3.1902	11123.17	4957.868	1320.951	2238.242	3371.113	833	9189.599	444.0585	0.827	116220.7	141754.4	9633.657	132120.7	138653.3	3.158
154.4131	101.9826	87.2721		5.2244	2.2341	2.6017	12419.41	5368.045	1361.691	1817.82	4566.862	902.9908	12553.55	282.1832	0.9839	117256.9	145992.6	12835.73	133156.9	141860.8	2.5694
141.37	129.897	86.9793		7.2295	2.7603	3.2271	11160.46	4933.607	1318.541	2357.534	3315.777	833	9067.399	482.8869	0.8777	116072.1	141522.3	9550.286	131972.1	138448.1	3.1956
150.1105	77.6192	86.4683		4.8132	2.0617	2.1807	11556.89	5457.147	1370.541	2161.394	3225.707	940.1017	8761.407	501.8004	0.7742	121838.8	147002	9263.207	137738.8	144020.2	2.1732
153.3046	110.8052	86.5941		5.7779	2.3814	2.8189	12155.38	5248.128	1349.78	2294.194	4008.235	853.0454	11010.68	282.8271	0.9662	117129.7	144323.2	11293.51			

TABLE 2

yield draws	crude oil price draws	corn acres draws
149.3976	153.238	87.0669
150.9763	134.3386	88.7765
143.4316	98.2405	87.4119
154.0182	87.8167	88.4692
155.6236	130.9441	87.9271
144.0749	134.3943	86.8879
157.9638	107.4119	88.03
148.4493	142.1046	87.0739
140.9131	163.9635	88.7388
151.3027	115.6253	86.7323
144.9954	122.0301	87.4763
139.5499	108.9955	87.0647
138.3716	151.9983	87.6467
139.4801	95.5514	88.1259
144.6487	117.7522	87.1718
139.1734	68.3946	85.5808
152.0039	87.376	87.7827
158.1802	146.8442	87.9729
145.0376	141.4828	86.9308
137.3051	99.4768	87.8318
157.0183	134.6131	85.8616
148.1074	112.8532	87.4783
140.1639	195.2319	87.5491
155.3134	126.5133	86.7112
147.6712	101.0302	86.6095
154.7548	72.9442	86.6623
145.8128	131.1625	87.5276
151.4643	147.6451	86.5202
146.8922	132.9313	86.2498
153.5234	129.9593	87.8296
156.9089	142.5046	87.5687
144.6961	127.2633	87.2995
153.7661	128.4629	86.8128
153.5561	102.5235	86.6377
153.8637	112.6884	87.3043
140.5267	154.1908	87.3376
139.5279	146.07	87.3238
147.2167	161.6265	87.9868
153.7958	87.5213	86.9924
142.4852	132.8787	87.5112
148.9481	111.437	89.1041
145.613	134.4663	87.1196
152.5807	121.2804	88.6289
146.544	157.2633	88.1741
152.8763	112.577	87.0478
147.7709	152.2561	87.0674
149.9524	143.0936	87.4539
144.3748	158.2771	86.4337
144.5016	107.6331	87.5209
149.2011	150.4235	88.3227
151.4392	89.6812	87.8671
135.8696	94.347	86.7142
145.694	109.8365	88.2227
145.3727	178.3111	86.8889
152.8486	182.2598	86.5912
151.5251	124.5837	87.3324
151.214	144.7251	87.0359
157.7367	98.5266	89.1719
142.4239	118.5083	85.1007
143.9019	124.9196	86.0982
151.4275	154.1329	88.2845
151.8545	118.4547	87.0887
152.8946	152.6457	88.1691
155.806	117.4907	87.4651
155.3449	103.8753	87.7914
145.3835	111.1163	87.8561
148.765	143.4535	87.7697
153.8961	148.7026	86.378
150.6315	161.8056	87.4104

TABLE 2

yield draws	crude oil price draws	corn acres draws
144.5259	150.5422	86.8177
151.3643	140.3242	87.722
137.4858	138.7261	87.7718
157.9088	174.036	87.8696
144.3311	133.5824	88.6395
150.4692	137.3594	87.4932
149.2147	88.0786	86.8911
148.1496	111.7586	86.3496
156.8153	125.1213	87.2528
141.4872	149.0355	87.575
144.1895	104.7672	86.9868
145.5094	114.4849	87.0839
151.9111	123.331	87.5112
145.5125	87.9992	88.6169
140.5736	105.9366	86.3352
154.5385	136.8717	86.7884
141.1434	116.9603	87.8597
147.5899	162.9124	87.4625
137.7406	124.4174	87.4588
143.2957	142.7005	87.2719
143.2929	122.7861	86.3155
141.9797	110.7879	86.813
151.3739	107.5761	87.0107
136.1197	117.0685	87.6172
134.8637	129.708	88.3075
147.0606	102.9345	87.8629
138.0171	111.8329	87.678
142.6514	98.7451	86.4669
156.7515	99.5053	87.3241
154.6372	132.2082	87.0574
144.0936	104.1055	86.7629
142.5699	100.0141	88.6125
139.83	165.9821	87.0748
154.0091	169.1177	88.4499
151.7941	137.409	87.96
153.7616	98.4204	88.3698
148.7717	130.466	87.3175
148.3052	135.2786	87.6513
142.0122	154.716	87.5326
150.6393	139.7137	87.3035
147.6786	93.0475	87.6235
158.3773	87.8361	88.2037
141.8932	106.1242	86.4721
142.9509	156.5496	85.8512
156.0865	148.5365	88.321
150.3366	121.3781	87.2078
146.9459	151.5014	88.5326
142.6011	119.7741	86.7178
155.0264	157.2993	87.0282
155.5689	74.8171	87.125
146.6603	112.1698	86.6829
152.4228	158.9735	86.6793
138.388	138.6557	87.8912
144.0927	105.0346	87.4743
147.3722	108.1369	87.2234
144.5835	113.1938	87.283
146.0761	149.014	88.3811
148.3354	116.693	86.7063
144.6125	110.8242	87.4538
148.4434	117.6412	87.7291
154.883	151.6239	86.2706
147.4413	121.4201	87.4964
156.8175	168.4338	86.1278
155.4552	125.3016	87.5502
147.8528	122.6733	87.492
153.1699	133.6863	86.0578
139.9508	104.0966	86.1077
153.6516	103.2739	86.7136
144.8243	162.3849	86.4496

TABLE 2

yield draws	crude oil price draws	corn acres draws
150.4495	106.4112	87.2265
145.0338	226.0405	85.9416
146.3029	108.2261	87.5501
146.1797	197.2865	87.4851
151.31	110.7012	89.0371
148.8062	87.1803	87.644
150.043	136.0381	88.2708
150.8809	106.5683	86.7623
159.217	168.7731	88.4943
150.8427	89.089	87.607
148.1299	114.361	84.2972
152.6255	142.3058	88.3246
140.9667	119.1603	86.6086
144.2828	140.1904	86.7141
155.4112	117.0599	87.5478
152.2423	76.0806	87.6268
143.6931	113.7101	87.6318
149.9461	103.8798	86.8928
136.8134	146.9344	88.1949
140.7075	135.0393	86.7554
149.4961	73.7067	87.1997
150.7039	90.689	87.7684
144.0819	110.7844	88.1576
148.6723	104.0308	87.2144
135.1752	134.5529	86.4333
143.301	118.4673	87.7392
145.4312	116.6619	87.101
151.9867	109.8505	85.7286
142.5736	115.3948	87.5564
158.5725	155.5131	86.2033
145.7426	94.2662	86.7669
141.4585	109.9175	87.8481
144.3886	166.7663	85.3163
140.0267	106.1881	88.4699
154.6577	139.7812	86.9903
144.4682	124.9247	86.981
149.079	156.3966	86.1215
148.653	118.6719	88.2598
145.1694	141.361	86.6204
148.1897	117.0084	87.672
142.5043	137.1187	86.598
136.3782	105.1769	87.1369
140.9001	97.0079	87.3725
156.6287	144.73	87.3357
150.4556	154.3258	86.9414
135.2295	188.2843	87.6311
136.2496	94.7115	85.302
155.2874	163.4074	86.5554
133.7786	135.0528	88.045
145.0684	120.8601	87.2123
148.2882	179.154	88.0096
149.6909	113.4868	86.1233
155.9518	206.7365	88.6358
137.6392	151.3271	86.0675
153.927	103.7162	86.62
144.9008	93.9822	86.7499
150.363	84.8966	87.2332
152.178	122.5624	87.8953
152.4528	108.9884	86.5587
145.7613	115.3527	88.4152
147.2933	110.4153	87.34
148.9885	140.1317	86.119
143.7095	125.9604	86.905
148.1162	147.0038	87.6208
143.6089	86.5168	86.736
137.6474	206.1394	86.7306
151.9084	132.9018	88.399
154.1767	196.5081	86.3403
154.1815	73.718	86.5295

TABLE 2

yield draws	crude oil price draws	corn acres draws
148.2148	152.7066	88.0973
147.4466	148.7819	87.6672
150.3208	94.1778	86.5147
158.6022	161.7914	88.7319
145.4276	74.7875	86.9166
154.4098	98.8962	86.5018
152.3944	96.0972	87.302
153.5183	119.2177	87.2
136.0391	97.5975	88.3509
144.5054	132.6676	87.6563
155.1768	74.4032	88.016
144.9554	113.6295	88.0888
149.1907	74.5391	85.7267
148.3729	110.0979	87.1051
146.5328	137.2781	86.272
144.9592	112.2366	86.2249
145.2403	148.632	86.2931
149.0726	125.6679	86.8743
148.4016	99.4032	87.166
143.0579	175.0736	87.5418
159.1075	112.5785	87.0529
142.0361	145.5876	87.6589
153.8639	118.6565	87.7933
147.4593	162.7529	85.4749
152.1354	83.4632	87.8546
153.6468	106.7113	87.8588
144.8288	123.6417	88.057
139.3582	123.3361	87.48
147.6673	131.2784	87.0398
146.9436	123.8812	86.3066
146.9777	88.3066	87.7062
148.3414	120.1707	87.3938
146.1599	120.1588	87.8738
145.5947	94.4112	87.6058
154.5531	104.4566	87.552
134.5151	122.2231	87.1948
144.045	147.5238	88.3088
148.745	111.5613	86.7612
144.3622	162.4355	86.9648
159.4145	144.7449	86.4318
150.4417	148.0823	87.593
148.1718	103.0775	88.4916
145.7983	99.7314	87.3451
156.4633	116.2733	88.0869
140.8108	152.7583	87.6876
154.3805	137.7229	86.9288
143.4421	91.8093	88.4149
140.959	97.3698	87.7917
142.2839	115.8646	86.5683
155.6562	87.9122	88.6411
136.7351	173.4748	87.1807
150.5239	118.4612	87.6768
148.5103	122.9112	87.162
154.6708	95.9547	87.1649
150.0565	98.1469	86.754
140.8698	138.5984	86.4034
151.8097	102.6666	86.9916
144.4778	120.4967	87.3142
152.3304	120.7045	86.2529
145.754	115.9031	86.9978
148.1952	108.6659	87.939
146.1434	84.7939	89.2793
142.6851	131.6113	86.1888
137.1692	126.7658	87.7684
152.9914	94.3919	87.063
150.5181	211.8278	88.6561
153.0236	133.5727	87.5998
140.8308	128.1656	87.4631
149.3924	126.7898	86.3425

TABLE 2

yield draws	crude oil price draws	corn acres draws
149.7141	102.7544	87.6546
157.4683	129.3443	86.7973
156.898	152.6069	87.3091
142.721	151.8192	87.6969
154.5368	124.4433	88.7972
150.467	126.959	86.4542
146.4314	138.8076	88.5788
144.0692	128.5777	85.6596
147.7461	126.1893	86.4809
159.411	140.9894	87.5158
147.4708	203.6516	87.539
144.892	152.4692	87.0281
150.9351	150.4456	87.5027
142.1229	112.6705	88.2791
137.8743	118.799	86.8111
143.134	122.5899	87.8147
149.1877	192.9648	88.039
149.9811	92.8908	86.9561
158.5246	121.9543	87.8996
138.2361	115.8391	87.7025
150.7557	100.736	86.8686
150.0452	134.7967	87.939
142.7213	79.2449	86.981
142.1114	141.9527	88.0002
143.7125	106.7394	87.7257
149.0059	123.9172	87.5345
150.4948	80.935	88.9183
151.7411	153.3175	87.3192
155.1523	99.1933	87.5707
158.8835	117.1961	87.2103
157.3741	104.1532	86.4554
150.535	167.0959	87.0963
143.5396	108.5508	88.1542
157.309	108.8591	87.6226
154.6324	121.9635	86.9154
135.3298	115.0106	87.1342
136.6864	122.4156	85.7099
139.9296	153.5836	85.0121
154.4185	92.7868	87.5209
147.0772	140.4612	86.9812
153.761	87.7049	87.224
152.4562	141.6147	86.5421
148.9572	141.4344	87.1786
152.2426	107.8029	88.383
140.0288	166.5993	88.1936
149.2156	83.924	87.5625
149.4844	92.346	87.1576
153.6509	107.9345	87.3869
145.5914	110.4677	86.1811
148.9872	133.842	87.3549
149.0889	117.4921	86.678
143.3166	93.7818	86.6024
153.5978	107.5188	89.2186
147.434	114.876	88.3614
136.9531	130.3195	85.4618
158.7772	122.9235	87.5302
146.3576	64.2017	87.6352
148.7902	145.5849	88.1225
144.2606	79.5634	87.3681
152.4932	97.9464	86.9789
148.4569	152.4621	89.0876
148.572	105.8182	86.9532
143.6621	146.9725	86.6371
156.185	116.2812	86.284
146.5356	100.1462	86.1863
141.891	105.9074	86.2641
149.9015	184.0173	86.766
154.2721	126.3528	88.2348
158.9922	129.1164	87.3425

TABLE 2

yield draws	crude oil price draws	corn acres draws
142.5265	133.4165	88.2148
153.8726	161.274	87.1202
136.4281	126.9144	87.4581
157.7676	111.705	87.897
153.0318	135.2209	88.1504
151.7865	142.0169	88.226
145.7336	113.6309	86.9588
155.3838	121.5145	86.8348
135.4981	95.8398	87.1786
151.3806	114.8071	87.677
158.6446	97.216	86.9705
151.9745	89.2007	88.5604
148.8757	136.8569	85.6774
156.1054	164.7239	87.4651
143.7565	58.4484	87.3596
158.0473	152.997	89.0061
145.1837	129.4574	87.6907
144.4571	119.5564	87.7455
158.0217	101.0382	88.9367
157.2683	118.8135	85.8545
150.2421	95.2606	87.8045
154.0035	86.4592	87.0658
141.0166	84.9387	86.933
152.8895	112.8649	87.7402
141.4129	118.3401	85.9921
155.1155	151.0242	87.4077
145.4123	122.2095	88.2165
146.499	149.8048	88.808
154.9215	107.0667	86.6684
145.347	172.8336	86.5864
154.8984	95.2847	86.2555
139.2638	117.5805	87.4241
146.7428	123.3769	87.2645
144.4036	89.3658	89.3341
151.7669	111.233	86.9153
152.0783	131.6575	86.5005
143.2099	98.0912	88.553
153.5285	87.2295	87.2057
149.8291	103.5354	88.3303
146.4457	122.0222	85.5619
138.0678	117.9764	87.3699
141.1897	131.5371	87.5603
154.0714	126.7734	87.14
151.1559	132.3461	86.9539
153.6761	128.1562	85.2238
149.4623	153.4808	87.489
142.4909	105.9795	87.9861
157.9403	109.4785	87.1903
143.2127	123.9245	86.0319
148.5331	135.1271	86.3941
151.2207	103.6307	88.1174
155.3717	198.1527	86.6691
148.5296	118.1051	85.6951
145.0968	111.4594	87.0695
145.3517	108.8629	87.7116
148.7457	140.17	86.9035
141.3524	144.4335	87.8226
147.7048	75.3114	87.7261
149.0794	104.342	87.282
151.1195	136.8633	86.2771
145.7988	112.8556	88.8107
147.9378	156.1135	85.6476
152.066	120.4095	86.7754
141.2917	154.7686	87.9181
139.3998	125.9151	88.732
145.7518	102.8572	87.1974
136.2512	86.0783	88.656
143.6201	119.6839	88.2832
150.3195	175.7096	86.8547

TABLE 2

yield draws	crude oil price draws	corn acres draws
144.2921	103.4627	88.9321
148.8587	149.5916	86.9268
152.179	97.4353	88.0261
137.5671	149.3227	86.7118
150.5352	141.873	85.8684
158.9467	104.9618	86.6165
153.4568	154.11	88.0572
156.6803	125.1926	88.558
158.1877	101.9763	86.5366
140.4679	134.0026	87.3036
142.3104	105.201	86.2326
153.3451	122.6565	87.7519
152.8499	115.128	87.1621
156.9824	191.7478	85.4907
158.9017	131.2765	87.9316
154.9415	132.071	87.6666
156.841	132.8414	87.8462
155.8149	130.6895	88.6369
155.1387	156.5091	87.7875
141.828	138.3336	86.919
140.7453	184.4836	86.4666
153.6821	133.5396	87.1085
151.6538	117.9778	87.5901
143.0647	141.5599	87.5671
151.6318	148.9784	87.3019
151.1237	131.5858	87.365
147.1592	181.7974	87.9936
152.9734	137.2825	87.6717
155.0381	103.9174	87.8899
141.2909	126.6327	86.2296
153.8382	89.7576	86.6912
146.4921	121.1073	87.9731
143.7756	82.2446	87.7434
153.7694	123.4069	86.6609
146.7772	118.2141	87.5873
149.2852	99.5366	87.077
145.383	80.2104	88.4522
152.1082	152.7	86.7525
147.2674	136.8178	86.1531
146.1409	160.4105	87.9153
154.479	132.8919	87.4505
146.0266	109.4933	86.8957
141.7798	147.5051	88.3752
146.5554	120.9412	86.5696
145.1526	78.3692	87.5838
154.4658	102.2389	87.2518
138.0998	112.5615	86.6829
144.4261	132.1487	87.3455
157.3508	116.7353	86.4346
143.7022	134.7739	86.8042
136.7026	152.7651	88.5963
138.878	99.6789	88.0204
151.2862	111.7004	87.8721
154.616	96.5528	87.7776
156.0426	107.2325	87.1392
139.6894	93.3153	88.6955
140.8786	98.1606	88.1053
154.7512	109.3322	86.8035
145.8989	82.2773	87.2041
151.739	113.4558	87.3914
147.5496	123.3485	86.1372
154.907	101.196	88.0624
153.9137	121.7652	87.4252
153.5889	126.5335	86.7479
153.5914	114.5876	87.2509
146.8138	123.4874	87.0548
149.4615	162.2654	88.9761
136.2111	127.4589	87.0788
143.5856	116.5725	86.7183

TABLE 2

yield draws	crude oil price draws	corn acres draws
136.8815	84.5661	87.3389
139.5608	99.3348	87.7475
151.1744	97.5501	86.57
141.1093	133.3993	86.6358
159.2218	86.2498	86.2016
141.7651	102.8283	86.0421
146.6317	123.1617	85.4913
144.2639	127.4689	86.9608
143.0113	164.7006	86.9274
151.2442	179.4702	88.3635
156.0224	128.4332	87.4649
141.779	134.3388	87.1206
154.3764	177.241	87.1625
152.4247	95.268	86.3997
136.9477	149.1162	86.6357
138.8092	91.8458	86.1832
149.3771	139.4657	87.0052
151.1272	97.3345	88.7019
142.1335	170.2984	88.2587
148.9721	128.8555	88.2495
140.6803	184.0973	86.8587
141.328	111.2525	87.2561
146.9493	115.4992	87.6797
154.3502	136.031	87.644
145.9348	107.9854	87.6493
143.8566	132.7083	87.006
148.394	87.1492	87.2397
141.832	91.5886	85.8532
140.1041	91.7482	86.5694
157.7586	141.0414	88.0572
155.2045	115.4917	86.9134
152.6771	157.4264	86.7201
140.0349	130.1629	88.164
156.244	131.4676	86.1922
143.4546	61.6002	88.0062
153.517	106.1453	87.176
155.3479	110.7302	87.7464
151.5808	163.3828	87.2649
151.6879	166.576	87.6551
152.6613	123.0036	86.5281
151.0897	108.0702	87.9149
144.1722	111.8263	86.1411
155.6635	109.9333	88.2504
154.697	164.5585	87.4793
152.2467	164.997	87.4738
145.4188	129.1412	87.5442
146.3302	108.5307	87.5258
153.5786	129.189	87.9394
150.3362	147.7171	87.2001
140.1503	152.0458	87.0252
150.0775	102.8795	87.6408
153.2343	164.1242	86.8601
142.2048	123.1274	88.1453
148.3756	142.6227	85.8238
148.8005	163.5482	88.2345
152.7455	144.1089	88.6402
152.3994	119.9689	87.8059
149.1256	133.6461	87.7443
151.74	129.2152	88.3177
148.1304	116.8682	87.9513
149.5079	109.0797	87.1311
151.4026	108.387	86.6314
148.6304	116.8429	87.2058
149.5327	120.9647	88.769
136.3355	109.9842	86.8144
145.3592	174.7805	88.5806
153.9214	100.779	87.8893
143.4345	211.5421	85.9626
152.6831	91.4293	86.5555

TABLE 2

yield draws	crude oil price draws	corn acres draws
142.4968	74.033	85.9516
143.3772	96.4933	86.7431
146.0263	177.4376	87.4625
152.2929	115.8973	87.7289
149.6458	119.303	87.2989
142.9188	109.371	87.4053
156.188	154.2529	87.0456
152.1485	106.4147	87.2619
139.7669	92.8639	85.7897
147.6382	87.7863	86.2447
152.2297	166.0608	86.8427
138.3442	112.9662	87.5455
153.7916	109.6923	87.6229
140.7321	111.7565	87.5469
147.2651	113.4872	87.1733
154.6049	129.8954	86.6759
144.5929	135.0524	87.8923
153.3127	130.4889	87.4495
155.3077	138.8724	86.5045
154.1354	136.8765	90.4219
133.9354	168.5208	87.9507
152.6972	160.7551	88.2279
158.7702	89.1551	86.7822
143.3906	141.2749	86.8747
149.8737	81.895	85.4262
159.2917	86.6433	89.7314
146.4447	82.6686	85.6822
140.7742	102.8854	87.8962
144.3383	167.0243	86.1204
137.378	89.1991	86.7285
153.4522	86.9882	87.1972
151.8693	120.7309	88.8066
154.4303	103.0721	86.8962
138.9254	159.5882	87.9292
159.2067	106.7149	88.3179
158.9329	114.9407	86.5793
156.5702	88.0808	88.2786
145.1365	133.8138	86.9336
153.4972	159.7785	87.6034
139.33	125.644	87.6171
149.5602	126.0744	87.9012
156.655	89.8448	87.3282
140.369	150.6689	86.5408
131.7555	135.7043	87.6432
156.3703	132.1906	87.8697
154.1902	93.5686	89.2688
141.1943	133.4565	87.5084
138.6784	73.3814	86.4016
138.052	123.8258	86.8213
144.9147	79.0814	86.5422
154.0179	142.6726	86.8897
153.5773	110.0767	88.467
137.9262	174.8876	86.6395
150.1914	139.053	87.4122
147.9323	96.2828	87.9177
139.5407	84.5947	87.3614
142.9276	163.7724	87.334
147.5277	182.3836	88.4114
154.3624	100.9596	87.1442
132.2901	120.4061	87.1153
142.6129	166.5747	86.742
148.3529	114.1639	88.9664
148.0214	129.946	88.7553
138.0739	142.714	87.9472
153.0595	111.4769	87.3055
144.9806	211.1522	86.3145
150.5602	93.1991	88.7457
154.3196	151.0714	88.3069
157.2946	101.2619	86.982

TABLE 2

yield draws	crude oil price draws	corn acres draws
152.2217	112.2063	87.5589
159.0978	104.5798	87.4717
149.9372	96.6361	87.6257
156.7786	126.0482	86.5276
156.7224	136.2659	88.5879
148.5603	135.2429	87.5184
152.3349	121.0134	87.768
151.2753	101.1412	87.601
152.068	116.7701	86.1078
147.3208	140.1228	87.1293
156.3347	107.1568	88.062
151.5408	111.5215	86.8222
148.9259	106.1518	87.7302
155.6404	119.921	87.5256
151.8232	109.9082	86.8556
151.4791	117.2738	86.9839
153.058	89.2063	86.2649
145.8312	123.6088	85.6879
153.2972	167.3322	84.8975
145.4974	131.4273	87.0233
138.7347	136.7646	87.8434
155.7043	99.0973	87.9821
149.6451	93.7448	88.7002
149.424	209.5631	88.1026
154.8087	112.383	87.5656
148.5098	96.5988	87.596
138.5915	108.9631	87.2692
151.4985	117.1576	88.0253
144.3043	115.1145	88.3043
155.7938	119.03	87.1295
150.6843	132.417	86.6407
156.1926	139.9897	87.6696
142.1162	177.3381	87.7411
144.1173	89.6935	86.5143
140.4911	108.5679	88.3572
151.1266	160.8767	88.0711
146.766	132.4554	86.8693
143.0686	176.2527	87.171
156.2223	94.5302	87.3095
142.6618	136.2546	87.1504
140.3333	120.5113	86.8753
146.1816	121.406	87.5816
156.1805	150.2208	87.1332
157.1098	128.9319	86.3423
157.7023	115.0143	86.7803
152.6709	101.61	87.0415
145.8701	104.1567	87.5943
145.3752	115.2785	89.1454
140.4763	161.424	87.2064
148.9597	119.541	87.3129
147.2888	137.5456	87.3862
157.3137	135.0596	87.0297
156.9368	128.5588	87.8727
147.4007	111.4878	87.2525
145.4234	135.8514	85.6645
140.4186	171.6162	87.82
155.9996	159.3558	87.3361
156.6077	105.2013	87.3973
151.0979	106.5885	86.9751
153.0798	126.7376	87.1901
141.9114	111.7933	86.5806
140.9455	170.2276	86.7524
145.7348	123.8911	86.9734
155.826	118.4217	87.3299
150.795	160.5597	86.7712
154.5773	124.7119	86.9221
140.9905	106.2114	87.3688
144.4767	134.4134	88.0983
140.4169	148.3098	88.3101

TABLE 2

yield draws	crude oil price draws	corn acres draws
153.0866	178.4734	86.9035
134.8048	148.006	86.884
143.9988	125.8027	87.1361
151.3318	110.5679	87.1185
139.5582	121.3375	87.3219
155.2992	130.5855	86.6411
139.295	145.321	85.381
157.6188	158.1128	86.5202
145.482	118.427	87.1469
145.8628	100.8317	86.8639
143.7781	106.887	87.6798
150.191	120.7619	84.7517
137.8234	119.2388	87.9315
154.354	124.3547	87.8989
147.9439	153.1497	87.491
140.9288	107.4324	88.4675
138.9509	120.689	86.9357
154.2914	101.4516	86.5274
153.6589	151.0544	87.9551
155.4579	101.7038	86.9233
141.3114	201.4503	87.8514
152.2153	188.0704	86.8178
145.5166	148.1164	87.7528
142.1062	110.5498	87.257
151.8335	123.9534	89.0331
154.2069	118.7585	87.6413
142.1559	129.2446	87.7782
149.4234	109.0199	87.3668
146.026	106.7978	86.9989
154.6105	116.7377	87.0731
155.8775	114.6383	87.105
153.3068	158.5744	87.2507
142.9976	121.1956	85.7467
139.2058	147.5301	89.0354
144.2456	134.851	86.5035
146.2463	149.2815	88.4388
155.4158	111.1617	87.432
147.0805	124.1371	87.569
134.927	118.1263	87.3083
145.8087	145.7776	87.1813
139.3367	88.7155	86.7258
135.1846	102.1689	88.2718
141.4878	123.8824	87.6001
156.6662	71.7701	88.269
152.5145	148.3502	85.6827
138.3235	86.0416	86.0984
153.4672	161.0154	86.8195
146.2386	115.756	86.1419
151.9423	199.0666	86.589
151.7371	109.2499	86.0293
140.7446	105.9352	87.6832
139.4346	135.2002	87.2805
150.7989	193.9004	87.0686
151.8944	143.5628	86.2784
139.1775	158.4036	87.97
133.9079	115.8138	88.5747
151.9714	89.9441	85.8963
154.4909	129.2307	86.3629
151.4394	170.6986	86.8153
156.2327	82.7449	86.5976
138.649	141.9759	86.9842
151.8509	114.6988	87.3224
148.4267	147.1733	86.7923
146.2081	177.1203	88.0872
141.538	86.9801	88.203
144.5662	118.3903	87.8197
142.2674	151.2303	87.3968
155.647	151.8837	87.5856
145.3437	107.8088	85.3923

TABLE 2

yield draws	crude oil price draws	corn acres draws
139.6054	112.0974	88.2769
140.6591	102.1533	86.4814
137.9038	100.1616	86.4741
143.7454	124.4187	87.2003
139.3806	136.1957	85.0902
152.9701	117.9223	87.2013
152.6907	115.5292	88.4136
158.4476	95.2051	88.1099
146.3053	99.5454	88.5758
147.7289	130.0816	87.7267
145.0374	159.5035	85.8849
141.0599	155.5504	87.2628
158.5449	136.9535	86.6691
144.8348	88.1199	87.0354
148.9187	150.345	87.7991
147.8147	89.085	88.1574
144.7099	145.0789	87.0076
149.1324	134.2893	86.6983
138.3218	79.4491	87.0136
146.263	110.1758	86.7564
144.5287	106.0564	86.854
141.9328	97.8372	86.7894
156.6637	134.1412	88.1578
149.0586	123.9148	86.5679
154.3349	118.0101	85.604
154.0394	110.1509	86.1064
153.7685	168.5405	87.7867
141.1154	110.0836	87.0425
152.9521	124.3389	88.4075
153.7199	104.8188	87.104
154.3563	217.878	86.9891
144.6726	100.6724	86.6442
148.8125	135.8514	87.2318
138.2917	137.295	87.476
147.7773	115.5042	87.4503
140.2933	134.5045	86.3519
143.5982	84.1123	87.5732
144.2667	149.4002	86.9732
137.2547	143.0886	86.7746
152.4062	140.6997	86.5822
143.1845	126.4075	87.143
155.9623	116.0067	86.9636
146.8215	137.1644	87.2318
153.2937	123.0707	87.9292
146.8946	147.4334	86.2952
142.6269	143.0032	87.7028
156.385	108.6997	87.6424
153.1629	101.3843	87.5405
156.3534	95.2965	86.7353
138.2815	135.9325	87.6808
135.729	120.6023	86.9136
138.2851	136.1274	86.6637
148.3568	105.9037	86.9669
147.4246	89.4487	87.141
157.9264	126.6029	86.8585
134.2421	93.5986	88.0509
143.0681	119.8055	88.5516
150.8947	142.8877	87.5469
149.05	110.9812	87.6751
137.1575	111.4831	87.3836
142.7666	95.1992	87.4019
151.0814	101.7885	87.7846
144.3031	145.7082	87.0507
137.4895	124.8749	86.777
146.0669	100.378	88.8251
142.7582	87.0007	88.0267
155.5382	152.047	85.846
145.7278	107.1431	87.1292
154.1187	124.1647	87.7617

TABLE 2

yield draws	crude oil price draws	corn acres draws
148.9055	132.2753	86.8414
145.8315	86.94	87.9889
153.7325	186.1876	87.0319
156.7696	146.2856	86.8464
150.7935	147.3394	87.7322
140.6209	196.8901	87.6778
151.9794	124.1393	86.1247
143.0377	117.3491	87.9958
153.5044	141.1652	87.0917
156.6123	105.1128	86.1591
154.6597	170.5682	86.9873
146.8763	116.8011	89.2287
155.3237	116.7506	88.301
154.3114	128.1341	87.2292
146.5669	99.102	87.4971
136.7217	124.2419	89.1753
153.5487	73.3212	88.0706
154.0896	120.7748	87.4743
151.4416	126.5051	87.3864
148.3404	173.0497	86.4082
137.345	194.7451	87.2952
155.9044	76.5584	87.5023
142.3457	132.1944	85.5237
149.9631	174.8505	86.4941
149.664	102.4947	87.2496
143.4146	114.5652	88.2046
148.4654	171.6209	88.4131
142.6817	106.1077	85.4434
149.0236	73.1486	87.6858
155.5503	140.7484	87.1547
146.7938	118.6916	87.902
152.3841	110.2233	87.0864
153.8192	126.3994	86.594
135.2764	147.4693	87.6946
147.3177	105.7155	89.1259
152.7607	112.9546	87.5582
143.278	140.3393	87.7094
151.3895	107.8396	88.6626
135.5419	124.284	85.6711
139.7169	78.9556	88.3157
150.9927	83.4129	87.4391
145.2952	123.4715	86.0678
149.8274	151.0518	87.3802
151.9539	104.9244	86.2922
145.4105	104.2494	86.5671
138.4168	107.1134	87.932
146.9275	88.2611	87.8335
152.1495	110.2963	87.0348
154.6278	133.2008	87.3742
143.8424	94.7248	87.6893
152.3396	139.2593	88.5483
156.5015	108.2951	88.4118
157.4618	113.6713	85.9918
139.5731	113.7094	87.0826
151.9075	132.5706	88.1695
152.1093	147.2661	87.2377
144.6688	101.3824	86.3536
141.4599	131.0451	87.4337
149.8311	98.2115	88.0831
141.1565	145.0151	86.8831
151.8424	134.7171	86.6102
145.4789	141.8468	87.653
145.9956	165.9607	87.3741
155.7904	168.7459	86.8296
142.0204	84.6622	86.9153
156.3021	120.438	87.6743
151.3484	120.5167	88.0262
148.1317	108.0177	87.8952
145.0899	154.84	86.92

TABLE 2

yield draws	crude oil price draws	corn acres draws
139.2933	97.7769	87.9096
153.4879	166.7979	86.8701
145.1893	231.7618	87.2552
147.0058	139.6723	85.7791
150.667	100.5071	86.8748
147.3853	96.7323	87.3008
148.071	146.2256	87.1487
146.3889	96.216	88.349
153.5682	125.8257	87.2027
147.8641	83.2664	87.6044
154.0032	156.1308	87.9136
148.6612	117.5	87.0383
144.2055	119.0385	87.9178
147.0791	128.5288	86.9334
146.6832	138.1092	87.5748
144.4342	109.6524	87.6415
147.2819	142.9233	88.0936
145.1623	109.1702	87.0908
141.4162	176.3231	87.3357
144.0531	134.0357	87.8737
148.2518	130.7546	85.2388
146.2887	71.3458	88.0588
148.4727	179.7034	87.216
146.3847	179.2161	88.0982
151.2043	96.9746	88.1803
144.3797	107.767	86.1255
134.1981	92.7468	85.812
151.0663	150.5593	85.6536
147.814	95.0327	87.9451
143.6827	170.5213	87.0657
153.6486	128.0847	86.6843
148.2154	113.6448	86.1833
148.9523	144.5845	87.5082

TABLE 2

yield draws	crude oil price draws	corn acres draws
154.983	128.1956	87.5983
153.789	149.3452	87.4082
151.9295	85.8726	85.9022
152.4272	159.354	86.4574
149.7803	134.2462	88.3377
143.3843	108.9103	87.1798
139.2288	170.4465	86.8955
153.5437	174.0728	87.4849
151.9356	135.8788	87.4296
145.1429	139.5772	88.6283
155.5501	143.1082	86.0114
154.2464	173.3538	87.1587
142.9881	189.2301	86.9935
150.0368	111.6461	86.5388
142.8926	84.4054	86.3542
141.2781	109.5096	87.175
147.9069	106.6737	86.1648
144.9396	120.392	87.6474
153.4371	89.7166	87.2667
148.5198	150.5557	87.0919
156.6002	86.1606	87.9714
143.4461	104.8839	87.6306
138.5994	148.4978	86.6955
151.6181	93.7466	87.5281
149.0445	80.7419	89.0979
138.3663	124.0922	87.168
152.6395	154.7789	86.9009
144.8951	75.9991	86.5277
141.8833	133.2211	88.0521
152.9902	111.0079	87.4056
150.9446	146.0117	87.1018
158.8906	109.4319	88.2468
138.052	82.5137	88.3043
138.8402	164.9043	87.9209
137.9838	114.2665	86.7903
135.0128	164.4532	86.5123
151.1134	99.0098	86.4143
150.9599	159.496	86.6698
158.3586	119.3912	88.6421
154.1542	109.9006	87.3879
148.081	109.3661	87.5029
141.8173	127.9807	87.5957
154.4131	101.9826	87.2721
141.37	129.897	86.9793
150.1105	77.6192	86.4683
153.3046	110.8052	86.5941
136.3876	116.0134	89.0039
155.9452	111.4736	87.4705
153.0581	157.8629	87.2036
142.399	158.0368	87.5172
150.7108	145.0312	86.3429
143.7038	121.9366	87.5385
155.0692	94.0385	86.4955
140.3602	132.3493	88.1088
138.8607	144.825	86.92
149.9212	142.0528	87.6947
149.6739	99.3171	87.3412
149.6465	141.6696	87.844
147.4892	162.9755	87.7909
148.7127	100.2528	87.8277
141.0132	93.4385	88.2816
138.2625	155.8387	87.1703
158.4731	192.2717	86.9334
148.0135	125.0056	87.29795

TABLE 2

yield draws	crude oil price draws	corn acres draws	96g mandate	96g mandate													Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
				Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol plant supply	Ethanol plant supply									
149.3976	153.238	87.0669		7.1206	2.8312	3.4825	12054.91	4957.196	1320.884	1817.45	4724.379	833	12992.01	284.0473	0.9997	112315.3	141491.4	13276.05	128215.3	137217.8	3.4214			
150.9763	134.3386	88.7765		5.7875	2.6536	3.2204	12186.37	5246.042	1349.573	2070.571	4266.005	852.1763	11731.52	283.6377	1	114526.1	142441.3	12015.15	130426.1	138573.6	3.1726			
143.4316	98.2405	87.4119		5.7884	2.3314	2.6203	11237.42	5245.856	1349.555	2036.773	3351.179	852.0988	10993.634	447.405	0.7612	119317.1	144758.2	9541.039	135217.1	141686.9	2.6013			
154.0182	87.8167	88.4692		4.6774	2.0718	2.3623	12350.3	5486.566	1373.463	2220.447	3915.465	952.3547	10761.03	281.8254	0.9787	119720.5	146663.4	11042.85	135620.5	143108.7	2.3404			
155.6236	130.9441	87.9271		4.6558	2.6355	3.1935	12414.2	5491.24	1373.927	2256.731	3936.006	954.3014	10824.02	283.6912	1	115264.7	142272.5	11107.71	131164.7	138696.9	3.15			
144.0749	134.3943	86.8879		6.8877	2.6706	3.2453	11517.93	5007.66	1325.896	1911.544	4037.83	833	11055.89	283.7784	0.8997	114837.7	142077.4	11339.67	130737.7	138427.2	3.1994			
157.9638	107.4119	88.03		3.5783	2.3247	2.7352	12805.52	5724.696	1397.114	2007.285	4222.892	1051.536	11612.96	282.5751	1	117174.3	144969.8	11895.53	133074.3	141140.6	2.7015			
148.4493	142.1046	87.0739		6.7808	2.7592	3.3761	11713.67	5030.83	1328.198	2100.265	4019.381	833	11053.3	284.0721	1	114146.1	141383.5	11337.37	130046.1	137774	3.3263			
140.9131	163.9635	88.7388		8.06	3.0048	3.7382	11105.31	4753.661	1300.668	1902.915	3913.065	833	10717.74	284.9331	0.9056	112445.5	139348.2	11002.67	128345.5	135806.4	3.6803			
151.3027	115.6253	86.7323		6.0523	2.4492	2.9188	11684.29	5188.662	1343.874	2005.162	3911.594	833	10734.71	283.0828	0.944	116781.7	143699.5	11017.79	132681.7	140152.9	2.8828			
144.9954	122.0301	87.4763		6.4537	2.5462	3.0617	11414.05	5101.692	1335.236	2090.295	3651.823	833	9996.152	283.4933	0.8947	116509.4	142689	10279.65	132409.4	139380	3.0246			
139.5499	108.9955	87.0647		6.1205	2.4521	2.8322	10910.13	5173.883	1342.406	1766.099	3392.745	833	9287.492	403.1332	0.8957	118096.8	143687.5	9690.625	133996.8	140568	2.8066			
138.3716	151.9983	87.6467		7.2761	2.8475	3.5064	11063.49	4923.514	1317.539	1270.973	4316.464	833	11869.01	284.2526	0.9946	112923	140976.2	12153.26	128823	137064.1	3.4496			
139.4801	95.5514	88.1259		5.4202	2.2375	2.5577	11086.67	5325.63	1357.478	1639.829	3476.413	885.3251	9469.107	346.8904	0.815	119486.1	145202.1	9815.997	135386.1	140204.2	2.5361			
144.6487	117.7522	87.1718		5.4605	2.4662	2.944	11595.24	5316.889	1356.61	1571.685	4066.372	881.6842	11182.52	283.0882	1	116352.3	143717.9	11465.61	132252.3	140027.1	2.9059			
139.1734	68.3946	85.5808		6.3748	2.4794	2.0391	10574.25	5118.793	1336.934	2099.92	2783.606	833	7496.827	1503.173	0.6642	124889.3	149789.3	9000	140789.3	144676.6	2.0656			
152.0039	87.376	87.7827		4.9737	2.1086	2.3832	11968.77	5420.199	1366.871	2341.673	3513.318	924.7129	9539.614	283.9053	0.7699	120386.5	146152.1	9865.519	136286.5	142976.4	2.3647			
158.1802	146.8442	87.9729		3.3502	2.812	3.4539	12864.94	5774.119	1402.023	2190.743	4023.931	1072.12	11065.81	284.2448	1	113725.6	140975.7	11350.06	129625.6	137322.1	3.4022			
145.0376	141.4828	86.9308		6.5434	2.7262	3.3274	11550.06	5082.268	1333.307	1501.326	4398.158	833	12094.94	283.8278	1	113721.2	142000	12378.76	129621.2	138015.3	3.275			
137.3051	99.4768	87.8318		6.2959	2.4639	2.6202	10739.88	5135.886	1338.632	1941.643	3088.714	833	8346.924	653.0762	0.7067	119440.2	144340.2	9000	135340.2	141432.5	2.648			
157.0183	134.6131	85.8616		6.5865	2.6443	3.2067	12194.25	5072.931	1332.739	2099.073	4454.862	833	12249.36	283.5425	0.9939	114258.5	142691.4	12532.9	130158.5	138657.1	3.1573			
148.1074	112.8532	87.4783		5.994	2.4081	2.8583	11513.05	5201.296	1345.129	1706.305	4024.778	833.5398	10996.44	282.9171	0.8628	116930.1	144109.4	11279.35	132830.1	140478.6	2.823			
140.1639	195.2319	87.5491		7.7438	3.2785	4.142	11281.23	4822.174	1307.473	1641.67	4274.914	833	11756.02	285.6761	1	109636.7	137578.4	12041.7	125536.7	133702.2	4.0664			
155.3134	126.5133	86.7112		5.1402	2.5509	3.0689	12644.2	5386.289	1363.503	2152.685	4429.135	910.5189	12180.12	283.2483	1	115032.5	143395.9	12463.37	130932.5	139384	3.0239			
147.6712	101.0302	86.6095		5.5482	2.2734	2.6595	11642	5297.884	1354.722	2071.209	3642.412	873.7685	9921.551	282.5824	0.8155	118698.5	144802.6	10204.13	134598.5	141517.9	2.6323			
154.7548	72.9442	86.6623		4.2569	1.9152	2.0641	12211.16	5577.672	1382.512	2443.616	3415.064	990.3004	9316.619	369.9407	0.8389	122199.1	147785.7	9686.56	138099.1	144667.6	2.0544			
145.8128	131.1625	87.5276		6.4707	2.6327	3.1894	11565.52	5098.018	1334.871	1878.903	4018.725	833	11051.4	283.6536	0.9993	115137.1	142372.2	11335.05	131037.1	138723.4	3.1451			
151.4643	147.6451	86.5202		5.8523	2.8204	3.4663	12019.52	5231.994	1348.178	2160.153	4030.875	846.3254	11084.91	284.27	1	113647.7	140916.9	11369.18	129547.7	137257.1	3.4141			
146.8922	132.9313	86.2498		6.8131	2.664	3.2356	11416.76	5023.83	1327.502	1961.546	3868.884	833	10614.71	283.8123	0.9385	115179.1	141977.6	10898.52	131079.1	138469.4	3.1917			
153.5234	129.9593	87.8296		5.4963	2.6093	3.155	12192.8	5309.139	1355.84	2088.689	4158.682	878.4562	11436.38	283.5291	1	115066.5	142686.4	11719.9	130966.5	138913.7	3.1102			
156.9089	142.5046	87.5687		6.9085	2.7482	3.3599	12228.33	5003.166	1325.45	2420.239	4244.48	833	11671.76	283.9548	0.9971	113826.6	141682.3	11955.72	129726.6	137833.8	3.3083			
144.6961	127.2633	87.2995		4.8375	2.6073	3.152	11337.93	5451.864	1370.016	1490.242	3685.909	937.9015	10136.26	283.6822	1	115937.3	142257.3	10419.94	131837.3	138903.1	3.1121			
153.7661	128.4629	86.8128		5.1823	2.5978	3.138	12163.94	5377.162	1362.596	2054.246	4061.144	906.788	11168.15	283.524	1	115333.1	142684.8	11451.67	131233.1	138998.5	3.0946			
153.5561	102.5235	86.6377		5.411	2.2773	2.6653	11973.41	5327.627	1357.676	2086.744	3913.201	886.1568	10750.69	282.5094	0.9687	118117.6	145050.8	11033.2	134017.6	141499.2	2.6357			
153.8637	112.6884	87.3043		5.7261	2.3857	2.8252	11948.47	5259.345	1350.894	1733.048	4345.47	857.7172	11947.06	282.7382	0.9894	116476.1	144605.9	12229.8	132376.1	140669.1	2.7881			
140.5267	154.1908	87.3376		7.887	2.9212	3.6148	11016.43	4791.142	1304.391	2019.555	3666.339	833	9966.62	284.7606	0.7861	113589.2	139740.6	10251.38	129489.2	136440.7	3.564			
139.5279	146.07	87.3238		7.4337	2.836	3.4891	10748.11	4889.358	1314.146	1740.485	3569.125	833	9786.935	284.4978	0.9274	114374.5	140345.9	10071.43	130274.5	137103.9	3.4422			
147.2167	161.6265	87.9868		7.0778	2.9467	3.6526	11582.21	4966.474	1321.806	1709.953	4348.975	833	11959.69	284.5631	1	112090.5	140234.8	12244.25	127990.5	136293.4	3.591			
153.7958	87.5213	86.9924		4.543	2.055	2.3376	12183.26	5515.676	1376.354	1754.819	4169.934	964.4792	11466.87	281.7053	0.9976	119380.5	147029.1	11748.58	135280.5	143247.2	2.315			
142.4852	132.8787	87.5112		6.9925	2.6789	3.2575	11211.76	4984.958	1323.641	2010.343	3657.814	833	9966.696	283.944	0.8203	115488.3	141638.9	10250.64	131388.3	138339.2	3.2156			
148.9481	111.437	89.1041		5.6323	2.3911	2.8332	12013.92	5279.666	1352.913	2135.564	3977.597	866.1809	10938.37	282.8672	0.9997	117101.6	144222.9	11221.23	133001.6	140610.7	2.7988			
145.613	134.4663	87.1196		6.9243	2.6742	3.2507	11357.29	4999.733	1325.109	1796.963	4000.482	833	10939.82	283.8052	0.8777	114885.5	142009.1	11223.62	130785.5	138396.2	3.2051			
152.5807	121.2804	88.6289		5.4188	2.5329	3.0243	12131.79	5520.918	1376.875	2167.811	3697.528	966.6624	10168.2	283.4284	1	116499.6	142851.2	10451.63	132399.6	139486.9	3.005			
146.544	157.2633	88.1741		6.6684	2.9181	3.6104	11493.88	5055.19	1330.617	1754.246	4118.829	833	11326.78	284.5589	1	112726.4	140237.7	11611.34	128626.4	136500	3.5531			
152.8763	112.577	87.0478		5.5674	2.4076	2.8575	12011.58	5293.737	1354.31	2142.743	3946.748	872.0412	10853.56	282.9313	1	117028.5	144065	11136.49	132928.5	140480.2	2.8227			
147.7709	152.2561	87.0674		6.0474	2.8968	3.5789	11543.42	5189.736	1343.981	2105.242	3669.													

TABLE 2

yield draws	crude oil price draws	corn acres draws	9bgd mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
144.5259	150.5422	86.8177		5.4499	2.8373	3.4913	11462.41	5319.179	1356.837	1263.019	4238.738	882.638	11656.54	284.2483	1	113141.4	140982.2	11940.79	129041.4	137138.5	3.4359
151.3643	140.3242	87.722		6.3208	2.7306	3.3339	12018.52	5130.501	1338.097	2172.178	4142.748	833	11392.56	283.9333	1	114147.4	141723.9	11676.49	130047.4	137965.2	3.2842
137.4858	138.7261	87.7718		7.0593	2.7289	3.3313	10863.8	4970.482	1322.204	1425.131	3910.98	833	10723.7	284.0144	0.9262	114599.6	141507.3	11007.71	130499.6	137963.9	3.2844
157.9088	174.036	87.8696		5.3905	3.0535	3.8102	12707.91	5332.062	1358.117	2143.5	4584.226	888.0037	12606.63	284.8147	1	110837.9	139629.3	12891.44	126737.9	135479.6	3.7403
144.3311	133.5824	88.6395		6.6447	2.6618	3.2324	11786.64	5060.322	1331.127	2150.979	4009.217	833	11024.05	283.7536	0.9942	114927	142134.8	11307.8	130827	138494.8	3.187
150.4692	137.3594	87.4932		6.5085	2.6942	3.2802	12061.98	5089.819	1334.057	2221.984	4181.121	833	11498.08	283.8	1	114362.9	142044.8	11781.88	130262.9	138252.2	3.2315
149.2147	88.0786	86.8911		4.8303	2.0873	2.385	11876	5453.438	1370.172	2020.541	3691.291	938.5571	11005.46	281.9376	0.8969	120037	146324.4	10387.4	135937	142980.7	2.3639
148.1496	111.7586	86.3496		5.97	2.409	2.8595	11329.68	5206.509	1345.647	1780.08	3759.733	835.711	10290.97	282.9986	0.8937	117390	143864	10573.97	133290	140460.2	2.8264
156.8153	125.1213	87.2528		5.7618	2.5325	3.0418	12668.49	5251.619	1350.127	2354.407	4455.841	854.4991	12253.56	283.1801	1	115127.4	143564.1	12536.74	131027.4	139528.5	2.9973
141.4872	149.0355	87.575		7.3066	2.8292	3.4793	11397.43	4916.894	1316.881	1803.737	4124.919	833	11335.62	284.2652	0.9762	113414.6	140934.5	11619.89	129314.6	137194.1	3.4257
144.1895	104.7672	86.9868		6.2036	2.4644	2.7576	11475.38	5155.891	1340.619	2508.78	3235.093	833	8832.444	525.5631	0.8511	118693.4	143951.4	9358.008	134593.4	140939	2.7385
145.5094	114.4849	87.0839		6.4415	2.5172	2.9372	11352.08	5104.348	1335.5	2240.836	3436.393	833	9939.692	391.492	0.7833	117513.1	143144.3	9731.184	133413.1	140011.9	2.9087
151.9111	123.331	87.5112		4.3582	2.5249	3.0306	12352.73	5555.715	1380.331	1801.349	4232.176	981.1553	11638.49	283.2281	1	115592.2	143413.9	11921.71	131492.2	139576.3	2.9886
145.5125	87.9992	88.6169		4.741	2.0703	2.3601	11708.76	5472.791	1372.095	1507.287	4007.968	946.6176	10991.95	281.7992	0.9304	119577.9	146751.6	11273.75	135477.9	143122.6	2.3379
140.5736	105.9366	86.3352		5.9242	2.3856	2.7689	10715.46	5216.425	1346.631	1449.853	3460.708	839.841	9447.748	356.9801	0.8499	118367.1	144071.9	9804.728	134267.1	140915.7	2.7428
154.5385	136.8717	86.7884		6.6716	2.6708	3.2457	12220.09	5054.485	1330.547	2154.144	4445.916	833	12224.97	283.6314	0.9946	114067.9	142476.5	12508.6	129967.9	138449.9	3.1953
141.1434	116.9603	87.8597		6.059	2.4731	2.954	11229.67	5187.219	1343.731	1674.233	3789.485	833	10415.62	283.199	0.981	116805.2	143404	10698.82	132705.2	139960.1	2.9182
147.5899	162.9124	87.4625		6.1548	2.9792	3.7005	11654.76	5166.457	1341.668	1818.973	4092.664	833	11254.83	284.7705	1	112295.9	139735.5	11539.6	128195.9	136020.9	3.641
137.7406	124.4174	87.4588		6.7673	2.6332	3.1211	11121.41	5033.761	1328.489	2084.808	3439.355	833	9411.646	374.968	0.8892	116501.1	142187.7	9786.614	132401.1	139037.4	3.0875
143.2957	142.7005	87.2719		7.2362	2.7944	3.4278	11488.83	4932.146	1318.396	2390.643	3612.643	833	9919.959	284.3396	0.9566	114613.3	140717.6	10204.3	130513.3	137432.8	3.3819
143.2929	122.7861	86.3155		6.4837	2.5616	3.0846	10906.08	5095.19	1334.59	1691.78	3549.524	833	9727.747	283.5777	0.9166	116564.9	142476.2	10011.32	132464.9	139253.6	3.0478
141.9797	110.7879	86.813		5.9813	2.4168	2.8597	11400.09	5204.049	1345.402	2086.425	3527.524	834.6862	9663.958	297.9766	0.9098	117790.9	143652.8	9961.935	133690.9	140446	2.829
151.3739	107.5761	87.0107		5.7258	2.3413	2.7597	12067.07	5259.413	1350.901	2211.005	3986.009	857.7456	10913.44	282.7047	0.8988	117508.3	144604.4	11196.15	133408.3	141000.4	2.7273
136.1197	117.0685	86.6172		7.291	2.7354	3.0091	10914.82	4920.28	1317.217	2373.306	3069.02	833	8278.049	721.951	0.6829	117598.4	142498.4	9000	133498.4	139558.6	2.9918
134.8637	129.708	87.7073		7.1611	2.7176	3.2188	10747.01	4948.429	1320.013	1820.513	3423.059	833	9302.264	410.6012	0.7815	116022.7	141635.6	9712.865	131922.7	138509	3.1844
147.0606	102.9345	87.8629		5.1514	2.2599	2.6398	11819.69	5383.855	1363.261	1436.382	4324.612	909.5758	11892.68	282.3344	1	117494.4	145569.4	12175.02	133394.4	141650.3	2.608
138.0171	111.8329	87.678		6.599	2.5663	2.8969	10720.63	5070.211	1332.109	1847.058	3236.255	833	8811.549	540.5055	0.8093	117952.2	143204.3	9352.054	133852.2	140193.9	2.8753
142.6514	98.7451	86.4669		5.6579	2.3025	2.6261	11143.58	5274.123	1352.362	1821.451	3429.773	863.8722	9336.541	383.3713	0.8063	119179	144798.9	9719.912	135079	141670.1	2.6044
156.7515	99.5053	87.3241		4.918	2.2306	2.5964	12427.15	5434.443	1368.286	2276.846	4015.289	930.6457	11042.05	282.3247	1	118289.5	145513.9	11324.37	134189.5	141868.6	2.568
154.6372	132.2082	87.0574		4.1005	2.6529	3.2192	12239.57	5611.563	1385.878	1936.796	3898.92	1004.416	10722.03	283.7618	1	115195.5	142101.3	11005.79	131095.5	138558.6	3.1753
144.0936	104.1055	86.7629		5.9158	2.3668	2.7333	11465.13	5218.245	1346.812	2190.874	3466.598	840.5992	9406.6	367.444	0.7609	118575.3	144249.4	9774.044	134475.3	141103.1	2.7084
142.5699	100.0141	86.6125		5.5537	2.2686	2.6455	11269.03	5296.699	1354.605	1778.334	3564.118	873.2753	9682.856	291.7659	0.7775	118923.8	144798.4	9974.621	134823.8	141587.6	2.6195
139.83	165.9821	87.0748		6.7354	3.0445	3.7967	11077.88	5040.66	1329.174	1823.659	3649.391	833	10035.83	285.1659	1	112578.4	138799.4	10320.99	128478.4	135477.1	3.7408
154.0091	169.1177	88.4499		4.7585	3.0443	3.7965	12509.58	5468.986	1371.717	2249.137	4072.705	945.0327	11199.95	284.9931	1	111823.7	139208.7	11484.94	127723.7	135511.7	3.7344
151.7941	137.409	87.96		5.0637	2.6907	3.275	12226.84	5402.871	1365.15	1897.763	4241.564	917.4959	11664.31	283.7673	1	114281.1	142129.2	11948.08	130181.1	138283.1	3.2259
153.7616	98.4204	88.3698		4.5644	2.2046	2.5582	12280.55	5511.054	1375.895	1804.711	4224.338	962.5541	11616.93	282.1816	1	118110.2	145909.3	11899.11	134010.2	142079	2.5294
148.7717	130.466	87.3175		6.6329	2.6153	3.1639	11689.54	5062.868	1331.38	1893.798	4166.497	833	11434.56	283.5491	0.9446	115020.4	142638.6	11718.11	130920.4	138866.5	3.1188
148.3052	135.2786	87.6513		6.9202	2.6963	3.2832	11819.03	4998.454	1324.982	2462.779	3797.817	833	10418.51	283.9451	0.9361	115054.9	141657.3	10702.45	130954.9	138212.2	3.2389
142.0122	154.716	87.5326		7.88	2.9333	3.6326	11022.48	4792.668	1304.543	2125.756	3564.509	833	9726.253	284.8352	0.842	113651.5	139562.6	10011.09	129551.5	136340	3.5824
150.6393	139.7137	87.6235		5.0589	2.7246	3.325	11982.88	5403.907	1365.253	1764.054	4129.743	917.9272	11356.8	283.9181	1	114218.2	141758.9	11640.71	130118.2	138011.7	3.2757
147.6786	93.0475	87.3035		5.0091	2.1541	2.4835	11859.88	5414.695	1366.324	1984.31	3770.134	922.4203	10350.27	282.1385	0.9519	119349.7	145882.1	10632.41	135249.7	142459.5	2.4595
158.3773	87.8361	88.2037		4.8402	2.0769	2.3698	12562.61	5451.281	1369.958	2554.016	3847.694	937.6584	10488.5	281.8676	0.8266	119862.3	146532.7	10770.37	135762.3	140605.7	2.3483
141.8932	106.1242	86.4721		6.0888	2.4133	2.7758	11195.17	5180.75	1343.088	2012.01	3424.321	833	9284.951	402.0052	0.7507	118400.2	143987.2	9686.956	134300.2	140868.9	2.7514
142.9509	156.5496	85.8512		7.3534	2.9094	3.5976	10990.43	4906.772	1315.876	1398.764	4134.017	833	11368.54	284.5245	0.9999	112766.9	140320	11653.07	128666.9	136568.9	3.5404
156.0865	148.5365	88.321		5.9251	2.8241	3.4717	12326.07	5216.232	1346.612	2404.154	4117.312	839.7605	11322.61	284.2501	1	113463.2	140970.1	11606.86	129363.2	137233.9	3.4184
150.3366	121.3781	87.2078		4.3611	2.525	3.0307	12296.25	5555.093	1380.269	2133.283	3844.705	980.8962	10572.94	283.3542	1	116294.4	143050.7	10856.29			

TABLE 2

yield draws	crude oil price draws	corn acres draws	9bgb mandate	9bgb mandate												Total fuel demand	Fuel price				
				Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running			Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply
150.4495	106.4112	87.2265		5.8635	2.3589	2.7741	11576.84	5229.568	1347.937	2200.981	3551.035	845.3149	9662.416	297.936	0.7999	118247.4	144107.8	9960.352	134147.4	140901.5	2.7454
145.0338	226.0405	85.9416		5.8911	3.5791	4.5851	11283.87	5223.592	1347.343	1584.362	3883.749	842.826	10680.31	286.8499	1	107984.5	134851.7	10967.16	123884.5	131321.4	4.5033
146.3029	108.2261	87.5501		5.7598	2.3719	2.8048	11518.08	5252.05	1350.17	2073.501	3585.684	854.6789	9846.622	282.9229	0.9582	117974.9	144004.5	10129.54	133874.9	140743.8	2.7744
146.1797	197.2865	87.4851		7.1875	3.3107	4.1894	11455.04	4942.716	1319.446	1843.731	4114.148	833	11313.91	285.8534	1	109671.1	137170.9	11599.76	125571.1	133436.9	4.1151
151.31	110.7012	89.0371		5.0695	2.3766	2.8117	12308.39	5401.602	1365.024	2158.816	4063.985	916.9671	11175.96	282.793	1	117058.1	144416.8	11458.75	132958.1	140728.2	2.7772
148.8062	87.1803	87.644		5.1568	2.1766	2.3881	11844.05	5382.702	1363.147	2486.458	3300.646	909.955	9028.935	451.9545	0.8832	120594.6	145975.5	9480.89	136494.6	142923.6	2.3744
150.043	136.0381	88.2708		6.1213	2.7087	3.3014	11829.3	5173.713	1342.389	2341.62	3736.583	833	10275.6	284.0047	1	115051.9	141511.5	10559.61	130951.9	138112.4	3.2572
150.8809	106.5683	86.7623		5.5588	2.323	2.7327	11961.78	5295.586	1354.494	1976.709	4060.18	872.8117	11156.69	282.6182	0.9737	117490.1	144829.4	11439.3	133390.1	141147.1	2.7004
159.217	168.7731	88.4943		6.1839	2.9966	3.7264	12595.19	5160.157	1341.043	2212.388	4646.601	833	12778.15	284.607	1	111168.3	140131.1	13062.76	127068.3	135926.2	3.6584
150.8427	89.089	87.607		4.7645	2.09	2.3891	12204.86	5467.687	1371.588	2098.341	3920.751	944.4916	10770.32	281.8848	0.9661	119572.1	146524.3	11052.2	135472.1	142966.6	2.3665
148.1299	114.361	84.2972		6.3053	2.5096	2.9341	11403.55	5133.855	1338.43	2273.881	3422.386	833	9377.233	380.6347	0.9124	117514.1	143172	9757.868	133414.1	140030.9	2.9052
152.6255	142.3058	88.3246		7.1217	2.7452	3.3555	12194.09	4956.964	1320.861	2412.285	4268.984	833	11703.23	283.9408	0.9227	1138269	141716.7	11987.17	129729.6	137858.1	3.3039
140.9667	119.1603	86.6086		6.2965	2.5086	3.0063	11106.66	5135.765	1338.62	1723.68	3673.598	833	10068	283.3584	0.917	116756.6	143008	10351.36	132656.6	139675.9	2.9703
144.2828	140.1904	86.7141		6.9974	2.7299	3.3328	11553.59	4983.894	1323.536	1874.886	4136.272	833	11360.88	283.935	0.963	114173.9	141718.7	11644.82	130073.9	13970.3	3.2833
155.4112	117.0599	87.5478		6.2921	2.4822	2.9674	12127.87	5136.704	1338.713	2724.848	3692.606	833	10059.84	283.2704	0.8178	116969.2	143212.3	10343.11	132869.2	139882.8	2.9323
152.2423	76.8086	87.6268		4.5742	1.9905	2.1396	12116.96	5508.932	1375.684	2501.998	3366.679	961.6701	9119.628	417.2643	0.7374	121888.8	147325.7	9536.892	137788.8	144255.8	2.1299
143.6931	113.7101	87.6318		6.1978	2.4542	2.9158	11514.01	5157.139	1340.743	2229.901	3551.227	833	9669.417	296.7186	0.8097	117489.7	143355.8	9966.136	133389.7	140147.7	2.8837
149.9461	103.8798	86.8928		5.4541	2.2904	2.6846	12090.88	5318.288	1356.749	2126.375	4005.205	882.2668	11003.99	282.5266	0.9699	117846.5	145033	11286.52	133746.5	141399.9	2.654
136.8134	146.9344	88.1949		7.6459	2.8762	3.5096	10901.29	4843.379	1309.579	2017.332	3496	833	9557.204	335.9543	0.8723	114372.1	140165.3	9893.158	130272.1	136980.7	3.4649
140.7075	135.0393	86.7554		8.1025	2.9753	3.3363	10813.4	4744.452	1299.754	2496.449	3037.743	833	8242.105	757.8949	0.7595	115828.4	140728.4	9000	131728.4	137807.1	3.3132
149.4961	73.7067	87.1997		4.5935	1.9981	2.091	11828.42	5504.746	1375.268	2358.558	3227.616	959.9268	8754.685	496.0997	0.7555	122326.7	147477.5	9250.785	138226.7	144499.7	2.0852
150.7039	90.689	87.7684		5.1051	2.1615	2.4548	11872.96	5393.892	1364.258	2322.507	3476.55	913.7561	9509.049	334.712	0.8813	120018.3	145762.1	9843.761	135918.3	142593.4	2.435
144.0819	110.7844	88.1576		6.0817	2.4283	2.8611	11206.46	5182.291	1343.241	1931.298	3514.635	833	9590.642	318.6421	0.8428	117814.4	143623.7	9909.284	133714.4	140433.9	2.8312
148.6723	104.0308	87.2144		5.7056	2.3155	2.7215	11602.25	5263.781	1351.335	2102.965	3622.61	859.5646	9860.089	282.7308	0.8042	118409.1	144452	10142.82	134309.1	141187	2.693
135.1752	134.5529	86.4333		7.6081	2.8445	3.3126	10291.3	4851.573	1310.393	1615.813	3278.525	833	8915.452	534.1052	0.791	115673.9	141023.4	9449.557	131573.9	137981.6	3.2812
143.301	118.4673	87.7392		6.1002	2.4702	2.9499	11477.17	5178.295	1342.844	1567.772	4153.258	833	11405.85	283.0757	0.9595	116173.4	143762.3	11688.93	132073.4	139999.6	2.9109
145.4312	116.6619	87.101		6.1861	2.4637	2.9401	11441.27	5159.687	1340.996	1800.301	3905.29	833	10673.91	283.1379	0.8689	116708.5	143565.5	10957.04	132608.5	140038.5	2.9038
151.9867	109.8505	85.7286		5.6786	2.3799	2.8167	11672.29	5269.645	1351.917	1972.122	3814.595	862.007	10488.96	282.8795	0.9944	117486.7	144158.5	10771.84	133386.7	140691	2.784
142.5736	115.3948	87.5564		6.2538	2.4662	2.9438	11062.32	5455.019	1339.539	1732.444	3610.314	833	9817.275	283.2444	0.7904	117254.9	143255.5	10100.52	133154.9	140004.1	2.9101
158.5725	155.5131	86.2033		4.8304	2.9138	3.604	11969.26	5143.42	1370.171	1882.093	3923.024	938.5496	10788.32	284.6203	1	113111.4	140084.4	11072.94	129011.4	136520	3.5494
145.7426	94.2662	86.7669		5.4881	2.2457	2.5343	11471.01	5310.903	1356.015	2097.298	3425.598	879.1912	9285.516	393.7578	0.7465	119693.2	145272.5	9679.274	135593.2	142156.7	2.5151
141.4585	109.9175	87.8481		6.1053	2.4582	2.8494	11250.7	5177.188	1342.734	2094.186	3401.589	833	9328.047	392.2923	0.9285	117987.6	143607.9	9720.339	133887.6	140479	2.823
144.3886	166.7663	85.3163		7.2228	3.0282	3.7727	11056.69	4935.068	1318.686	1597.867	3970.074	833	10917.71	284.9815	1	112132.7	139235.4	11202.69	128032.7	135629.3	3.7128
140.0267	106.1881	88.4699		5.6213	2.3344	2.7496	11364.16	5282.059	1353.15	1690.931	3768.845	867.1776	10351.56	282.7422	0.9627	117934.3	144468.6	10634.3	133834.3	141045.5	2.719
154.6577	139.7812	86.9903		3.9407	2.7395	3.347	12399.68	5646.181	1389.316	2022.16	3921.184	1018.835	10783.26	284.042	1	114477.3	141444.6	11067.3	130377.3	137882.1	3.2995
144.4682	124.9247	86.981		6.4119	2.5522	3.0707	11488.73	5110.753	1336.136	1691.225	4115.619	833	11294.93	283.3584	0.9446	115606	143084.3	11578.29	131506	139357.2	3.0288
149.079	156.3966	86.1215		6.4643	2.9137	3.6038	11552.09	5099.412	1335.009	1828.876	4053.795	833	11147.94	284.5694	1	112877.7	142012.2	11432.51	12877.7	136530.1	3.5475
148.653	118.6719	88.2598		6.1075	2.478	2.9614	11874.76	5176.702	1342.686	2055.081	4065.288	833	11168.73	283.1287	0.9691	116269	143620.8	11451.86	132169	139934.5	2.9229
145.1694	141.361	86.6204		6.5623	2.7272	3.329	11411.49	5078.174	1332.9	1402.171	4363.243	833	11998.92	283.8436	1	113776.2	141958.9	12282.76	129676.2	138005.1	3.2769
148.1897	117.0084	87.672		5.6707	2.4431	2.9099	11919.93	5271.34	1352.086	1737.154	4294.642	862.713	11810.27	282.9407	1	116118	144111.2	12093.21	132018	140218.4	2.8708
142.5043	137.1187	86.598		7.143	2.7231	3.3227	11201.38	4952.354	1320.403	1952.252	3741.367	833	10200.36	284.0629	0.8292	114988.1	141372.6	10484.43	130888.1	137997.6	3.2783
136.3782	105.1769	87.1369		6.618	2.5592	2.777	10796.29	5066.093	1331.7	2095.048	3068.452	833	8315.242	684.7582	0.743	118838.5	143738.5	9000	134738.5	140803.8	2.7633
140.9001	97.0079	87.3725		6.0823	2.418	2.6082	10996.53	5182.159	1343.228	2150.464	3085.675	833	8389.67	632.2611	0.7887	119696.2	144618.1	9021.931	135596.2	141174	2.5963
156.6287	144.73	87.3357		5.9662	2.7709	3.3933	12351.74	5207.329	1345.728	2284.448	4276.187	836.0527	11759.52	284.0172	1	113592.5	141536.1	12043.53	129492.5	137659.3	3.3404
150.4556	154.3258	86.9414		6.702	2.8689	3.538	12026.48	5054.784	1330.577	2041.796	4364.321	833	12001.89	284.3042	1	112669.1	140855.3	12286.19	128569.1	136900.4	3.4796
135.2295	188.2843	87.6311		8.7442	3.2152	4.0486	10869.53	4605.433	1285.946	1466.438	4276.712	833	11733.81	285.4726	0.9388	110144.8	1				

TABLE 2

yield draws	crude oil price draws	corn acres draws	9gbs mandate	9gbs mandate													Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	
				Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply					Total fuel volume
148.2148	152.7066	88.0973		6.0101	2.8323	3.4841	11972.36	5197.808	1344.782	1563.474	4631.292	833	12736.06	284.0855	1	112474.2	141394.3	13020.15	128374.2	137203.1	3.424
147.4466	148.7819	87.6672		6.7215	2.8036	3.4416	11705.25	5043.684	1329.474	1653.125	4443.966	833	12220.91	284.0622	1	113035.4	141440.3	12504.97	128935.4	137415	3.3852
150.3208	94.1778	86.5147		5.356	2.2171	2.529	11767.58	5339.524	1358.858	2294.482	3481.606	891.1119	9473.867	345.0777	0.8004	119637.5	145356.5	9818.945	135537.5	142195.8	2.5079
158.6022	161.7914	88.7319		4.6978	2.93	3.6281	12732.62	5482.137	1373.023	1930.708	4594.246	950.5101	12634.18	284.4135	1	111780.6	140599.2	12918.59	127680.6	136440.7	3.5639
145.4276	74.7875	86.9166		5.41	2.2308	2.1438	11143.24	5327.83	1357.697	2183.783	2985.691	886.2412	8119.705	880.2953	0.792	122851.8	147751.8	9000	138751.8	144151.3	2.1491
154.4098	98.8962	86.5018		5.2635	2.2249	2.588	12159.41	5359.571	1360.849	2163.561	3973.967	899.4613	10907.33	282.3195	0.9469	118423.7	145513.4	11189.65	134323.7	141911.4	2.5601
152.3944	96.0972	87.302		4.9987	2.1809	2.5232	11878.97	5416.958	1366.549	1700.165	4069.932	923.363	11191.02	282.1458	0.9942	118579.2	145952.4	11473.16	134479.2	142259.1	2.4963
153.5183	119.2177	87.2		5.7753	2.4849	2.9715	12059.73	5248.689	1349.836	2145.111	4060.818	853.2788	11167.25	283.1515	1	116216.4	143566.8	11450.4	132116.4	139881	2.9327
136.0391	97.5975	88.3059		6.2792	2.4514	2.6235	10881.41	5139.502	1338.991	2074.63	3093.285	833	8322.909	677.091	0.6527	119686.9	144586.9	9000	135586.9	141624.1	2.6128
144.5054	132.6676	87.6563		6.9411	2.671	3.2459	11238.29	4996.104	1324.748	1949.866	3732.576	833	10188.8	283.8896	0.8482	115403.6	141776.3	10472.69	131303.6	138405.2	3.2035
155.1768	74.4032	88.016		4.5592	1.997	2.1055	12424.47	5512.17	1376.006	2921.544	3249.73	963.0187	8854.095	475.0084	0.8191	122200.4	147429.5	9329.103	138100.4	144426.5	2.0986
144.9554	113.6295	88.0888		6.4607	2.5184	2.9224	11707.51	5100.176	1335.085	2623.869	3413.383	833	9261.82	413.3562	0.7603	117624.9	143200.1	9675.176	133524.9	140085.6	2.8951
149.1907	74.5391	85.7267		4.7007	2.0276	2.1123	11570.08	5481.523	1372.962	2180.594	3182.747	950.2544	8631.366	525.529	0.7529	122271.3	147328.2	9156.995	138171.3	144380.6	2.107
148.3729	110.0979	87.1051		5.8784	2.3832	2.8215	11556.87	5226.338	1347.616	1906.069	3830.883	843.9697	10486.01	282.8908	0.8942	117462.8	144131.7	10768.9	133362.8	140665.2	2.7888
146.5328	137.2781	86.272		7.1831	2.7383	3.3431	11303.42	4943.668	1319.54	2248.412	3556.8	833	9707.185	286.8788	0.8452	115200.9	141095	9994.064	131100.9	137877.9	3.3002
144.9592	112.2366	86.2249		5.6886	2.4131	2.8655	11534	5267.48	1351.702	1872.972	3778.74	861.1052	10391.53	283.001	0.9999	117291.6	143866.1	10674.53	133191.6	140430	2.8319
145.2403	148.632	86.2931		7.4308	2.8266	3.4755	11154.74	4889.987	1314.209	1602.804	4112.742	833	11264.89	284.2662	0.906	113481.2	140930.3	11549.16	129381.2	137212.7	3.4223
149.0726	125.6679	86.8743		6.4729	2.5687	3.0951	11781.66	5097.541	1334.823	2117.054	3997.239	833	10969.02	283.452	0.9426	115691.6	142844.1	11252.47	131591.6	139221.9	3.0536
148.4016	99.4032	87.166		5.5263	2.2928	2.6372	11698.14	5302.629	1355.193	2311.186	3451.384	875.745	9463.75	349.9188	0.9267	119064	144777.6	9813.669	134964	141618.6	2.6138
143.0579	175.0736	87.5418		7.6955	3.0662	3.829	11644.96	4832.638	1308.513	1717.948	4550.858	833	12514.86	284.8694	1	110798.3	139498	12799.73	126698.3	135377.8	3.759
159.1075	112.5785	87.0529		5.1968	2.408	2.858	12306.41	5374.026	1362.285	2321.71	3940.91	905.4819	10837.5	282.9343	1	117036.3	144056.8	11120.44	132936.3	140477.1	2.8233
142.0361	145.5876	87.6589		7.3466	2.8267	3.4755	11029.28	4908.236	1316.021	1951.146	3618.878	833	9937.541	284.4461	0.9577	114348.6	140470.6	10221.99	130248.6	137180.2	3.4283
153.8639	118.6565	87.7933		5.695	2.4805	2.965	12476.35	5266.087	1351.564	2578.098	4018.076	860.5251	11049.71	283.1505	1	116328.5	143561.3	11332.86	132228.5	139913.3	2.9268
147.4593	162.7529	85.4749		5.1629	2.9939	3.7221	11410.7	5381.37	1363.014	1480.818	3874.958	908.5407	10656.13	284.9057	1	112570.9	139411.9	10941.04	128470.9	135890	3.665
152.1354	83.4632	87.8546		4.8241	2.0701	2.3005	12268.16	5454.786	1370.306	2653.286	3448.668	939.1182	9391.668	360.0793	0.8121	120897	146548.7	9751.747	136797	143409.6	2.2852
153.6468	106.7113	87.8588		5.7038	2.3329	2.7474	12083.4	5264.171	1351.374	2272.801	3933.325	859.7271	10764.26	282.693	0.8907	117672.5	144619.5	11046.95	133572.5	141063.4	2.7157
144.8288	123.6417	88.057		5.8257	2.5392	3.0516	11796.01	5237.77	1348.751	1894.005	4064.751	848.731	11178.07	283.3296	1	115784.3	143145.7	11461.4	131684.3	139456.3	3.0106
139.3582	123.3361	87.48		7.7656	2.8656	3.1317	10661.64	4817.458	1307.005	2266.098	3036.081	833	8185.876	814.1242	0.6778	117044.8	141944.8	9000	132944.8	138888.1	3.1149
147.6673	131.2784	87.0398		5.9964	2.6339	3.1913	11577.98	5200.779	1345.077	1776.411	4020.388	833.3246	11056.07	283.6572	1	115124.2	142363.9	11339.73	131024.2	138713.6	3.1469
146.9436	123.8812	86.3066		6.7408	2.5996	3.108	11183.15	5039.484	1329.057	2056.086	3523.518	833	9572.296	326.6738	0.7771	116506	142305	9898.97	132406	139118.5	3.0726
146.9777	88.3066	87.7062		5.29	2.1947	2.4126	11707.89	5353.829	1360.279	2373.275	3321.432	897.0699	9021.867	455.0621	0.7749	120466.2	145843.2	9476.929	136366.2	142792.5	2.3984
148.3414	120.1707	87.3938		6.2473	2.5192	3.022	11771.4	5146.427	1339.679	2351.544	3698.75	833	10162.27	283.3929	0.9705	116611.3	142956.9	10445.65	132511.3	139594.5	2.9853
146.1599	120.1588	87.8738		6.2971	2.4974	2.99	11434.26	5135.632	1338.607	1655.098	4069.924	833	11130.28	283.1871	0.8786	116142.9	143456.3	11413.47	132042.9	139782.3	2.9508
145.5947	94.4112	87.6058		5.5487	2.2639	2.5394	11555.16	5297.782	1354.712	2244.807	3382.13	873.7261	9174.274	422.6632	0.7562	119715.7	145212.6	9596.937	135615.7	142123.4	2.5212
154.5531	104.4566	87.552		4.9288	2.2937	2.6895	12252.03	5432.09	1368.052	2039.264	4080.96	929.6654	11222.64	282.5145	1	117675.7	145080.8	11505.16	133575.7	141377.3	2.6581
134.5151	122.2231	87.1948		7.7354	2.8493	3.111	10357.32	4823.988	1307.653	1941.131	3049.542	833	8190.504	809.4958	0.6314	117154.4	142054.4	9000	133054.4	138999.4	3.0944
144.045	147.5238	88.3088		7.4953	2.8495	3.509	11291.3	4876.012	1312.821	2256.022	3611.44	833	9898.064	284.5282	0.9178	114196.2	140278.8	10182.59	130096.2	137001	3.4611
148.745	111.5613	86.7612		5.7401	2.3705	2.8028	11950.52	5256.31	1350.593	1721.727	4363.434	856.4533	11986.35	282.6844	0.9661	116568.8	144737.8	12269.04	132468.8	140788.4	2.7662
144.3622	162.4355	86.9648		7.717	2.9709	3.6882	11575.55	4827.992	1308.051	2065.545	4138.965	833	11380.3	284.7249	0.9924	112279.6	139844.6	11665.02	128179.6	136089.6	3.6284
159.4145	144.7449	86.4318		4.4161	2.7919	3.4243	12601.45	5543.187	1379.086	2324.413	3976.826	975.9376	10936.28	284.1957	1	113967.5	141087.9	11220.47	129867	137476.1	3.374
150.4417	148.0823	87.593		5.4746	2.8292	3.4793	11709.17	5313.828	1356.306	1782.567	3974.064	880.4095	10928.68	284.3203	1	113680.8	140793.8	11213	129580.8	137184.3	3.4275
148.1718	103.0775	88.4916		5.5642	2.2888	2.6822	11822.21	5294.426	1354.379	2039.899	3859.288	872.3282	10549.28	282.5686	0.8707	118161.2	144893.1	10831.85	134061.2	141466.3	2.6528
145.7983	97.314	87.3451		5.4487	2.2527	2.629	11286.85	5319.439	1356.863	1688.85	3686.952	882.7667	10067.87	282.4976	0.8539	118763.7	145014.1	10350.37	134663.7	141682.3	2.6021
156.4633	116.2733	88.0869		4.8992	2.4325	2.8943	12411.79	5438.51	1368.69	1951.83	4318.419	932.3394	11875.67	282.8987	1	116157.8	144216.4	12158.57	132057.8	140302.5	2.8553
140.8108	152.7583	87.6876		5.4888	2.8838	3.5597	11305.75	5310.753	1356	1431.126	3926.743	879.1285	10798.55	284.5192	1	113339.2	140322.3	11083.07	129239.2	136754.6	3.5063
154.3805	137.7229	86.9288		5.3754	2.7029	3.2931	12321.91	5335.333	1358.442	2224.07	4112.703	889.3663	11309.91	283.8553							

TABLE 2

yield draws	crude oil price draws	corn acres draws	96kg mandate	96kg mandate													Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	
				Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply					Total fuel volume
149.7141	102.7544	87.6546		5.5191	2.2776	2.6657	11828.78	5304.203	1355.35	1908.031	3982.798	876.4004	10891.31	282.4958	0.8775	118021.8	145095.6	11173.8	133921.8	141498.8	2.6358
157.4683	129.3443	86.7973		6.2906	2.5897	3.1262	12355.1	5137.036	1338.746	2295.989	4348.328	833	11957.89	283.4013	0.9999	114876	143017.2	12241.29	130776	139076.8	3.0802
156.898	152.6069	87.3091		5.4589	2.8326	3.4845	12698.69	5317.232	1356.644	2128.139	4612.849	881.8269	12685.34	284.0933	1	112505.2	141374.7	12969.43	128405.2	137199.8	3.4247
142.721	151.8192	87.6969		7.4216	2.8349	3.4878	11273.69	4891.988	1314.407	3155.81	4476.485	833	12278.26	284.1559	0.9327	112753.9	141216.3	12562.41	128653.9	137172.5	3.4297
154.5368	124.4433	88.7972		4.8929	2.5247	3.0303	12547.55	5439.87	1368.825	1953.15	4450.797	932.9059	12239.67	283.1563	1	115197.6	143620.5	12522.82	131097.6	139589.4	2.9862
150.467	126.959	86.4542		5.7049	2.5723	3.1005	11710.31	5263.934	1351.35	1656.663	4176.739	859.8266	11486.03	283.4016	1	115322.6	142992	11769.44	131222.6	139203.4	3.057
146.4314	138.8076	88.5788		6.3686	2.7222	3.3215	11735.4	5120.144	1337.068	2031.878	4011.314	833	11031.12	283.9526	1	114449.9	141664.9	11315.07	130349.9	138022.6	3.2737
144.0692	128.5777	85.6596		6.7291	2.622	3.1737	10964.31	5042.029	1329.31	1634.153	3723.814	833	10189.31	283.7251	0.888	115787.3	142160.3	10473.03	131687.3	138789	3.133
147.7461	126.1893	86.4809		6.6852	2.5917	3.129	11372.98	5051.531	1330.254	1994.819	3761.372	833	10245.52	283.6165	0.8154	115987.8	142416.9	10529.14	131887.8	139027.6	3.0893
159.411	140.9894	87.5158		4.7123	2.7166	3.3134	12535.51	5479.007	1372.712	1876.108	4456.476	949.2062	12255.31	283.7761	1	113690.4	142129.5	12539.09	129590.4	138093.1	3.2607
147.4708	203.6516	87.539		6.3982	3.3858	4.3001	11419.62	5113.728	1336.431	1830.826	3903.631	833	10734.99	286.1975	1	109457.9	136379.1	11021.18	125357.9	132831.4	4.2262
144.892	152.4692	87.0281		7.4752	2.8667	3.5346	11294.87	4880.38	1313.254	1740.907	4125.326	833	11330.54	284.3893	0.9624	113125.2	140640.1	11614.93	129025.2	136901.3	3.4794
150.9351	150.4456	87.5027		5.5246	2.846	3.504	12212.19	5303.005	1355.231	2173.004	4103.053	875.9015	11283.4	284.3275	1	113317.9	140785.6	11567.73	129217.9	137061.9	3.45
142.1229	112.6705	88.2791		5.9518	2.4023	2.8497	11392.72	5210.438	1346.037	1518.95	4077.948	837.3475	11158.22	282.8799	0.8878	116868.4	144209.5	11441.1	132768.4	140526.6	2.8142
137.8743	118.799	86.8111		7.5408	2.8008	3.047	10610.41	4866.156	1311.842	2151.979	3045.432	833	8200.448	799.5522	0.662	117499.5	142399.5	9000	133399.5	139342.9	3.0314
143.134	122.5899	87.8147		6.4967	2.5418	3.0554	11220.65	5092.388	1334.312	1709.368	3849.581	833	10495.24	283.9144	0.829	116214.3	142893	10778.66	132114.3	139423.3	3.0167
149.1877	192.9648	88.4039		4.8732	3.3013	4.1755	12020.36	5444.133	1369.248	2118.342	3751.961	934.6812	10317.89	285.9844	1	110386.5	136890.4	10603.88	126286.5	133477	4.1078
149.9811	92.8908	86.9561		5.1014	2.1523	2.4809	11831.49	5394.706	1364.339	1971.057	3785.291	914.0949	10326.68	282.1348	0.839	119379.4	145888.2	10608.81	135279.4	142473.2	2.457
158.5246	121.9543	87.8996		4.9061	2.508	3.0057	12666.44	5437.005	1368.54	2293.261	4233.927	931.7125	11643.3	283.1722	1	115721.2	143547.7	11926.47	131621.2	139708.6	2.9643
138.2361	115.8391	87.7025		7.0566	2.6697	2.9797	10972.53	4971.295	1322.284	2287.087	3156.866	833	8512.373	632.6446	0.6791	117631.8	142676.8	9145.017	133531.8	139733	2.9598
150.7557	100.736	86.8686		5.5691	2.277	2.6599	11606.81	5293.557	1354.273	2123.546	3561.755	871.8833	9693.307	289.034	0.8025	118842.2	144724.6	9982.341	134742.2	141511.3	2.6335
150.0452	134.7967	87.939		6.6357	2.6718	3.2471	12025.1	5062.264	1331.32	2323.734	4072.784	833	11199.8	283.7643	0.9979	114733.7	142117.2	11483.57	130633.7	138420.7	3.2006
142.7213	79.2449	86.981		4.9899	2.1095	2.2202	11266.74	5418.859	1366.738	1986.551	3168.439	924.1549	8599.3	542.767	0.7637	121702.1	146744.1	9142.067	137602.1	143801.3	2.2133
142.1114	141.9527	88.0002		7.0791	2.7537	3.368	11526.96	4966.203	1321.779	1924.683	4079.199	833	11204.41	284.0341	0.9636	114090	141478.5	11488.45	129990	137780.4	3.3181
143.7125	106.7394	87.7257		6.1437	2.4384	2.79	11268.95	5168.866	1341.908	1521.612	3371.568	833	9178.183	432.0145	0.8064	118369.7	143879.9	9610.198	134269.8	140786.4	2.7665
149.0059	123.9172	87.5345		6.5476	2.5579	3.0791	11420.64	5081.362	1333.217	1918.967	3852.098	833	10507.66	283.4716	0.8371	116080.2	142771.3	10791.14	131980.2	139297.7	3.0397
150.4948	80.935	88.9183		4.545	1.9973	2.2401	12199.83	5515.24	1376.311	2406.479	3535.507	964.2976	9649.77	297.7507	0.8464	121099.6	146947.1	9947.521	136999.6	143745	2.2236
151.7411	153.3175	87.3192		6.3246	2.8731	3.544	11557.03	5129.672	1338.015	1695.989	4158.358	833	11435.49	284.3958	1	113006.7	140626.6	11719.88	128906.7	136854	3.4881
155.1523	99.1933	87.5707		5.4101	2.2452	2.6179	12312.61	5327.801	1357.694	2652.804	3686.082	886.2292	10075.33	282.4715	0.8698	118818.1	145075.9	10357.8	134718.1	141717.2	2.5912
158.8835	117.1961	87.2103		4.9318	2.4431	2.91	12469.81	5431.434	1367.987	2006.055	4332.94	929.3921	11915.6	282.9289	1	116048.1	144146.7	12198.53	131948.1	140220	2.8705
157.3741	104.1532	86.4554		4.6981	2.2806	2.6702	12573.55	5482.079	1373.017	2122.313	4243.657	950.4861	11670.06	282.4249	1	117480.8	145333.3	11952.49	133380.8	141485.8	2.6382
150.535	167.0959	87.0963		4.8428	3.055	3.8122	11907.44	5450.721	1369.902	2084.901	3662.486	937.4254	10071.84	285.196	1	112472.7	138729.7	10357.04	128372.7	135395.8	3.7557
143.5396	108.5508	88.1542		5.8276	2.3649	2.7945	11388.04	5237.35	1348.71	1751.451	3799.976	848.5562	10392.04	282.8398	0.8786	117668.7	144243.6	10674.88	133568.7	140807.3	2.7627
157.309	108.8591	87.6226		5.5844	2.3437	2.7633	12647.36	5290.041	1353.943	2510.002	4220.869	870.502	11604.28	282.6384	0.9888	117031.2	144818.1	11886.92	132931.2	140991.7	2.7289
154.6324	121.9635	86.9154		4.7405	2.5051	3.0014	12352.47	5472.893	1372.105	1876.391	4282.426	946.6598	11776.67	283.1471	1	115655.9	143615.7	12059.82	131555.9	139733.6	2.9597
135.3298	115.0106	87.1342		7.2674	2.734	2.9734	10609.12	4925.399	1317.726	2085.509	3045.485	833	8233.68	766.3198	0.7122	117863.6	142763.6	9000	133763.6	139741.2	2.9583
136.6864	122.4156	85.7099		6.7953	2.6124	3.0849	10822.55	5027.689	1327.886	1774.218	3457.759	833	9385.164	382.0386	0.7646	116704.9	142372.1	9767.202	132604.9	139228	3.0525
139.9296	153.5836	85.0121		7.8206	2.9166	3.6081	10911.15	4805.535	1305.821	1940.521	3624.269	833	9889.423	284.756	0.8422	113675.5	139749.6	10174.18	129575.5	136474.6	3.5577
154.4185	92.7868	87.5209		4.5289	2.1456	2.4712	12336.82	5518.73	1376.657	2217.372	3856.313	965.7512	10604.87	282.0858	1	119246	146032.9	10886.96	135146	142528.4	2.4469
147.0772	140.4612	86.9812		6.8961	2.7141	3.3096	11860.03	5005.842	1325.716	1883.996	4409.482	833	12119.21	283.7854	0.9798	113799.5	142102.5	12403	129699.5	138110	3.2576
153.761	87.7049	87.224		5.3669	2.2186	2.4038	11861.17	5337.175	1358.625	2642.464	4230.776	890.1334	8785.473	513.1773	0.7908	120622	145820.6	9298.651	136522	142827.4	2.392
152.4562	141.6147	86.5421		4.9669	2.7828	3.4107	12029.47	5423.836	1367.232	2314.344	3595.827	926.2276	9888.525	284.3045	1	114725	140797.9	10172.83	130625	137523.2	3.3653
148.9572	141.4344	87.1786		6.1198	2.7494	3.3617	11757.44	5174.004	1342.422	1954.323	4051.655	833	11142.06	284.028	1	114164.6	141490.7	11426.08	130064.6	137812.6	3.3122
152.2426	107.8029	88.383		5.6392	2.3272	2.739	12276.71	5278.17	1352.764	2099.433	4278.79	865.5578	11736.42	282.5703	0.9334	117072.5	144991.4	12018.99	132972.5	141122.5	2.7049
140.0288	166.5993	88.1936		7.0233	3.0037	3.7368	11464	4978.296	1322.98	1659.159	4268.568	833	11738.57	284.781	1	111789.7	139713.1	12023.35	127689.7	135842.7	3.6737
149.2156	83.924	87.5625		5.18	2.157	2.321	12033.38	5377.67	1362.647	2730.687	3253.375	906.9995	8803.881	502.5442	0.7242	121060.8	14				

TABLE 2

yield draws	crude oil price draws	corn acres draws	9bg mandate	9bg mandate																	
				Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
142.5265	133.4165	88.2148		6.8065	2.6596	3.2291	11537.95	5025.268	1327.645	1926.425	4023.611	833	11036.12	283.7447	0.9327	114936.5	142156.4	11319.86	130836.5	138512.5	3.1838
153.8726	161.274	87.1202		6.2584	2.9461	3.6518	12075.56	5144.012	1339.439	2049.53	4307.58	833	11845.85	284.5775	1	112169.1	140199.5	12130.42	128069.1	136294.7	3.5907
136.4281	126.9144	87.4581		7.0386	2.6753	3.1677	10509.84	4974.964	1322.649	1526.735	3450.493	833	9347.554	395.4026	0.7387	116277.6	141920.6	9742.956	132177.6	138784.3	3.1339
157.7676	111.705	87.897		5.6419	2.3711	2.8038	12289.83	5277.593	1352.707	2012.533	4379.683	865.3173	12043.03	282.6803	0.9952	116526.3	144752	12325.71	132426.3	140784.4	2.7669
153.0318	135.2209	88.1504		6.2473	2.6567	3.2249	12001.9	5146.409	1339.677	1907.77	4373.045	833	12025.87	283.6108	1	114308.6	142518.1	12309.49	130208.6	138555.7	3.1759
151.7865	142.0169	88.226		5.4462	2.7398	3.3476	12140.09	5319.99	1356.918	1891.442	4286.765	882.9759	11788.61	283.9121	1	113815.6	141788.1	12072.52	129715.6	137902	3.2958
145.7336	113.6309	86.9588		6.2601	2.4739	2.9169	11108.44	5143.639	1339.402	1889.623	3500.777	833	9539.514	333.8363	0.8214	117538.1	143311.5	9873.35	133438.1	140133.3	2.8864
155.3838	121.5145	86.8348		5.041	2.5287	3.036	12300.72	5407.782	1365.638	2392.043	3813.712	919.5143	10487.71	283.3763	1	116322.3	142993.4	10771.09	132222.3	139526.2	2.9978
135.4981	95.8398	87.1786		7.3213	2.7326	2.6259	10621.55	4913.728	1316.567	2256.282	2899.978	833	7777.634	1222.366	0.6147	120605.7	145505.7	9000	136505.7	14516.7	2.6325
151.3806	114.8071	87.677		5.8994	2.4241	2.8819	12168.53	5221.788	1347.164	2203.776	4151.725	842.0749	11409.91	282.9237	0.9777	116531.1	144123.9	11692.83	132431.1	140360	2.8448
158.6446	97.216	86.9705		4.7933	2.1965	2.5462	12664.44	5461.458	1370.969	2422.169	4065.945	941.8971	11181.35	282.1983	1	118463.4	145826.9	11463.55	134363.4	142136.8	2.5187
151.9745	89.2007	88.5604		4.9242	2.107	2.4141	12299.91	5433.098	1368.152	2538.07	3628.503	930.0852	9914.273	282.0218	0.8637	120010	146106.3	10196.29	135910	142824.1	2.3926
148.8757	136.8569	85.6774		6.9574	2.6987	3.2869	11532.1	4992.554	1324.396	1940.889	4039.265	833	11073.8	283.8694	0.9233	114605.6	141863.3	11357.67	130505.6	138207.3	3.2398
156.1054	164.7239	87.4651		4.6992	2.9992	3.73	12420.07	5481.834	1372.993	2136.711	4076.147	950.384	11209.41	284.8429	1	112169.7	139563.9	11494.25	128069.7	138563.9	3.6698
143.7565	58.4484	87.3596		4.6125	1.9937	1.7577	11584.42	5500.631	1374.86	2353.088	2995.625	958.2128	8072.363	927.6366	0.6711	125347.2	150247.2	9000	141247.2	146207.5	1.7718
158.0473	152.997	89.0061		4.671	2.8907	3.5699	12820.21	5487.95	1373.6	2737.996	3866.635	952.9311	10633.25	284.5652	1	113393	140210.8	10917.82	129293	136696.3	3.517
145.1837	129.4574	87.6907		6.5062	2.6298	3.1851	11601.78	5090.334	1334.108	2192.81	3749.534	833	10310.71	283.736	0.9971	115646.6	142141.1	10594.44	131546.6	138730.7	3.1437
144.4571	119.5564	87.7455		6.2498	2.4881	2.9762	11538.7	5145.88	1339.625	1721.213	4096.984	833	11213.84	283.1566	0.8933	116160.8	143557.8	11497	132060.8	139856.9	2.9371
158.0217	110.0382	88.9367		5.2856	2.2456	2.6186	12648.8	5354.782	1360.374	2509.107	4125.069	897.4669	11335.91	282.3445	0.9759	117976.5	145494.8	11618.26	133876.5	141754.9	2.5888
157.2683	118.8135	85.8545		5.625	2.469	2.9481	12380.76	5281.253	1353.07	2239.13	4238.468	866.842	11655.79	283.043	1	116017.8	143856.7	11938.83	131917.8	140013.6	2.9084
150.2421	95.2606	87.8045		5.2725	2.1941	2.5425	12166.65	5357.622	1360.656	2516.634	3631.091	898.6494	9881.936	282.3188	0.8024	119347.7	145411.9	10164.25	135247.7	142140.1	2.5181
154.0035	86.4592	87.0658		4.5224	2.0394	2.3145	12172.98	5520.141	1376.797	1729.819	4177.884	966.3388	11487.37	281.6521	0.9927	119489.3	147158.3	11769.02	135389.3	143369.8	2.2925
141.0166	84.9387	86.933		4.9848	2.112	2.3354	11159.24	5419.97	1366.848	1644.953	3400.846	924.6177	9248.628	395.7342	0.7919	120776.3	146320.7	9644.363	136676.3	143216.1	2.3207
152.8895	112.8649	87.7402		5.7643	2.3917	2.8342	12295.8	5251.064	1350.072	2157.388	4281.011	854.2681	11768.25	282.7777	0.9851	116547	144498.1	12051.03	132447	140618.9	2.7973
141.4129	118.3401	85.9921		6.7801	2.6264	3.0174	10730.4	5030.978	1328.212	1846.501	3289.71	833	8981.369	498.5777	0.8507	117232.5	142612.5	9479.997	133132.5	139560.9	2.9914
155.1155	151.0242	87.4077		6.6891	2.8207	3.4669	12000.48	5050.694	1330.17	1841.957	4542.656	833	12492.31	284.0812	1	112723.9	141400.3	12776.39	128623.9	137287.6	3.4086
145.4123	122.2095	88.2165		6.2634	2.517	3.0189	11824.45	5142.936	1339.332	1962.297	4144.882	833	11382.84	283.2323	0.9595	115822.7	143388.7	11666.07	131722.7	139633.4	2.9781
146.499	149.8048	88.808		7.176	2.801	3.4379	11943.04	4945.206	1319.693	1806.27	4636.875	833	12746.46	283.9836	0.985	112711.2	141641.6	13030.44	128611.2	137447.1	3.3793
154.9215	107.0667	86.6684		5.6759	2.3404	2.7884	12251.14	5270.226	1351.975	2491.635	3873.508	862.2492	10627.43	282.7327	0.941	117704.4	144514.5	10910.17	133604.4	141002.6	2.7269
145.347	172.8336	86.5864		6.3481	3.1096	3.8926	11274.18	5124.588	1337.51	1863.379	3713.703	833	90212.69	285.358	1	111954.5	138352.6	10498.04	127854.5	134973.2	3.8332
154.8984	95.2847	86.2555		5.2103	2.1911	2.5381	11940.06	5371.103	1361.995	2223.598	3677.104	904.2645	10057.19	282.2914	0.8806	119254.3	145493.8	10339.48	135154.3	142165.6	2.5135
139.2638	117.5805	87.4241		6.6012	2.5781	2.9984	10971.65	5069.733	1332.061	1961.152	3373.705	833	9215.272	429.4382	0.8587	117237.6	142782.3	9644.71	133137.6	139677.7	2.97
146.7428	123.3769	87.2645		6.3377	2.5325	3.0417	11698.57	5126.829	1337.732	1870.771	4128.234	833	11331.3	283.2892	0.9479	115735.8	143250.4	11614.59	131635.8	139511.7	3.0004
144.4036	89.3658	89.3341		5.0875	2.1441	2.4268	11794.42	5397.706	1364.637	2228.177	3486.552	915.3445	9495.623	337.5663	0.8133	120173.9	145907.1	9833.189	136073.9	142741.8	2.4077
151.7669	111.233	86.9153		5.5553	2.382	2.8198	12102.66	5296.342	1354.569	2088.281	4088.345	873.1264	11242.95	282.8036	1	116971	144396.8	11525.75	132871	140686.6	2.7848
152.0783	131.6575	86.5005		6.188	2.6227	3.1747	11966.08	5159.268	1340.954	1969.883	4260.98	833	11717.7	283.5382	1	114776.9	142678.2	12001.23	130676.9	138815	3.1283
143.2099	98.0912	88.553		5.992	2.3849	2.6243	11267.27	5201.724	1345.171	2266.206	3218.453	833.718	8720.338	546.3777	0.7408	119461.2	144628	9266.716	135361.2	141645	2.609
153.5285	87.2295	87.2057		4.871	2.0935	2.3784	12162.45	5444.611	1369.296	2487.84	3523.819	934.8806	9632.894	302.8904	0.8717	120369.7	146205.5	9935.784	136269.7	143007.1	2.359
149.8291	103.5354	88.3303		5.6511	2.3105	2.7143	11978.56	5275.586	1352.507	2506.234	3577.749	864.4816	9772.233	282.7234	0.8581	118506.2	144461.2	10054.96	134406.2	141224.5	2.6862
146.4457	122.0222	85.5619		6.415	2.5447	3.0596	11388.02	5110.093	1336.07	2038.551	3668.304	833	10057.11	283.4811	0.9239	116480.8	142721.4	10340.59	132380.8	139392.7	3.0223
138.0678	117.9764	87.3699		6.2916	2.4912	2.9807	10892.59	5136.825	1338.725	1455.457	3726.583	833	10179.74	283.2868	0.8597	116819.5	143182.5	10463.03	132719.5	139814.4	2.9449
141.1897	131.5371	87.5603		6.8887	2.6626	3.2335	10992.16	5007.441	1325.875	1774.186	3649.659	833	9977.172	283.8879	0.8722	115608.8	141769.8	10261.06	131508.8	138466.8	3.1922
154.0714	126.7734	87.14		5.8019	2.5653	3.0901	12260.1	5242.915	1349.262	2162.645	4252.399	850.874	11694.1	283.3534	1	115240.6	143118.1	11977.45	131140.6	139262.5	3.0462
151.1559	132.3461	86.9539		6.4983	2.6305	3.1864	12153.44	5092.043	1334.277	2228.353	4263.762	833	11724.94	283.5631	0.9978	114710.5	142619	12008.5	130610.5	138753.5	3.1396
153.6761	128.1562	85.2238		5.6763	2.598	3.1382	11813.9	5270.135	1351.966	1926.998	4000.895	862.2113	11002.46	283.5449	1	115440.7	142626.7	11286.01	131340.7	139993.7	3.0955
149.4623	153.4808	87.489		5.8766	2.8657	3.5332	12101.67	5226.73	1347.655	1996.631	4284.526	844.1331	11782.45	284.3238	1	1128					

TABLE 2

yield draws	crude oil price draws	corn acres draws	96g mandate	96g mandate												Total ethanol demand	Total gas supply	Total fuel demand	Fuel price		
				Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running					Gasoline domestic supply	Total fuel volume
144.2921	103.4627	88.9321		5.3992	2.2658	2.6484	11683.13	5330.174	1357.929	1352.343	4353.463	887.2175	11951.72	282.3473	0.952	117409.6	145543.7	12234.07	133309.6	141605.6	2.6162
148.8587	149.5916	86.9268		7.3337	2.8393	3.4942	11485.72	4911.024	1316.298	1955.266	4068.132	833	11180.52	284.3196	0.9785	113437.1	140802	11464.84	129337.1	137111.4	3.4409
152.179	97.4353	88.0261		5.156	2.2033	2.5563	12258.77	5382.87	1363.163	2203.14	3998.434	909.1654	10984.4	282.2403	0.9676	118541.2	145707.9	11266.64	134441.2	142081.1	2.529
137.5671	149.3227	86.7118		7.9048	2.9442	3.5539	10785.34	4787.296	1304.009	2041.867	3417.166	833	9332.416	410.108	0.856	114220.7	139863.2	9742.524	130120.7	136727.1	3.5114
150.5352	141.873	85.8684		4.3382	2.7493	3.3614	11857.12	5560.06	1380.762	1405.134	4126.201	982.9648	11347.06	284.0007	1	114031.5	141562.5	11631.06	129931.5	137818.5	3.3111
158.9467	104.9618	86.6165		4.6201	2.2856	2.6776	12915.87	5498.987	1374.696	2336.73	4345.928	957.5281	11951.31	282.4119	1	117255.1	145388.8	12233.72	133155.1	141450.8	2.6446
153.4568	154.11	88.0572		6.4296	2.8735	3.5446	11951.57	5106.923	1335.755	2003.625	4270.268	833	11743.24	284.3546	1	112802.7	140730.3	12027.6	128702.7	136858.6	3.4873
156.6803	125.1926	88.558		5.6572	2.5501	3.0678	12398.94	5274.277	1352.377	2315.638	4190.713	863.9364	11524.46	283.3243	1	115470.5	143178.3	11807.79	131370.5	139377.4	3.0251
158.1877	101.9763	86.5366		5.4173	2.2715	2.6568	11990.47	5326.248	1357.539	2133.943	3885.16	885.5821	10666.74	282.499	0.9534	118218.2	145067.4	10949.23	134118.2	141542.8	2.6277
140.4679	134.0026	87.3036		7.1863	2.7283	3.2896	11148.4	4942.962	1319.47	2143.617	3507.349	833	9542.722	337.8881	0.7986	115549.5	141330.1	9880.61	131449.5	138149.6	3.2504
142.3104	105.201	86.2326		6.1203	2.4409	2.7625	10974.59	5173.939	1342.412	1917.976	3305.263	833	9023.896	473.2892	0.8509	118583.9	143981	9497.185	134483.9	140923.9	2.7413
153.3451	122.6565	87.7519		5.2574	2.5434	3.0577	12323.56	5360.895	1360.981	2495.436	3804.234	900.0128	10461.64	283.4286	1	116224	142869.1	10745.07	132124	139410.3	3.019
152.8499	115.128	87.1621		6.0505	2.4376	2.9018	12266.14	5189.057	1343.913	2492.782	4005.384	833	10975.33	283.0172	0.9136	116713	143871.4	11258.35	132613	140247.3	2.8655
156.9824	191.7478	85.4907		4.1791	3.2955	4.1669	12448.58	5595.543	1384.186	2385.231	3685.311	997.3219	10134.61	285.9946	1	110550.3	136870.9	10420.6	126450.3	133216.5	4.1005
158.9017	131.2765	87.9316		4.2384	2.6089	3.1545	12642.87	5581.689	1382.911	1881.867	4402.433	991.9736	12106.7	283.4456	1	114628	142918.2	12390.14	130528	138929.8	3.1072
154.9415	132.0771	87.6666		4.874	2.6343	3.1919	12365.68	5443.959	1369.231	2058.668	4157.217	934.6088	11432.35	283.6118	1	114873.6	142489.6	11715.96	130773.6	138718.2	3.146
156.841	132.8414	87.8462		4.0807	2.6508	3.2162	12589.47	5615.841	1386.303	2134.966	4044.162	1006.198	11121.45	283.7049	1	114949.2	142254.4	11405.15	130849.2	138583.1	3.1708
155.8149	130.6895	88.6369		4.882	2.6132	3.1607	12633.32	5442.232	1369.059	2254.308	4231.828	933.8896	11637.53	283.5171	1	114903.8	142724.8	11921.05	130803.8	138887.4	3.115
155.1387	156.5091	87.7875		5.4619	2.8886	3.567	12220.67	5316.592	1356.58	1852.851	4411.084	881.5604	12130.48	284.3504	1	112431.4	140746.3	12414.83	128331.4	136749.9	3.5072
141.828	138.3336	86.919		7.0893	2.7467	3.3575	11066.89	4963.975	1321.557	1970.64	3575.714	833	9814.08	284.1926	0.9465	115056.5	141054.7	10098.27	130956.5	137804.1	3.3138
140.7453	184.4836	86.4666		8.0769	3.2013	4.028	11139.36	4749.997	1300.304	1857.354	3996.707	833	10990.94	285.5438	1	110733.4	137909.8	11276.49	126633.4	134279.9	3.9604
153.6821	133.5396	87.1085		5.8712	2.6589	3.2281	12246.94	5227.9	1347.771	2379.088	4045.557	844.6202	11125.29	283.7311	1	114883.4	142192.4	11409.02	130783.4	138519.8	3.1824
151.6538	117.9778	87.5901		5.7222	2.463	2.9392	12084.87	5260.192	1350.978	2047.354	4166.272	858.0698	11457.25	283.046	1	116196	143836.3	11740.3	132096	140057.1	2.9004
143.0647	141.5599	87.5671		5.2296	2.7999	3.4177	11628.82	5366.923	1361.579	2090.194	3505.603	902.5235	9640.41	308.3442	1	114829.6	140678.3	9948.754	130729.6	137475.8	3.374
151.6318	148.9784	87.3019		4.4534	2.8227	3.4697	12129.07	5535.106	1378.284	1635.746	4205.363	972.5715	11564.75	284.2127	1	113315.8	141064.8	11848.97	129215.8	137250.6	3.4153
151.1237	131.5858	87.365		5.4578	2.6147	3.163	12047.24	5317.473	1356.668	1719.656	4369.517	881.9276	12016.17	283.4755	1	114642.6	142842.2	12299.65	130542.6	138883	3.1158
147.1592	181.7974	87.9936		6.182	3.1293	3.922	11799.47	5160.575	1341.084	1491.081	4571.727	833	12572.26	285.0639	1	110270.6	139027.9	12857.32	126170.6	134889.1	3.8486
152.9734	137.2825	87.6717		6.336	2.6817	3.2618	12428.23	5127.209	1337.77	2374.867	4353.384	833	11971.81	283.6989	1	114149.2	142304.7	12255.51	130049.2	138359.7	3.2118
155.0381	103.9174	87.8899		4.5267	2.2748	2.6617	12502.51	5519.205	1376.704	1946.402	4292.245	965.949	11803.67	282.392	1	117437.6	145423.7	12086.07	133337.6	141533.2	2.6295
141.2909	126.6327	86.2296		6.1166	2.607	3.1515	11184.53	5174.739	1342.491	1861.704	3570.598	833	9819.146	283.72	1	116148.7	142151.6	10102.87	132048.7	138899.5	3.1128
153.8382	89.7576	86.6912		4.8045	2.0892	2.388	12203.45	5459.014	1370.726	1896.456	4134.376	940.8795	11340.16	281.8295	0.9331	119197.3	146719.3	11621.98	135097.3	142978.2	2.3644
146.4921	121.1073	87.9731		5.7635	2.5071	3.0043	11590.55	5251.251	1350.09	1652.023	4080.837	854.3458	11222.3	283.2184	1	116006.4	143411.9	11505.52	131906.4	139708.3	2.9644
143.7756	82.2446	87.7434		4.9304	2.3637	3.2139	11116.45	5215.078	1346.498	2323.49	2990.1	839.28	8085.049	914.9508	0.714	121909	146809	9000	137809	143236.8	2.3169
153.7694	123.4069	86.6609		5.772	2.5421	3.0559	12125.9	5249.398	1349.906	2298.37	3972.656	853.5742	10924.81	283.3693	1	115928.6	143036.8	11208.18	131828.6	139428.9	3.0156
146.7772	118.2141	87.5873		6.2953	2.4976	2.9902	11538.51	5136.012	1338.645	2164.391	3664.465	833	10023.02	283.3267	0.8812	116872.2	143078.6	10306.34	132772.2	139761	2.9547
149.2852	99.5366	87.077		5.289	2.232	2.5985	11704.02	5354.046	1360.3	1685.318	4005.2	897.1603	10992.78	282.3343	0.9463	118311.4	145486.5	11275.12	134211.4	141857	2.5701
145.383	80.2104	88.4522		5.0663	2.1354	2.2433	11850.71	5402.301	1365.093	2631.407	3133.007	917.2582	8522.564	562.9321	0.7958	121613.6	146599.1	9085.496	137513.6	143674.5	2.2366
152.1082	152.7	86.7525		7.2898	2.8573	3.5208	11930.8	4920.553	1317.245	2172.962	4285.04	833	11783.11	284.2964	0.9964	112902.7	1405870.1	12067.41	128802.7	139895.6	3.464
147.2674	136.8178	86.1531		6.4366	2.7183	3.3157	11839.82	5105.393	1335.603	2435.321	3728.503	833	10253.39	284.0399	1	114991	141428.4	10537.43	130891	138036.4	3.2712
146.1409	160.4105	87.9153		5.9303	2.9644	3.6786	11830.71	5215.106	1346.5	2085.484	3942.325	839.2915	10841.39	284.7807	1	112681.4	139707.6	11126.18	128581.4	136126	3.6217
154.479	132.8919	87.4505		6.7616	2.6449	3.2075	12053.53	5304.989	1328.611	2300.666	4154.266	833	11391.84	283.6517	0.9281	114817.4	142392.9	11675.49	130717.4	138634.6	3.1614
146.0266	109.4933	86.8957		5.8335	2.3888	2.8297	11517.09	5236.074	1348.583	2096.934	3585.472	848.0248	9842.024	282.9803	0.9491	117845.7	143870.7	10125	133745.7	140611.4	2.7986
141.7798	147.5051	88.3752		6.6363	2.8039	3.4421	11323.84	5062.126	1331.306	1453.626	4241.777	833	11664.89	284.1379	1	113396.5	141245.5	11949.03	129296.5	137399.1	3.3881
146.5554	120.9412	86.5696		6.2002	2.5031	2.9983	11334.73	5156.617	1340.691	1485.246	4117.175	833	11310.11	283.1948	0.9666	115979.9	143473.2	11593.3	131879.9	139741.3	2.9583
145.1526	78.3692	87.5838		5.0281	2.1192	2.2035	11226.05	5410.579	1365.915	2024.305	3102.551	920.7062	8416.286	583.7139	0.7568	121879.9	146779.9	9000	137779.9	143882.8	2.1984
154.4658	102.2389	87.2518		5.3671	2.2659	2.6485	11857.28	5337.129	1358.62	1818.829	4050.587	890.1144	11129.07	282.4325	0.9708	117955.3	145266.8				

TABLE 2

yield draws	crude oil price draws	corn acres draws	9bg mandate	9bg mandate																	
				Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
136.8815	84.5661	87.3389		6.0341	2.4113	2.3665	10731.65	5192.609	1344.266	2001.964	2957.81	833	8061.752	938.2476	0.8248	121642.3	146542.3	9000	137542.3	142951.8	2.3692
139.5608	99.3348	87.7475		5.8405	2.3497	2.6431	11056.15	5234.56	1348.433	1884.171	3339.592	847.3941	9076.964	452.9288	0.7839	119202.2	144632.1	9529.892	135102.2	141564.5	2.6238
151.1744	97.5501	86.57		5.3016	2.2213	2.5827	12032.22	5351.311	1360.029	2322.234	3700.63	896.021	10132.4	282.3855	0.8994	118967.2	145282	10414.79	134867.2	141929.5	2.5568
141.1093	133.3993	86.6358		6.9154	2.6713	3.2463	10921.58	5001.663	1325.301	1504.522	3855.095	833	10541.3	283.8458	0.8762	115170.3	141895.5	10825.14	131070.3	138410.9	3.2024
159.2218	86.2498	86.2016		4.9567	2.1099	2.3612	12334.54	5426.047	1367.452	2760.754	3451.136	927.1486	9408.7	357.578	0.8286	120564.5	146230.8	9766.278	136464.5	143087	2.3444
141.7651	102.8283	86.0421		5.9363	2.3739	2.7108	10735.64	5213.798	1346.37	1529.844	3404.882	838.7466	9244.507	410.8216	0.7689	118765.9	144321.2	9655.328	134665.9	141213.2	2.6882
146.6317	123.1617	85.4913		6.612	2.5861	3.0942	11267.42	5067.394	1331.829	2122.887	3510.305	833	9599.353	318.4584	0.8777	116568.2	142386	9917.811	132468.2	139193.5	3.0588
144.2639	127.4689	86.9608		6.5611	2.5796	3.1113	11508.43	5078.425	1332.925	1687.297	4174.784	833	11434.04	283.432	0.9047	115299.6	142917.1	11717.47	131199.6	139145.2	3.0677
143.0113	164.7006	86.9274		6.7122	2.9787	3.6998	11347.88	5045.696	1329.674	1393.47	4344.044	833	11946.12	284.6691	1	111850.2	139981	12230.79	127750.2	136043.9	3.6368
151.2442	179.4702	88.3635		4.345	3.1378	3.9345	12273.57	5558.577	1380.615	1763.358	4186.672	982.3471	11513.35	285.2536	1	110890.5	138589.1	11798.6	126790.5	134791.1	3.8666
156.0224	128.4332	87.4649		5.0726	2.5713	3.099	12404.63	5400.926	1364.957	1853.47	4466.591	916.6858	12283.13	283.3021	1	114805.4	143271.8	12566.43	130705.4	139226.7	3.0527
141.779	134.3388	87.1206		6.9878	2.6911	3.2756	11168	4985.978	1323.743	1901.684	3721.593	833	10175.1	283.9588	0.8743	115255.1	141614.2	10459.06	131155.1	138247.4	3.2324
154.3764	177.241	87.1625		5.5625	3.0966	3.8738	12246.21	5294.788	1354.415	1889.537	4432.991	872.4793	12190.73	285.0163	1	110772.2	139147.9	12475.74	126672.2	135132	3.8041
152.4247	95.268	86.3997		5.183	2.1864	2.5312	12097.67	5377.022	1362.582	2287.893	3761.446	906.7297	10295.67	282.252	0.8937	119132.8	145610.7	10577.92	135032.8	142205.7	2.5061
136.9477	149.1162	86.6357		7.7335	2.8717	3.5419	10540.97	4824.406	1307.695	1589.551	3584.314	833	9722.222	284.6276	0.7555	114136.4	140043.2	10006.85	130036.4	136822	3.494
138.8092	91.8458	86.1832		6.0682	2.4021	2.5079	10605.14	5185.219	1343.532	1784.621	3056.763	833	8266.309	733.6914	0.7156	120440.6	145340.6	9000	136340.6	142231.4	2.5014
149.3771	139.4657	87.0052		5.736	2.6953	3.282	11934.03	5257.199	1350.681	1549.947	4517.379	856.8233	12422.79	283.6857	1	113746.4	142352.9	12706.48	129646.4	138262.7	3.2296
151.1272	97.3345	88.7019		5.1483	2.1838	2.5275	12179.96	5384.539	1363.329	1769.277	4350.957	909.8606	11927.48	282.0829	0.9219	118066.1	146175.6	12209.57	133966.1	142245.4	2.4988
142.1335	170.2984	88.2587		7.6926	3.0612	3.8215	11086.86	4833.275	1308.576	1702.469	4007.539	833	11020.73	285.0756	1	111807.8	139013.6	11305.81	127707.8	135374.3	3.7596
148.9721	128.8555	88.2495		5.8677	2.6274	3.1815	11989.61	5228.668	1347.848	2491.654	3674.502	844.9408	10104.88	283.7534	1	115801.4	142089.6	10388.64	131701	138745.5	3.141
140.6803	184.0973	86.8587		8.4912	3.1777	3.9933	10780.09	4660.241	1291.39	1349.172	4244.286	833	11665.96	285.3608	0.9817	110480.4	138331.7	11951.32	126380.4	134484.6	3.9229
141.328	111.2525	87.2561		6.2071	2.4547	2.8727	11182.19	5155.138	1340.544	1973.557	3477.949	833	9463.077	354.8124	0.7991	117806.3	143524.2	9817.889	133706.3	140363.8	2.8441
146.9493	115.4992	87.6797		4.3424	2.449	2.9185	11556.55	5559.145	1380.671	1352.177	3879.971	982.5839	10669.92	283.0895	1	116826.1	143679.1	10953.01	132726.1	140153.3	2.8827
154.3502	136.031	87.644		6.5631	2.6716	3.2469	11700.64	5077.998	1332.882	1765.31	4289.452	833	11795.98	283.6883	0.9999	114343.3	142323	12079.67	130243.3	138434.5	3.1981
145.9348	107.9854	87.6493		6.0788	2.4177	2.8098	11495.59	5182.932	1343.305	2270.738	3463.62	833	9419.947	365.5715	0.7928	118160.2	143845.7	9785.519	134060.2	140695.8	2.7832
143.8566	132.7083	87.006		6.8831	2.691	3.2643	11298.84	5008.66	1325.996	2207.402	3521.788	833	9668.799	298.5786	0.9527	115635.1	141502.5	9967.378	131535.1	138294	3.2239
148.394	87.1492	87.2397		5.4398	2.2236	2.3936	11764.69	5321.381	1357.056	2579.661	3221.036	883.5551	8687.81	596.5474	0.6825	120722.6	145847	9224.357	136622.6	142877.6	2.3828
141.832	91.5886	85.8532		5.6461	2.2874	2.4883	11132.38	5276.686	1352.617	2015.421	3220.722	864.9397	8720.474	535.9118	0.7317	120195.8	145352.2	9256.385	136095.8	142372.5	2.4755
140.1041	91.7482	86.5694		5.8361	2.3317	2.497	10811.02	5235.514	1348.527	1848.97	3128.215	847.7917	8429.953	610.6896	0.6715	120280.8	145221.5	9040.642	136180.8	142311.3	2.4867
157.7586	141.0414	88.0572		4.2324	2.7373	3.3437	12643.46	5582.983	1383.039	2118.762	4164.168	992.5123	11451.47	283.9476	1	114056.7	141692.2	11735.41	129956.7	137914.5	3.2935
155.2045	115.4917	86.9134		5.3498	2.4394	2.9044	12161.3	5340.874	1358.992	2128.779	4038.985	891.6742	11107.21	283.0081	1	116612.1	143902.3	11390.22	132512.1	140235.8	2.8676
152.6771	157.4264	86.7201		5.8719	2.9197	3.6127	12008.7	5227.756	1347.757	2066.078	4120.55	844.5604	11331.51	284.5635	1	112710.8	140226.9	11616.08	128610.8	136487.7	3.5553
140.0349	130.1629	88.164		6.6781	2.639	3.1987	11255.8	5053.085	1330.408	1895.405	3741.901	833	10278.28	283.7771	0.9644	115956.5	142057.7	10562.05	131495.6	138657.7	3.1571
156.244	131.4676	86.1922		6.6671	2.6387	3.1983	11882.7	5055.462	1330.644	2276.402	3985.191	833	10948.43	283.6865	0.9686	115157.4	142289.6	11232.11	131057.4	138673.9	3.1542
143.4546	61.6002	88.0062		5.3918	2.2066	1.8557	11305.43	5331.787	1358.09	2431.484	2894.179	887.8892	7786.673	1213.327	0.6519	125440.3	150340.3	9000	141340.3	145635.9	1.8767
153.517	106.1453	87.176		5.5089	2.308	2.7106	12057.53	5306.399	1355.568	1888.52	4227.732	877.3152	11616.67	282.5201	0.9728	117302.2	145101.4	11899.19	133202.2	141271	2.6776
155.3479	110.7302	87.7464		4.9547	2.3585	2.7851	12578.65	5426.492	1367.496	2073.051	4382.274	927.3341	12051.26	282.6383	1	116619.6	144853.5	12333.9	132519.6	140883.2	2.7488
151.5808	163.3828	87.2649		5.7154	3.0049	3.7384	11809.1	5261.663	1351.125	2119.718	3815.914	858.6827	10493.76	284.966	1	112595.0	139269.2	10778.73	128490.5	135799.6	3.6816
151.6879	166.576	87.6551		6.478	3.0072	3.7419	12167.75	5096.425	1334.713	2281.959	4219.65	833	11604.04	284.812	1	111850	139638.9	11888.85	127750	135811.8	3.6793
152.6613	123.0036	86.5281		5.8478	2.5311	3.0396	12139.44	5232.983	1348.276	2239.382	4070.569	846.7374	11192.66	283.301	1	115838.3	143214.3	11475.97	131738.3	139520.2	2.9989
151.0897	108.0702	87.9149		5.029	2.3866	2.7558	12033.04	5410.379	1365.896	1804.924	4129.216	920.6229	11355.35	282.6484	1	117236.2	144774.2	11638	133136.2	141027.9	2.7222
144.1722	111.8263	86.1411		6.0101	2.419	2.8743	11471.14	5197.804	1344.782	2090.556	3603.001	833	9859.203	283.0805	0.8888	117596.9	143639.2	10142.28	133496.9	140374.4	2.8421
155.6635	109.9333	88.2504		5.2871	2.3514	2.7746	12439.76	5354.464	1360.342	2097.636	4227.984	897.3344	11901.96	282.6314	1	116774	144858.6	12184.59	132674	140936.3	2.739
154.697	164.5585	87.4793		5.2949	2.9971	3.727	12150.73	5352.778	1360.174	2058.615	4080.531	896.6319	11221.46	284.8345	1	112177.7	139584	11506.3	128077.7	135880.1	3.6668
152.2467	164.997	87.4738		3.473	3.0063	3.7405	12423.68	5747.512	1399.381	1794.569	4019.177	1061.039	11052.74	284.8892	1	112216	139453.6	11337.63	128116	135804	3.6808
145.4188	129.1412	87.5442		6.6461	2.6017	3.1437	11382.67	5060.006	1331.095	1611.912	4144.654	833	11347.39	283.5149	0.8982	115184.7	142				

TABLE 2

yield draws	crude oil price draws	corn acres draws	96gb mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
142.4968	74.033	85.9516			5.9031	2.351	2.1433	10941.49	5220.99	1347.085	2205.279	2924.394	841.7421	7884.638	1115.362	0.6777	123357.5	148257.5	9000	139257.5	144114.3
143.3772	96.4933	86.7431		5.7285	2.3145	2.5853	11265.88	5258.826	1350.843	2065.927	3330.788	857.5009	9037.036	460.5319	0.7593	119530.3	144927.9	9497.568	135430.3	141870.6	2.5676
146.0263	177.4376	87.4625		8.2959	3.0954	3.872	11420.25	4702.555	1295.592	1707.706	4479.398	833	12297.77	284.9963	0.9525	110711.9	139194.6	12582.76	126611.9	135144.3	3.8018
152.2929	115.8973	87.7289		5.9526	2.4324	2.8941	12309.87	5210.265	1346.02	2268.529	4245.784	837.2754	11663.81	282.9222	0.9674	116298.7	144145.4	11946.73	132198.7	140299.7	2.8558
149.6458	119.303	87.2989		6.3191	2.5087	3.0065	11756.99	5130.859	1338.133	2346.939	3706.064	833	10145.79	283.3495	0.8967	116704.7	143033.9	10429.14	132604.7	139676.7	2.9702
142.9188	109.371	87.4053		6.1508	2.4407	2.8375	11131.77	5167.336	1341.756	1937.681	3449.997	833	9392.743	373.8226	0.8081	118023.9	143690.5	9766.565	133923.9	140546.7	2.8105
156.188	154.2529	87.0456		4.385	2.8986	3.5816	12364.07	5549.916	1379.755	2108.36	3945.303	978.7401	10849.6	284.5613	1	113190	140224.2	11134.16	129090	136640.1	3.5274
152.1485	106.4147	87.2619		5.6271	2.3222	2.7315	12136.89	5280.805	1353.026	2188.024	4046.378	866.6551	11096.43	282.622	0.9289	117536.2	144815.3	11379.05	133436.2	141152.4	2.6994
139.7669	92.8639	85.7897		6.1473	2.4204	2.5298	10682.09	5168.076	1341.829	1876.929	3060.257	833	8259.638	740.3625	0.6908	120327.7	145227.7	9000	136227.7	142113.3	2.5231
147.6382	87.7863	86.2447		4.8903	2.1078	2.3912	11466.84	5440.437	1368.881	1822.467	3499.915	933.142	9589.279	313.7666	0.9117	120321.3	146124.4	9903.045	136221.3	142936.6	2.372
152.2297	166.0608	86.8427		5.7909	3.0295	3.7746	11798.93	5245.308	1349.5	2092.58	3857.676	851.8709	10608.61	285.0312	1	112323.5	139117.1	10893.64	128223.5	135610.5	3.7163
138.3442	112.9662	87.5455		6.1284	2.4347	2.8974	10962.3	5172.174	1342.236	1606.407	3606.483	833	9819.8	283.1379	0.8096	117499.9	143502.9	10102.94	133399.9	140250.7	2.8648
153.7916	109.6923	87.6229		5.8655	2.3556	2.7808	12182.04	5289.597	1353.899	2065.034	4201.191	870.3172	11552.31	282.683	0.9955	116972.7	144707.7	11834.99	132872.7	140898	2.7461
140.7321	111.7565	87.5469		6.1393	2.4514	2.8812	10953.36	5169.828	1342.003	1722.086	3484.444	833	9525.929	337.1796	0.8729	117734.5	143497.6	9863.109	133634.5	140322.7	2.8516
147.2651	113.4872	87.1733		6.0195	2.4219	2.8786	11901.31	5195.783	1344.581	2204.704	3921.24	833	10730.64	282.9927	0.8898	116997.6	143911.3	11013.63	132897.6	140366	2.8437
154.6049	129.8954	86.6759		5.2216	2.6203	3.1712	12415.6	5368.661	1361.752	2403.118	3976.825	903.2472	10936.27	283.6271	1	115309.3	142429.2	11219.9	131209.3	138817.5	3.1278
144.5929	135.0524	87.8923		6.4787	2.6623	3.2332	11414.55	5096.26	1334.698	1489.281	4259.827	833	11713.04	283.6685	1	114470.2	142366.9	11996.71	130370.2	138505.2	3.1851
153.3127	130.4889	87.4495		6.4311	2.5969	3.1368	12042.29	5106.593	1335.723	1918.939	4446.034	833	12224.78	283.3921	0.993	114644.2	143052.3	12508.17	130544.2	139026	3.0896
155.3077	138.8724	86.5045		3.9842	2.7222	3.3215	11996.06	5636.752	1388.38	1531.333	4022.686	1014.907	11062.4	283.9484	1	114429.6	141675.9	11346.35	130329.6	138023.5	3.2735
154.1354	136.8765	90.4219		5.6318	2.6784	3.257	12400.36	5279.77	1352.923	2166.818	4332.619	866.2244	11914.71	283.6955	1	114212.1	142310.5	12198.4	130112.1	138383.8	3.2074
133.9354	168.5208	87.9507		8.3367	3.0664	3.8289	10558.06	4693.709	1294.714	1603.465	3731.178	833	10191.24	285.2163	0.858	112306.4	138682.9	10476.46	128206.4	135310.5	3.7713
152.6972	160.7551	88.2279		5.1115	2.9489	3.6558	12317.48	5392.498	1364.12	2047.417	4198.274	913.1756	11545.26	284.6293	1	112343.4	140073.3	11829.89	128243.4	132665.3	3.5961
158.7702	89.1551	86.7822		4.9261	2.1014	2.4059	12384.94	5432.683	1368.111	2515.608	3736.628	929.9125	10187.35	281.9774	0.8291	119871.5	146240.8	10469.33	135771.5	142870.7	2.3841
143.3906	141.2749	86.8747		6.9835	2.7506	3.3634	11140.54	4986.898	1323.834	1585.544	4009.264	833	11022.55	284.0475	0.9889	114233.8	141440.3	11306.6	130133.8	137800.8	3.3144
149.8737	81.895	85.4262		5.5328	2.2546	2.2928	11554.08	5301.225	1355.054	2564.07	3056.57	875.1602	8269.997	700.0035	0.7222	121666.6	146566.6	9000	137566.6	143380.8	2.2905
159.2917	86.6433	89.7314		3.231	2.0533	2.3351	13025.73	5799.95	1404.589	2392.758	3943.56	1082.879	10844.79	281.7564	1	119809.3	146835.9	11126.55	135709.3	143254.2	2.3137
146.4447	82.6686	85.6822		4.7443	2.0553	2.2826	11580.32	5472.062	1372.022	1942.089	3445.83	946.314	9411.919	354.7571	0.8581	120983.2	146649.9	9766.676	136883.2	143506	2.2675
140.7742	102.8854	87.8962		5.4869	2.2902	2.6844	11281.22	5311.174	1356.042	1563.946	3768.75	879.3038	10345.79	282.5948	0.9505	118284.8	144813.1	10628.39	134184.8	141391.9	2.6554
144.3383	167.0243	86.1204		6.6626	2.9887	3.7147	11213.4	5056.347	1330.741	1069.681	4521.545	833	12343.25	284.6313	1	111453.9	140072.8	12718.88	127353.9	135978.6	3.6487
137.378	89.1991	86.7285		5.8806	2.3452	2.4194	10662.87	5225.866	1347.569	1765.869	3077.793	843.7732	8300.557	699.943	0.6804	120712.7	145612.7	9000	136612.7	142550.1	2.4429
153.4522	86.9882	87.1972		4.9678	2.1035	2.3749	12100.82	5423.638	1367.212	2468.781	3513.041	926.1451	9535.265	326.8439	0.7647	120432.9	146195	9862.108	136332.9	143020.4	2.3566
151.8693	120.7309	88.8066		5.258	2.486	2.9732	11933.38	5360.759	1360.967	1562.729	4346.965	899.9559	11954.16	283.0642	1	115687.8	143825	12237.22	131587.8	139885.9	2.9318
154.4303	103.0721	86.8962		5.6304	2.286	2.689	12087.34	5280.071	1352.953	2394.072	3791.892	866.3497	10316.3	282.6083	0.7978	118279.9	144778.8	10598.9	134179.9	141367	2.66
138.9254	159.5882	87.9292		7.9532	2.9683	3.6843	10645.96	4776.801	1302.967	1539.741	3791.452	833	10374.75	284.8607	0.8886	112954.7	139514.3	10659.61	128854.7	136083	3.6296
159.2067	106.7149	88.3179		4.4069	2.3178	2.7251	12885.05	5545.172	1379.284	2399.037	4182.792	976.7641	11502.68	282.5644	1	117301.1	144986.3	11785.24	133201.1	141192.6	2.692
158.9329	114.9407	86.5793		5.1706	2.4356	2.8989	12314.79	5379.704	1362.849	2277.978	3984.412	907.8467	10957.14	283.0127	1	116740.6	143880.7	11240.15	132640.6	140262.5	2.8627
156.5702	88.8088	88.2786		3.9054	2.0814	2.3764	12663.39	5653.826	1390.075	2399.626	3795.848	1022.019	10438.58	281.887	1	119860.9	146481.4	10720.47	135760.9	143030.4	2.3548
145.1365	133.8138	86.9336		6.7739	2.6628	3.2339	11293.19	5032.316	1328.345	1656.884	4040.644	833	11095.99	283.7478	0.9582	114872	142151.7	11379.74	130772	138488.6	3.1882
153.4972	159.7785	87.6034		6.5083	2.9179	3.6101	12326.07	5089.874	1334.062	2188.522	4478.614	833	12316.19	284.4191	1	112082.6	140583.2	12600.61	127982.6	136527.1	3.5481
139.33	125.644	87.6171		6.5173	2.5793	3.1107	11093.87	5087.908	1333.867	1611.415	3825.683	833	10495.84	283.5445	0.9378	115920.3	142599.7	10779.39	131820.3	139129.8	3.0705
149.5602	126.0744	87.9012		6.1871	2.5598	3.082	11907.57	5159.461	1340.974	1965.294	4206.839	833	11568.8	283.3505	0.9999	115366.1	143118.3	11852.15	131266.1	139303.1	3.0387
156.655	89.8448	87.3282		4.8056	2.0898	2.3888	12587.2	5458.788	1370.704	2266.063	4148.857	940.7852	11380.28	281.8274	0.9339	119166.5	146728.6	11662.11	135065.5	142974.6	2.365
140.369	150.6689	86.5408		7.4409	2.8453	3.5031	11844.43	4887.8	1313.991	1592.922	4154.721	833	11401.34	284.3093	0.9429	113245.7	140831.4	11685.65	129145.7	137069.8	3.4485
131.7555	135.7043	87.6432		7.8077	2.8967	3.3373	10531.97	4808.339	1306.099	1980.199	3202.334	833	8698.897	603.41	0.7758	115626.6	140828.9	9302.307	131526.6	137834.5	3.3082
156.3703	132.1906	87.8697		6.3291	2.5902	3.1271	12677.85	5128.701	1337.918	2127.228	4849.004	833	13334.64	283.2354	0.9992	113965	143482.8	13617.87	129865	139099.3	3.0761
154.1902	93.5686	89.2688		4.8933	2.1355	2.4562	12711.4	5439.784	1368.816	2295.798	4272.132	932.8701	11742.01	281.9431	0.9805	118567.7					

TABLE 2

yield draws	crude oil price draws	corn acres draws	96kg mandate	96kg mandate													Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	
				Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply					Total fuel volume
152.2217	112.2063	87.5589		5.8165	2.3994	2.8454	12152	5239.755	1348.949	2303.386	4008.349	849.5581	11015.46	282.8861	0.9766	116985.7	144184.1	11298.35	132885.7	140547.1	2.8104
159.0978	104.5798	87.4717		5.4622	2.2813	2.6714	12566.38	5316.519	1356.573	2269.509	4340.25	881.53	11912.16	282.4021	0.9459	117314.2	145408.8	12194.56	133214.2	141483.4	2.6387
149.9372	96.6361	87.6257		5.4627	2.2429	2.5789	11845.05	5316.405	1356.562	2377.223	3511.381	881.4826	9537.808	329.3742	0.7749	119342.4	145109.6	9867.182	135242.4	141933.4	2.5561
156.7786	126.0482	86.5276		5.9777	2.5615	3.0486	12140.47	5204.821	1345.479	2141.997	4174.16	835.0081	11478.94	283.3671	1	115411.6	143073.9	11762.31	131311.6	139287.6	3.0416
156.7224	136.2659	88.5879		5.562	2.6689	3.243	12556.74	5294.898	1354.426	2263.507	4369.38	872.5249	12015.81	283.6519	1	114219.6	142419	12299.46	130119.6	138459.8	3.1935
148.5603	135.2429	87.5184		6.3252	2.653	3.2195	11683.04	5129.548	1338.003	1548.496	4431.994	833	12187.99	283.5785	1	114230.7	142602.3	12471.56	130130.7	138587.7	3.17
152.3349	121.0134	87.768		5.6565	2.4811	2.966	12145.88	5274.426	1352.392	1769.882	4483.177	863.9985	12328.74	283.0048	1	115479.1	143990.8	12611.74	131379.1	139931.1	2.9235
151.2753	101.1412	87.601		4.7699	2.2664	2.6492	12062.26	5466.527	1371.472	2112.715	3765.534	944.0083	10355.22	282.514	1	118465.6	145003.4	10637.73	134365.6	141579.1	2.6211
152.068	116.7701	86.1078		6.0546	2.459	2.9334	11776.2	5188.168	1343.825	2023.621	3985.59	833	10946.99	283.0914	0.9629	116564.1	143694.2	11230.08	132464.1	140079.2	2.8963
147.3208	140.1228	87.1293		6.8814	2.7374	3.3439	11461.93	5009.026	1326.032	1881.909	4009.962	833	11026.68	284.0033	0.9964	114334.3	141545	11310.69	130234.3	137904.1	3.2954
156.3347	107.1568	88.062		4.2728	2.3292	2.7418	12661.41	5574.224	1382.169	2229.368	4084.783	988.8641	11233.15	282.6304	1	117391.1	144806.9	11515.78	133291.1	141099.9	2.709
151.5408	111.5215	86.8222		5.9151	2.3986	2.8442	11922.04	5218.405	1346.828	2231.999	3882.138	840.6658	10636.54	282.9254	0.9117	117242.8	144062.3	10919.47	133142.8	140547.3	2.8104
148.9259	106.1518	87.7302		5.4924	2.3015	2.7011	12070.23	5309.975	1355.923	1778.296	4345.237	878.8045	11938.23	282.465	0.97	117139.6	145260.3	12220.7	133039.6	141326.4	2.6674
155.6404	119.921	87.5256		5.8749	2.4636	2.9402	12573.98	5227.096	1347.691	2202.526	4550.383	844.2856	12513.53	282.927	0.9998	115493.5	144189.9	12796.46	131393.5	140078.9	2.8979
151.8232	109.9082	86.8556		4.7265	2.3699	2.802	11808.47	5475.926	1372.406	1609.696	4000.516	947.923	11001.42	282.7902	1	117225.5	144409.7	11284.21	133125.5	140777.3	2.7682
151.4791	117.2738	86.9839		6.055	2.4505	2.9208	12006.01	5188.081	1343.816	2003.272	4235.841	833	11625.24	282.9859	0.9453	116182.7	143990.9	11908.23	132082.7	140157.6	2.8819
153.058	89.2063	86.2649		5.249	2.1781	2.428	11882.47	5362.713	1361.161	2446.081	3409.74	900.77	9236.849	402.2241	0.7383	120284.9	145824	9639.074	136184.9	142721.2	2.4115
145.8312	123.6088	85.6879		6.5366	2.5598	3.0818	11430	5083.746	1333.453	2021.907	3755.893	833	10258.9	283.5076	0.8582	116229.5	142671.9	10542.41	132129.5	139278.3	3.0433
153.2972	167.3322	84.8975		5.6822	3.0494	3.8039	11667.16	5268.864	1351.84	2014.409	3768.366	861.682	10363.01	285.1339	1	112327.6	138875.8	10648.14	128227.6	135448.2	3.7461
145.4974	131.4273	87.0233		6.6209	2.6308	3.1866	11431.79	5065.472	1331.638	1701.013	4098.669	833	11263.24	283.6211	0.9756	115012.6	142459.5	11546.86	130912.6	138742.5	3.1416
138.7347	136.7646	87.8434		7.3684	2.7956	3.3419	11229.36	4903.514	1315.552	2354.513	3420.777	833	9346.939	400.0784	0.8641	115347.4	140994.5	9747.017	131247.4	137856.9	3.3041
155.7043	99.0973	87.9821		4.3709	2.2267	2.5907	12322.8	5552.983	1380.059	2024.149	3983.593	980.0172	10954.88	282.3207	1	118377.8	145515	11237.2	134277.8	141897.7	2.5626
149.6451	93.7448	88.7002		5.0047	2.1424	2.4664	12246.26	5415.645	1366.419	1943.282	4196.1	922.8162	11501.67	281.9889	0.9198	118673.6	146357.3	11783.66	134573.6	142564.1	2.4403
149.424	209.5631	88.1026		5.3268	3.4388	4.3783	12100.54	5345.859	1359.487	2206.196	3893.247	893.7503	10706.43	286.3786	1	109062.6	135955.5	10992.81	124962.6	132416.9	4.3023
154.8087	112.3383	87.5566		5.4227	2.4186	2.8737	12224.35	5325.072	1357.423	2538.829	3715.932	885.0255	10218.81	283.0389	1	117362.2	143764	10501.85	133262.2	140383.5	2.8405
148.5098	96.5988	87.596		5.1649	2.1934	2.5416	12079.45	5380.933	1362.971	2051.922	3973.271	908.3584	10900.61	282.2157	0.9375	118674.9	145757.7	11182.82	134574.9	142157.9	2.5149
138.5915	108.9631	87.2692		6.02	2.3967	2.8247	11286.55	5195.671	1344.57	1960.566	3550.744	833	9638.471	304.9029	0.7659	117988	143831.4	9943.374	133888	140630.6	2.7951
151.4985	117.1576	88.0253		5.9171	2.4459	2.914	12041.47	5217.964	1346.784	1953.681	4280.557	840.482	11769.61	282.9544	0.9924	116123.4	144075.9	12052.56	132023.4	140196.2	2.8748
144.3043	115.1145	88.3043		6.6133	2.5682	2.9545	11238.25	5067.128	1331.803	2268.783	3335.538	833	9075.567	488.1252	0.7991	117530.9	142974.6	9543.692	133430.9	139902.5	2.9287
155.7938	119.03	87.1295		4.9538	2.4589	2.9322	12542.59	5426.382	1367.485	1971.515	4447.925	927.2789	12231.8	282.9441	1	115716.1	144130.9	12514.75	131616.1	140102.4	2.8921
150.6843	132.417	86.6407		5.2116	2.6333	3.1904	12017.92	5370.813	1361.966	1744.689	4234.309	904.1436	11644.35	283.5821	1	114742	142569.9	11927.93	130642	138730.3	3.1438
156.1926	139.9897	87.6696		4.9183	2.7124	3.3072	12660.16	5434.363	1368.278	2171.621	4353.292	930.6121	11971.55	283.7991	1	113909.3	142064.7	12255.35	129809.3	1381179	3.2559
142.1162	177.3381	87.7411		7.4808	3.1423	3.941	11139.39	4879.171	1313.134	1844.314	3867.767	833	10636.36	285.7401	1	111423.6	138245.4	10921.76	127323.6	134729.6	3.8779
144.1173	89.6935	86.5143		5.5053	2.2426	2.4458	11466.55	5307.184	1355.646	2231.364	3272.717	877.6422	8831.999	504.5875	0.6893	120374.1	145610.7	9336.587	136274.1	142605.3	2.4328
140.911	108.5679	88.3572		6.1764	2.4395	2.823	11070.16	5161.771	1341.203	1893.628	3438.559	833	9331.017	390.6895	0.7616	118127.7	143749.4	9721.707	134027.7	140620	2.7971
151.1266	160.8767	88.0711		7.525	2.9452	3.6504	11972.58	4861.45	1311.374	2299.853	4264.899	833	11728.13	284.5912	0.9981	112253	140165.8	12012.72	128153	136298.9	3.59
146.766	132.4554	86.8693		6.5046	2.6557	3.2234	11523.36	5090.665	1334.141	1963.062	3900.497	833	10726.36	283.7706	0.9999	115170.6	142080.8	11010.13	131070.6	138536.6	3.1794
143.0686	176.2527	87.171		7.1388	3.1183	3.9057	10938.52	4953.261	1320.493	1393.365	4036.402	833	11100.11	285.2525	1	111310.5	138595.9	11385.36	127210.5	139309.9	3.841
156.2223	94.5302	87.3095		4.9763	2.1487	2.4758	12387.21	5421.805	1367.03	1994.113	4276.881	925.3816	11746.41	281.986	0.9616	118461	146389.4	12028.39	134361	142517.5	2.4489
142.6618	136.2546	87.1504		6.9116	2.6797	3.2588	11528.3	5002.49	1325.383	1740.92	4224.503	833	11571.46	283.7431	0.9067	114428	142183.2	11855.2	130328	138367	3.2105
140.3333	120.5113	86.8753		6.3469	2.5323	3.0413	10937.15	5124.835	1337.534	1680.892	3558.893	833	9765.705	283.474	0.9417	116769.8	142719	10049.18	132669.8	139484.2	3.0055
146.1816	121.406	87.5816		6.4556	2.5358	3.0465	11318.75	5101.294	1335.196	1944.602	3702.657	833	10110.42	283.4449	0.8533	116515.2	142809.1	10393.87	132415.2	139463.3	3.0093
156.1805	150.2208	87.1332		5.1504	2.8183	3.4633	12461.88	5384.09	1363.284	1946.383	4456.446	909.6733	12255.23	284.1052	1	112898.3	141337.7	12539.33	128798.3	137301.3	3.406
157.1098	128.9319	86.3423		6.4756	2.5799	3.1117	12381.39	5096.949	1334.765	2284.236	4430.437	833	12168.74	283.3437	0.9628	114813.8	143165.9	12452.08	130713.8	139157.6	3.0654
157.7023	115.0143	86.7803		5.278	2.4171	2.8716	12443.22	5356.431	1360.537	2114.96	4311.14	898.1536	11855.64	282.8508	1	116291.2	144329.7	12138.49	132191.2	140422.3	2.8333
152.6709	101.61	87.0415		5.5627	2.2785	2.6671	11885.88	5294.738	1354.41	2269.024	3693.25	872.4584	10063.95	282							

TABLE 2

yield draws	crude oil price draws	corn acres draws	96kg mandate	96kg mandate																	
				Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
153.0866	178.4734	86.9035		7.7265	3.0936	3.8694	12039.43	4825.934	1307.847	2050.268	4620.381	833	12706.05	284.9289	1	110461	139352	12990.98	126361	135170.2	3.7971
134.8048	148.006	86.884		7.6152	2.8487	3.5079	10443.27	4850.05	1310.242	1322.778	3725.199	833	10137.13	284.493	0.801	114045.8	140367.4	10421.63	129945.8	137012.7	3.459
143.9988	125.8027	87.1361		6.3778	2.5718	3.0997	11537.05	5118.111	1336.867	1880.533	3966.543	833	10904.42	283.4702	0.9869	115709.7	142797.6	11187.89	131609.7	139196.2	3.0583
151.3318	150.3679	87.1185		5.666	2.3605	2.7881	11975.96	5272.357	1352.187	1773.537	4312.745	863.1367	11854.36	282.6664	0.9823	116733.9	144770.9	12137.03	132633.9	140864	2.7523
139.5582	121.3375	87.3219		6.9584	2.6549	3.0719	10928.47	4992.344	1324.375	2039.827	3336.922	833	9046.813	482.0063	0.749	116912.7	142341.5	9528.82	132812.7	139274.2	3.044
155.2992	130.5855	86.6411		5.0157	2.6064	3.1507	12363.42	5413.266	1366.182	1943.132	4317.014	921.8255	11871.79	283.4661	1	114802.5	142857.7	12155.26	130702.5	138945	3.1044
139.295	145.321	85.381		7.6044	2.8697	3.4842	10908.98	4852.372	1310.473	2042.274	3468.859	833	9491.99	356.7459	0.8885	114532.3	140281	9848.736	130432.3	137110.7	3.441
157.6188	158.1128	86.5202		5.6495	2.8937	3.5745	12436.03	5275.936	1352.542	1970.23	4570.694	864.6275	12569.41	284.3057	1	112105.4	140859.2	12853.72	128005.4	136721.5	3.5124
145.482	118.427	87.1469		6.2095	2.4902	2.9792	11355.5	5154.611	1340.492	1804.349	3821.047	833	10481.46	283.2485	0.9346	116627.9	143292.6	10764.71	132527.9	139827.4	2.9425
145.8628	100.8317	86.8639		5.472	2.2595	2.639	11665.41	5314.402	1356.363	1870.73	3841.269	880.6486	10490.04	282.4771	0.8551	118430	145102.5	10772.52	134330	141634.8	2.6109
143.7781	106.887	87.6798		5.8042	2.3539	2.7782	11378.76	5242.427	1349.214	1925.915	3608.531	850.6708	9857.127	282.8608	0.8595	118109.5	144149.5	10139.99	134009.5	140885.4	2.7484
150.191	120.7619	84.7517		6.1964	2.5164	3.0179	11725.93	5157.439	1340.773	2130.27	3862.445	833	10617.42	283.3201	0.9845	116332.9	143133.6	10900.75	132232.9	139624.7	2.9797
137.8234	119.2388	87.9315		6.4311	2.516	3.0172	11022.33	5106.605	1335.724	1748.885	3596.112	833	9779.768	283.4171	0.792	116888.9	142852	10063.19	132788.9	139612.7	2.9819
154.354	124.3547	87.9899		6.4014	2.5536	3.0728	12477.41	5113.039	1336.363	2811.931	3981.079	833	10930.3	283.4067	0.9538	115835.2	142948.9	11213.71	131735.2	139339.3	3.0321
147.9439	153.1497	87.491		5.8432	2.8614	3.5268	11924.16	5233.968	1348.374	1797.728	4294.947	847.1475	11811.11	284.3059	1	112852.5	140847.9	12095.41	128752.5	136954.4	3.4697
140.9288	107.4324	88.4675		6.5819	2.5423	2.8156	11434.54	5073.918	1332.477	2618.774	3174.371	833	8575.132	601.0097	0.7018	118492.1	143568.2	9176.142	134392.1	140614.4	2.7981
138.9509	120.689	86.9357		7.4381	2.7768	3.0761	10670.61	4888.42	1314.053	2162.457	3070.677	833	8285.588	714.4121	0.6875	117214.5	142114.5	9000	133114.5	139202.8	3.0571
154.2914	101.4516	86.5274		5.3153	2.2574	2.636	12084.45	5348.346	1359.734	2069.035	4010.545	894.786	11022.95	282.4153	0.9803	118092.4	145297.8	11305.37	133992.4	141658.6	2.6065
153.6589	151.0544	87.9551		5.2192	2.8425	3.499	12353.45	5369.172	1361.803	2073.236	4243.78	903.4603	11670.4	284.2634	1	113091.8	140946.5	11954.66	128991.8	137098.3	3.4433
155.4579	101.7038	86.9233		5.3856	2.2659	2.6485	12317.79	5333.115	1358.221	2416.57	3919.441	888.4425	10764.4	282.4702	0.9609	118197.4	145144.2	11046.87	134097.4	141588.2	2.6194
141.3114	201.4503	87.8514		6.8104	3.3452	4.2403	11329.38	5024.417	1327.561	1593.521	4148.877	833	11409.41	285.9512	1	109340.6	136936	11695.36	125240.6	133171.2	4.1639
152.2153	188.0704	86.8178		3.4556	3.2736	4.0816	12087.9	5751.284	1399.755	1503.894	3968.354	1062.61	10912.98	285.6765	1	110500.1	137598.7	11198.65	126400.1	133993.9	4.0129
145.5166	148.1164	87.7528		5.634	2.8236	3.471	11614.34	5279.303	1352.877	1655.293	4058.834	866.0297	11161.8	284.2702	1	113572.2	140918.3	11446.07	129472.2	137233.8	3.4184
142.1062	110.5498	87.257		6.7701	2.6013	2.8786	11181.13	5033.141	1328.427	2454.733	3129.827	833	8481.068	632.8358	0.7422	118192	143205.9	9113.904	134092	140272.1	2.8609
151.8335	123.9534	89.0331		5.9613	2.3038	3.0382	12203.55	5208.377	1345.832	2140.058	4270.797	836.4889	11744.69	283.2324	1	115482	143409.9	12027.92	131382	139538.1	2.9956
154.2069	118.7585	87.6413		4.5131	2.4781	2.9614	12330.53	5522.167	1376.999	1983.355	4078.828	967.1827	11216.78	283.1233	1	116237.1	143637	11499.91	132137.1	139935.2	2.9227
142.1559	129.2446	87.7782		6.7635	2.6225	3.1744	11434.9	5034.568	1328.569	1986.635	3850.124	833	10513.27	283.6865	0.8536	115570.7	142267.6	10796.95	131470.7	138792.1	3.1325
149.4234	109.0199	87.3668		5.71	2.3466	2.7676	11805.12	5262.358	1351.241	1713.133	4216.738	859.1707	11564.95	282.6522	0.9312	117034.6	144782.2	11847.6	132934.6	140968.4	2.7331
146.026	106.7978	86.9989		5.6981	2.3388	2.756	11456.77	5265.407	1351.496	1733.509	3844.112	860.2421	10535.61	282.737	0.9175	117778.4	144496.7	10818.34	133678.4	141014.3	2.7247
154.6105	116.7377	87.0731		5.216	2.4685	2.9472	11717.18	5369.863	1361.871	1861.987	3817.716	903.7479	10488.72	283.174	1	116786.7	143468.6	10781.9	132686.7	139997.9	2.9112
155.8775	114.6383	87.105		5.5128	2.3979	2.8433	12224.83	5305.564	1355.485	1730.584	4554.234	876.9675	12524.15	282.7141	1	115998.7	144705.5	12806.86	131898.7	140583	2.8039
153.3068	158.5744	87.2507		6.8632	2.9463	3.6519	11911.06	5012.977	1326.424	2411.638	3925.02	833	10793.81	284.7274	1	112853.8	139832.4	11078.53	128753.8	136266.2	3.596
142.9976	121.1956	85.7467		6.6201	2.5683	3.0589	11141.54	5065.652	1331.656	1994.171	3515.062	833	9557.686	330.4326	0.7895	116773.6	142561.8	9888.118	132673.6	139378.8	3.0248
139.2058	147.5301	89.0354		6.8438	2.809	3.4495	11398.29	5017.18	1326.842	1645.444	4173.824	833	11478.02	284.1796	1	113479.2	141141.4	11762.2	129379.2	137355.1	3.3962
144.2456	134.851	86.5035		6.5706	2.6865	3.2688	11200.29	5076.381	1332.722	1695.126	3861.06	833	10617.91	283.8868	1	115000.9	141802.7	10901.8	130900.9	138293.4	3.224
146.2463	149.2815	88.4388		6.7407	2.8046	3.4431	11866.31	5039.522	1329.061	1757.015	4505.717	833	12390.72	284.0428	1	112916.2	141491	12674.77	128816.2	137410.9	3.3859
155.4158	111.1617	87.432		5.2025	2.374	2.8079	12194.49	5372.793	1362.162	1941.607	4210.955	904.9684	11580.13	282.7402	1	116810.7	144573.5	11862.87	132710.7	140754.9	2.7723
147.0805	124.1371	87.569		6.3491	2.558	3.0793	11532.41	5124.362	1337.487	1971.111	3864.449	833	10622.03	283.5481	0.982	116004.1	142809.6	10905.48	131904.1	139299.1	3.0394
134.927	118.1263	87.3083		7.7047	2.8478	3.0414	10180.7	4830.653	1308.315	1800.674	3006.054	833	8101.321	898.679	0.6724	117674.5	142574.5	9000	133574.5	139355.2	3.0292
145.8087	145.7776	87.1813		7.1694	2.7893	3.4205	11499.04	4946.625	1319.834	1816.274	4181.305	833	11490.45	284.1134	0.9759	113624.7	141299.2	11774.57	129524.7	137509	3.3679
139.3367	88.7155	86.7258		5.7142	2.3023	2.4344	10853.2	5261.931	1351.151	1883.455	3095.871	858.7941	8363.983	636.017	0.7032	120679	145579	9000	136579	142641	2.4262
135.1846	102.1689	88.2718		5.6465	2.3049	2.6899	10848.07	5276.595	1352.608	1418.178	3533.784	864.902	9639.035	303.7608	0.8366	118706	145458.8	9942.796	134606	141348.2	2.6634
141.4878	123.8824	87.6001		6.4815	2.5596	3.0816	11090.87	5095.683	1334.639	1624.023	3801.522	833	10416.05	283.4881	0.9124	116127.6	142727.1	10699.53	132027.6	139282.9	3.0424
156.6662	71.7701	88.269		3.9685	1.84	2.0204	12452.02	5640.156	1388.718	2288.224	3716.599	1016.325	10163.52	281.1018	0.8777	121939.4	148284.1	10444.62	137839.4	144921.9	2.0077
152.5145	148.3502	85.6827		5.5017	2.8282	3.4778	11655.19	5307.972	1355.724	1681.86	4029.667	877.9705	11081.59	284.2964	1	113588.4	140854.3	11365.88	129488.4	137195.6	3.4254
138.3235	86.0416	86.0984		5.7995	2.3231	2.3845	10567.79	5243.439	1349.315	1660.452	3061.497	851.0922	8257.572	742.4279	0.6826	121163.1	146063.1	9000			

TABLE 2

yield draws	crude oil price draws	corn acres draws	9bg mandate	9bg mandate													Total fuel demand	Fuel price			
				Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply			Total fuel volume	Total ethanol demand	Total gas supply
139.6054	112.0974	88.2769		6.2669	2.4597	2.8882	11038.85	5142.179	1339.257	1813.044	3509.368	833	9501.996	344.0755	0.7317	117707	143453.1	9846.071	133607	140283.6	2.8588
140.6591	102.1533	86.4814		5.9893	2.3942	2.7009	10842.11	5202.31	1345.23	1733.415	3325.195	833.9622	9048.485	463.4419	0.8008	118904.1	144316	9511.927	134804.1	141254.1	2.6807
137.9038	100.1616	86.4741		5.7697	2.3425	2.6576	10885.45	5249.89	1349.955	1658.787	3371.04	853.7793	9203.716	419.7839	0.8513	119068.9	144592.4	9623.5	134968.9	141494.5	2.6366
143.7454	124.4187	87.2003		6.8364	2.6354	3.1214	11472.35	5018.771	1327	2442.591	3448.99	833	9398.513	378.9108	0.8216	116504.8	142182.2	9777.424	132404.8	139034.9	3.0879
139.3806	136.1957	85.0902		7.4662	2.8153	3.3352	10795.5	4882.318	1313.447	1993.148	3371.59	833	9195.836	447.327	0.8352	115442	140985.2	9643.163	131342	137881.1	3.2997
152.9701	117.9223	87.2013		6.1646	2.4741	2.9556	12020.33	5164.327	1341.457	2295.923	3983.625	833	10922.57	283.144	0.9256	116462.5	143568.2	11205.72	132362.5	139961.1	2.918
152.6907	115.5292	88.4136		5.8544	2.4214	2.878	12161.18	5231.541	1348.133	1985.558	4347.81	846.1367	11953.06	282.8541	0.9882	116192.7	144328.6	12235.91	132092.7	140389.9	2.8393
158.4476	95.2051	88.1099		5.0604	2.1638	2.498	12783.48	5403.581	1365.22	2524.52	4170.368	917.7914	11441.74	282.065	0.9383	118546	146169.8	11723.81	134446	142395.9	2.4712
146.3053	99.5454	88.5758		5.5062	2.2768	2.6378	11601.03	5306.998	1355.627	2156.481	3502.358	877.5646	9584.355	317.8968	0.8898	119007.8	144810.1	9902.252	134907.8	141622.5	2.6131
147.7289	130.0816	87.7267		5.9033	2.5983	3.1389	11891.49	5220.957	1347.082	1729.941	4349.777	841.7286	11961.89	283.4288	1	114806.1	142951.4	12245.32	130706.1	139009.7	3.0926
145.0374	159.5035	85.8849		6.7275	2.9482	3.6548	11400.55	5042.37	1329.344	1762.603	4031.23	833	11085.89	284.6924	1	112648.2	139918.8	11370.58	128548.2	136258.6	3.5974
141.0599	155.5504	87.2628		7.4297	2.8927	3.5729	11309.25	4890.233	1314.233	1652.025	4217.755	833	11597.61	284.4377	0.9947	112747.9	140530	11882.05	128647.9	136705.1	3.5154
158.5449	136.9535	86.6691		5.367	2.6839	3.2651	12751.32	5337.152	1358.622	2499.207	4264.215	890.1238	11726.59	283.7373	1	114292.9	142203.2	12010.33	130192	138337.1	3.216
144.8348	88.1199	87.0354		5.3836	2.23	2.4135	11401.2	5333.55	1358.265	2209.84	3208.919	888.6236	8749.661	522.7931	0.8308	120586.5	145759	9272.455	136486.5	142774.2	2.4018
148.9187	150.345	87.7991		6.558	2.8457	3.5036	11653.63	5079.106	1332.992	1914.402	4092.133	833	11253.37	284.3306	1	113340	140777.7	11537.7	129240	137063.7	3.4496
147.8147	89.085	88.1574		4.3206	2.1009	2.4051	11981.49	5563.876	1381.141	1955.766	3694.152	954.5541	10158.92	281.9784	1	119894.4	146235.3	10440.9	135794.4	142874.4	2.3834
144.7099	145.0789	87.0076		6.1658	2.7886	3.4193	11585.2	5164.07	1341.431	1766.281	4078.419	833	11215.66	284.1474	1	113810.7	141210.5	11499.8	129710.7	137508.7	3.368
149.1324	134.2893	86.6983		5.6038	2.6714	3.2465	11840.5	5285.843	1353.526	1940.758	3989.615	868.7538	10971.44	283.7918	1	114886.9	142042.1	11255.24	130786.9	138419.1	3.2009
138.3218	79.4491	87.0136		6.1454	2.4106	2.263	10807.62	5168.503	1341.872	2109.171	2953.076	833	7926.524	1073.476	0.6242	122530.5	147430.5	9000	138430.5	143481.2	2.2721
146.263	110.1758	86.7564		5.9145	2.385	2.8241	11699.75	5218.535	1346.841	2065.464	3826.196	840.7197	10451.8	282.9004	0.8596	117471.7	144106.5	10734.7	133371.8	140651	2.7914
144.5287	106.0564	86.854		5.7243	2.3379	2.7547	11465.78	5259.732	1350.932	1905.57	3689.676	857.8755	10095.61	282.7813	0.8875	118076.8	144355.2	10378.39	133976.8	141014.4	2.7247
141.9328	97.8372	86.7894		5.9289	2.3726	2.618	1146.98	5215.395	1346.529	2111.931	3231.71	839.4128	8777.42	530.8216	0.7738	119469.9	144678.2	9308.242	135369.9	141681.8	2.6022
156.6637	134.1412	88.1578		5.7996	2.6444	3.2068	12555.52	5243.421	1349.313	2339.22	4370.48	851.0846	12018.83	283.5717	1	114409.2	142611.6	12302.4	130309.2	138651.5	3.1583
149.0586	123.9148	86.579		6.4919	2.5599	3.082	11556.59	5093.417	1334.414	2089.057	3804.705	833	10420.15	283.4886	0.9042	116122.5	142726.1	10703.63	132022.5	139280.6	3.0428
154.3349	118.0101	85.604		4.6461	2.4818	2.9669	11915.85	5493.351	1374.137	1828.295	3862.884	955.1803	10622.93	283.2042	1	116600	143406.2	10906.14	132500	139895.5	2.93
154.0394	110.1509	86.1064		5.8491	2.3697	2.8016	12061.22	5232.698	1348.248	2148.434	4083.224	846.6188	11163.16	282.7717	0.8733	117120.2	144466.2	11445.93	133020.2	140781.7	2.7674
153.7685	168.5405	87.7867		4.9169	3.018	3.7578	12329.36	5434.678	1368.309	1854.786	4338.844	930.7432	11931.82	284.7993	1	111552.9	139669.5	12216.62	127452.9	135737	3.6931
141.1154	110.0836	87.0425		6.0752	2.4263	2.8484	11099.63	5183.705	1343.382	1839.518	3498.029	833	9544.717	331.4065	0.8418	117901.5	143677.6	9876.123	133801.5	140498.5	2.8194
152.9521	124.3389	88.4075		6.2078	2.5444	3.0592	11964.36	5154.97	1340.528	2115.207	4118.657	833	11325.87	283.3289	0.9976	115646.8	143156	11609.2	131546.8	139419	3.0175
153.7199	104.8188	87.1104		5.5982	2.3205	2.729	12026.98	5287.05	1353.646	2421.402	3693.623	869.2564	10137.76	282.7182	0.9466	118185.6	144506.1	10420.47	134085.6	141151.8	2.6995
154.3563	217.878	86.9891		6.0953	3.4555	4.403	12103.81	5179.342	1342.948	1839.843	4506.675	833	12393.36	286.1448	1	107849.9	136429.4	12679.51	123749.9	132347.9	4.315
144.6726	100.6724	86.6442		5.4683	2.2696	2.654	11511.53	5315.201	1356.442	1955.231	3601.672	880.9813	9863.846	282.5757	0.9037	118766.4	144812.8	10146.42	134666.4	141546.7	2.627
148.8125	135.8514	87.2318		5.7975	2.6872	3.2699	11936.71	5243.867	1349.357	2065.637	4024.576	851.2707	11067.59	283.8321	1	114699.6	141951	11351.42	130599.6	138297	3.2233
138.2917	137.295	87.476		7.0572	2.7206	3.3191	10946.44	4970.942	1322.249	1626.086	3792.162	833	10386.69	284.0304	0.9058	114885.5	141456.2	10670.72	130785.5	138021.3	3.2739
147.7773	115.5042	87.4503		6.101	2.4611	2.9363	11793.31	5178.124	1342.827	2350.115	3687.247	833	10116.7	283.1929	0.9392	117097.1	143397	10399.89	132997.1	140049.2	2.9018
140.2933	134.5045	86.3519		6.9958	2.7027	3.2926	11259.88	4984.248	1323.571	2147.178	3569.882	833	9777.074	284.0486	0.9043	115425.9	141387.1	10061.12	131325.9	138148.4	3.2506
143.5982	84.1123	87.5732		5.9285	2.3704	2.3522	11404.28	5215.483	1346.538	2607.446	2993.365	839.4487	8122.589	877.4113	0.761	121609.4	146509.4	9000	137509.4	143038.4	2.3533
144.2667	149.4002	86.9732		6.2616	2.8374	3.4914	11413.18	5143.311	1339.37	1632.89	4062.611	833	11172.18	284.3145	1	113457.3	140813.8	11456.5	129357.3	137125.9	3.4382
137.2547	143.0886	86.7746		7.4165	2.7958	3.4298	10854.36	4893.096	1314.517	1724.139	3687.606	833	10042.53	284.3278	0.8123	114522.5	140749.3	10326.85	130422.5	137425.1	3.3833
152.4062	140.6997	86.5822		6.1806	2.7122	3.3069	11859.71	5160.869	1341.113	1649.632	4473.095	833	12301.02	283.756	1	113694.6	142179.4	12584.77	129594.6	138128.3	3.2543
143.1845	126.4075	87.143		6.493	2.5898	3.1261	11304.23	5093.184	1334.391	1839.615	3802.039	833	10445.94	283.5855	0.9702	115871.3	142500.8	10729.53	131771.3	139046.9	3.0857
155.9623	116.0067	86.9636		4.1875	2.4491	2.9187	12377.78	5592.71	1384.005	2016.981	3985.523	996.5638	10960.19	283.0569	1	116633.2	143776.4	11243.25	132533.2	140157.2	2.882
146.8215	137.1644	87.2318		6.2967	2.6979	3.2856	11592.72	5135.718	1338.615	1790.767	4092.623	833	11254.72	283.8433	1	114493.7	141932.2	11538.56	130393.7	138218	3.2378
153.2937	123.0707	87.9292		3.6277	2.5375	3.049	12219.54	5713.998	1396.052	1679.387	3981.021	1047.08	10947.83	283.3511	1	115949.8	143081	11231.18	131849.8	139465.7	3.0089
146.8946	147.4334	86.2952		7.3468	2.8169	3.4612	11503.76	4908.183	1316.016	1988.692	4055.87	833	11128.43	284.2527	0.9398	113646.2	140958.9	11412.68	129546.2	137285.2	3.409
142.6269	143.0032	87.7028		7.0391	2.7852	3.4143	11341.61	4974.854	1322.638	2018.652	3790.465	833	10423.2	284.2417	0.9968	114355.7	140963.2	10			

TABLE 2

yield draws	crude oil price draws	corn acres draws	9bgb mandate	9bgb mandate																	
				Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
148.9055	132.2753	86.8414		6.6907	2.6429	3.2045	11668.26	5050.344	1330.136	1984.569	4068.216	833	11174.74	283.672	0.9647	114976.2	142334.6	11458.41	130876.2	138646.1	3.1593
145.8315	86.94	87.9889		5.2602	2.1924	2.3854	11751.01	5360.294	1360.921	2464.525	3263.504	899.7625	8888.259	486.4777	0.8135	120673.9	145948.7	9374.736	136573.9	142930.9	2.373
153.7325	186.1876	87.0319		6.0221	3.2094	4.0399	12056.46	5195.208	1344.524	2184.755	4096.977	833	11266.69	285.5271	1	110492.2	137944.4	11552.22	126392.2	134225.8	3.9704
156.7696	146.2856	86.8464		3.5737	2.8097	3.4506	12618.14	5725.692	1397.213	2073.509	3967.777	1051.951	10911.39	284.2581	1	113844.3	140940	11195.65	129744.3	137336.1	3.3996
150.7935	147.3394	87.7322		6.8686	2.7922	3.4248	12181.9	5011.805	1326.308	2226.403	4382.386	833	12051.56	284.0479	1	113234.9	141470.5	12335.61	129134.9	137499.7	3.3696
140.6209	196.8901	87.6778		7.0052	3.3082	4.1856	11301.28	4982.198	1323.367	1658.736	4101.981	833	11280.45	285.8504	1	109712.7	137179	11566.3	125612.7	133455.8	4.1117
151.9794	124.1393	86.1247		5.7173	2.5495	3.0668	11936.68	5261.244	1351.083	2065.736	3998.115	858.5079	10994.82	283.3853	1	115824.8	143003	11278.2	131724.8	139372.6	3.026
143.0377	117.3491	87.9958		6.3135	2.4835	2.9694	11314.66	5132.072	1338.253	1871.791	3737.546	833	10165.78	283.2627	0.794	116888.6	143237.7	10449.05	132788.6	139874.1	2.9339
153.5044	141.1652	87.0917		5.3962	2.7222	3.3216	12407.46	5330.814	1357.993	2025.457	4403.709	887.484	12110.2	283.813	1	113742	142036	12394.02	129642	138046.3	3.2693
156.6123	105.1128	86.1591		5.3725	2.3072	2.7094	12164.51	5335.953	1358.503	2182.931	3995.495	889.6246	10987.5	282.5838	0.9992	117726.1	144896.2	11270.08	133626.1	141268.4	2.6781
154.6597	170.5682	86.9873		7.3773	3.038	3.7873	11963.91	4901.581	1315.36	2168.792	4343.175	833	11943.73	284.8626	1	111389.3	139517.9	12228.6	127289.3	135581.5	3.7216
146.8763	116.8011	89.2287		6.0615	2.4487	2.9181	11846.7	5186.666	1343.676	1912.271	4169.09	833	11437.17	283.0014	0.9363	116321	143941.2	11720.17	132221	140168.5	2.8799
155.3237	116.7506	88.301		3.5456	2.4819	2.9671	12597.34	5731.795	1397.82	2415.209	3596.203	1054.493	9889.57	283.2894	1	117083.3	143156.2	10172.86	132983.3	139881.5	2.9326
154.3114	128.1341	87.2292		6.3271	2.5731	3.1016	12207.12	5129.123	1337.96	2120.95	4384.088	833	12055.3	283.3354	0.9958	114941.5	143180.2	12338.63	130841.5	139208.4	3.0561
146.5669	99.102	87.4971		5.7083	2.3154	2.6344	11314.28	5263.203	1351.278	2026.345	3412.135	859.3239	9284.097	397.5363	0.7993	119157.6	144739.3	9681.634	135057.6	141622.7	2.6131
136.7217	124.2419	89.1753		7.0193	2.6876	3.1248	10958.67	4979.15	1323.065	2092.211	3329.246	833	9074.715	276.1131	0.8257	116617.6	142068.4	9550.828	132517.6	138994	3.0954
153.5487	73.3212	88.0706		4.021	1.8611	2.0515	12289.31	5628.794	1387.589	2075.055	3784.279	1011.593	10368.52	281.1563	0.9119	121636.1	148185.8	10649.68	137536.1	144757.6	2.0378
154.0896	120.7748	87.4743		4.5753	2.4977	2.9904	12111.7	5508.689	1375.66	1696.586	4167.196	961.5689	11459.8	283.1596	1	115923.4	143566.4	11742.96	131823.4	139786.3	2.9501
151.4416	126.5051	87.3864		4.976	2.5679	3.094	11786.12	5421.868	1367.037	1510.061	4159.747	925.4081	11439.31	283.3929	1	115387.5	143010.2	11722.7	131287.5	139236.7	3.0509
148.3404	173.0497	86.4082		6.1547	3.0913	3.8658	11660.2	5166.488	1341.671	1940.877	3976.16	833	10934.44	285.1881	1	111629.1	138748.8	11219.63	127529.1	135137.2	3.8031
137.345	194.7451	87.2952		8.3288	3.2852	4.1518	10733.29	4695.43	1294.885	1365.113	4142.86	833	11392.87	285.7565	1	109819.4	137398.1	11678.62	125719.4	133638.7	4.0781
155.9044	76.5584	87.5023		4.4112	1.9453	2.1436	12229.92	5544.236	1379.191	2409.228	3518.897	976.3741	9532.115	323.7692	0.7377	121670.3	147426.2	9855.884	137570.3	144253.6	2.1303
142.3457	132.1944	85.5237		6.797	2.6585	3.2275	11065.88	5027.321	1327.849	1656.096	3819.615	833	10478.54	283.8111	0.9365	115311.4	141973.8	10762.35	131211.4	138509.4	3.1844
149.9631	174.8505	86.4941		6.0763	3.1005	3.8794	12108.8	5183.459	1343.357	2260.193	4086.791	833	11238.68	285.1727	1	111359.6	138783.4	11523.85	127259.6	135073.9	3.8147
149.664	102.4947	87.2496		5.4962	2.2941	2.6901	11739.35	5282.498	1353.194	2206.487	3627.807	867.3603	9884.856	282.6562	0.8201	118560.2	144627.7	10167.51	134460.2	141354.8	2.6622
143.4146	114.5652	88.2046		5.963	2.4302	2.8908	11528.52	5208.022	1345.797	1735.188	4001.175	836.3413	10987.58	282.9912	0.9582	116763	143933.6	11270.57	132663	140305.6	2.8548
148.4654	171.6209	88.4131		6.6583	3.0386	3.7882	11866.33	5057.375	1330.834	1772.538	4470.581	833	12294.1	284.8128	1	111157	139635.9	12578.92	127057	135586.8	3.7206
142.6817	106.1077	85.4434		6.192	2.4408	2.7789	10957.77	5158.397	1340.868	1863.009	3360.499	833	9106.612	245.3132	0.7429	118460.1	143918	9557.925	134360.1	140841.3	2.7565
149.0236	73.1486	87.6858		4.5405	1.982	2.0772	12030.41	5516.227	1376.409	2520.558	3250.107	964.7085	8808.548	483.0291	0.7445	122375.3	147566.9	9291.578	138275.3	144575.9	2.0712
155.5503	140.7484	87.1547		5.4425	2.7392	3.3466	12401.71	5330.779	1356.997	2351.358	4087.258	883.3091	11239.96	283.9815	1	114180.2	141604.2	11523.94	130080.2	137894.6	3.2972
146.7938	118.6916	87.902		6.4415	2.5184	3.01	11458.68	5104.336	1335.498	2228.164	3555.687	833	9668.011	297.5918	0.7893	116988.6	142854.2	9965.603	132888.6	139646.3	2.9757
152.3841	110.2233	87.8664		5.376	2.3486	2.7705	12199.86	5335.205	1358.429	1774.039	4440.876	889.313	12212.41	282.5888	1	116590	144985	12495	132490	140962.9	2.7342
153.8192	126.3994	86.5954		6.0087	2.5452	3.0605	12096.41	5198.122	1344.814	1821.35	4947.128	833	12367.1	283.2076	1	114953.7	143504	12650.31	130853.7	139431.8	3.0151
135.2764	147.4693	87.6946		7.9528	2.9245	3.5235	10525.19	4776.899	1302.976	1762.162	3448.151	833	9324.684	411.8565	0.7155	114385.8	140022.4	9736.541	130285.8	136888.2	3.4818
147.3177	105.7155	89.1259		5.1396	2.3209	2.7297	12027.99	5386.41	1363.515	2072.924	3892.497	910.6398	10704.37	282.6595	1	117806.1	144693.1	10987.03	133706.1	141156.4	2.6986
152.7607	112.9546	87.5582		5.1478	2.405	2.8536	12477.93	5384.635	1363.339	2299.89	4075.7	909.900	11208.18	282.8833	1	116817.3	144208.3	11489.77	132717.3	140506.6	2.8179
143.278	140.3393	87.7094		5.438	2.743	3.3521	11499.85	5321.77	1357.095	1571.48	3963.789	863.7173	10900.42	284.0383	1	114373.3	141457.8	11184.46	130273.3	137857.5	3.304
151.3895	107.8396	88.6626		5.6003	2.34	2.7579	12044.78	5286.603	1353.602	2080.539	4052.964	889.107	11139.66	282.6764	0.9806	117367.8	144690.2	11422.34	133267.8	141013.3	2.7249
135.5419	124.284	85.6711		7.3578	2.7705	3.1357	10218.7	4905.814	1315.781	1600.899	3162.016	833	8586.899	623.2775	0.7718	116758.2	141868.4	9210.176	132658.2	138903.6	3.112
139.7169	78.9556	88.3157		4.8562	2.0739	2.2097	11500.15	5447.828	1369.615	2092.719	3251.769	936.2201	8833.395	487.3632	0.7761	121647.6	146868.4	9320.758	137547.6	143868.1	2.2011
150.9927	83.4129	87.4391		3.9814	1.9986	2.2543	12225.01	5637.36	1388.44	1677.831	4104.22	1015.161	11286.61	281.5357	1	119943.1	147411.2	11568.14	135843.1	143687.4	2.2342
145.2952	123.4715	86.0678		6.6636	2.58	3.0987	11227.44	5056.228	1330.72	2052.678	3552.812	833	9658.897	300.7455	0.7874	116520.4	142380.1	9959.642	132420.4	139174.1	3.0624
149.8274	151.0518	87.3802		6.1641	2.8606	3.5256	11727.54	5164.449	1341.469	1996.034	3990.587	833	10974.11	284.4182	1	113405.5	140564	11258.53	129305.5	136939.9	3.4723
151.9539	104.9244	86.2922		5.5656	2.3105	2.7143	12023.87	5294.119	1354.348	2202.987	3898.214	872.2007	10698.5	282.6255	0.945	117891.6	144772.8	10981.13	133791.6	141237.9	2.6837
145.4105	104.2494	86.5671		6.2183	2.447	2.746	11463.03	5152.692	1340.301	2449.84	3285.194	833	8897.907	506.8946	0.736	118727.5	144032.3	9404.802	134627.5	141004.9	2.7264
138.4168	107.1134	87.932		6.4368	2.508	2.8055	10560.79	5105.362	1335.6	1649.151	3235.682	833	8765.311	547.3392	0.7382	118464.2	143676.8	9312.651	1343		

TABLE 2

yield draws	crude oil price draws	corn acres draws	9bg mandate	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
139.2933	97.7769	87.9096		5.9878	2.381	2.618	11059.27	5202.648	1345.263	2054.431	3220.822	834.1027	8715.169	547.2602	0.7233	119498	144660.4	9262.429	135398	141678.8	2.6028
153.4879	166.7979	86.8701		5.3615	2.9991	3.73	12081.44	5338.345	1358.741	1736.417	4355.32	890.6207	11977.13	284.7313	1	111670.3	139832.2	12261.87	127570.3	135885.1	3.6659
145.1893	231.7618	87.2552		7.7799	3.5674	4.5682	11470.4	4814.348	1306.696	1599.865	4514.497	833	12414.87	286.5026	1	106966.2	135567.6	12701.37	122866.2	131479	4.4744
147.0058	139.6723	85.7791		7.1505	2.742	3.3506	11284.15	4950.733	1320.242	1892.59	3885.581	833	10633.56	284.0697	0.8906	114556.3	141373.9	10917.63	130456.3	137859.5	3.3036
150.667	100.5071	86.8748		5.456	2.2525	2.6288	12187.06	5317.874	1356.708	2336.98	3891.404	882.0944	10618.64	282.4407	0.8426	118399	145200.1	10901.08	134299	141691.1	2.6005
147.3853	96.7323	87.3008		5.3156	2.2137	2.5714	11794.67	5348.286	1359.728	2148.969	3640.929	894.7611	9937.003	282.3794	0.8456	119157.2	145276.6	10219.38	135057.2	141987	2.5462
148.071	146.2256	87.1487		6.0806	2.7866	3.4166	11751.78	5182.541	1343.266	1703.539	4287.439	833	11790.46	284.0646	1	113449.3	141423.8	12074.52	129349.3	137537	3.3628
146.3889	96.216	88.349		4.9687	2.193	2.541	11518.11	5423.448	1367.194	1529.076	3870.327	926.0659	10643.37	282.2398	0.9997	118849.3	145674.9	10925.6	134749.3	142157.9	2.5149
153.5682	125.8257	87.2027		5.9516	2.5354	3.0461	12199.3	5210.491	1346.042	1860.083	4543.311	837.3697	12494.11	283.1609	1	114946.2	143623.5	12777.27	130846.2	139510.5	3.0007
147.8641	83.2664	87.6044		5.0447	2.1289	2.3042	11741.88	5406.976	1365.558	2362.624	3285.521	919.2057	8935.244	469.7614	0.7923	121090.1	146395.1	9405.005	136990.1	143367.6	2.2929
154.0032	156.1308	87.9136		6.7095	2.8893	3.5679	12078.76	5046.267	1329.731	2119.558	4348.207	833	11957.57	284.3765	1	112539.5	140681.5	12241.95	128439.5	136740.8	3.5089
148.6612	117.5	87.0383		6.0967	2.4728	2.9536	11626.82	5179.055	1342.92	1959.822	3910.019	833	10740.68	283.1606	0.9657	116592.9	143516.7	11023.84	132492.9	139968.2	2.9167
144.2055	119.0385	87.9178		5.8106	2.5005	2.9945	11564.2	5241.027	1349.075	1953.625	3768.386	850.0875	10363.06	283.2968	1	116625.2	143171.6	10646.36	132525.2	139744.5	2.9577
147.0791	128.5288	86.9334		4.6512	2.6122	3.1592	11876.11	5492.233	1374.025	1803.745	3849.388	954.7148	10585.82	283.6432	1	115603.6	142373.1	10869.46	131503.6	138874.2	3.1174
146.6832	138.1092	87.5748		5.0828	2.7315	3.3351	11824.64	5398.722	1364.738	1987.884	3755.53	915.7676	10327.71	284.0745	1	114838.9	141350.7	10611.78	130738.9	137934.7	3.2898
144.4342	109.6524	87.6415		6.403	2.515	2.8518	11582.33	5112.688	1336.328	2616.441	3281.875	833	8945.89	499.7903	0.8262	118137.4	143483.1	9445.68	134037.4	140442.5	2.8296
147.2819	142.9233	88.0936		6.8785	2.7455	3.3559	11932.99	5009.66	1326.095	2009.982	4352.251	833	11968.4	283.907	0.9983	113653.7	141806	12252.31	129553.7	137862	3.3031
145.1623	109.1702	87.0908		6.2422	2.4516	2.8353	11079.09	5147.527	1339.788	1917.802	3438.976	833	9305.772	398.1143	0.7237	118072.7	143676.6	9703.886	133972.7	140552.9	2.8094
141.4162	176.3231	87.3357		6.7817	3.1157	3.9018	11477.04	5030.627	1328.177	1805.109	4078.122	833	11214.84	285.2265	1	111256.4	138656.5	11500.06	127156.4	134954.6	3.8366
144.0531	134.0357	87.8737		6.6291	2.6497	3.2147	11611.96	5063.699	1331.462	1709.501	4272.294	833	11746.18	283.6232	0.9903	114546.7	142476.5	12029.8	130446.7	138604.1	3.167
148.2518	130.7546	85.2388		6.5555	2.6342	3.1917	11405.62	5079.648	1333.046	1836.541	3921.383	833	10782.34	283.6921	0.9935	115302.1	142268.1	11066.03	131202.1	138705.9	3.1483
146.2887	71.3458	88.0588		4.4668	1.9659	2.037	11937.88	5532.197	1377.995	2454.738	3199.591	971.3601	8694.514	504.8006	0.7807	122648.4	147747.7	9199.314	138548.4	144786.5	2.0325
148.4727	179.7034	87.216		4.6573	3.1744	3.9883	11803.01	5490.924	1373.896	1825.481	3756.54	954.1698	10330.48	285.5572	1	111371	137887.1	10616.04	127271	134469.8	3.9256
146.3847	179.2161	88.0982		6.1638	3.1678	3.9785	11799.6	5164.514	1341.475	2278.974	3779.634	833	10394	285.5253	1	111381.6	137961.2	10679.52	127281.6	134523.4	3.9158
151.2043	96.9746	88.1803		5.3278	2.2128	2.5701	12099.66	5345.637	1359.465	2370.497	3728.407	893.6579	10160.01	282.3541	0.8217	119015.8	145358.2	10442.36	134915.8	141996.8	2.5444
144.3797	107.767	86.1255		5.6719	2.3443	2.7641	11302.82	5271.082	1352.06	1448.946	3966.127	862.6057	10888.84	282.7174	0.953	117501	144572.5	11171.56	133401	140976.4	2.7317
134.1981	92.7468	85.812		8.0272	2.9474	2.5934	10197.73	4760.783	1301.376	2197.641	2702.93	833	7315.76	1684.24	0.7268	121603.8	146503.8	9000	137503.8	141611.6	2.6151
151.0663	150.5593	85.6536		5.8753	2.8515	3.5121	11665.72	5227.012	1347.683	1801.057	4043.722	844.2505	11120.24	284.3679	1	113381.7	140686.3	11404.6	129281.7	137015.2	3.4585
147.814	95.0327	87.9451		5.5661	2.2691	2.5519	11780.18	5296.183	1354.553	2467.175	3387.209	873.0603	9201.357	416.1752	0.7762	119636.6	145154.1	9617.532	135536.6	142058.2	2.5332
143.6827	170.5213	87.0657		8.0899	3.074	3.8402	11281.08	4747.197	1300.026	2126.362	3872.498	833	10646.83	285.1737	0.9898	111951	138783	10932	127851	135264	3.7799
153.6486	128.0847	86.6843		5.2062	2.6035	3.1464	11948.57	5371.989	1362.082	2006.376	3901.485	904.6332	10729.08	283.5966	1	115577.4	142490.1	11012.68	131477.4	138945.1	3.1044
148.2154	113.6448	86.1833		5.5689	2.4197	2.8754	11570.77	5293.395	1354.276	1675.418	3973.783	871.8988	10927.91	282.9632	1	116884.5	143995.3	11210.87	132784.5	140386.6	2.8399
148.9523	144.5845	87.5082		5.8908	2.7632	3.3821	12062.51	5223.67	1347.351	1884.261	4362.367	842.8586	11996.51	283.9611	1	113496.7	141677.2	12280.47	129396.7	137724.1	3.3285

TABLE 2

yield draws	crude oil price draws	corn acres draws	96g mandate	96g mandate												Total ethanol demand	Total gas supply	Total fuel demand	Fuel price		
				Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running					Gasoline domestic supply	Total fuel volume
154.983	128.1956	87.5983		6.3388	2.59	3.1266	12262.53	5126.595	1337.709	2431.765	4131.46	833	11361.35	283.475	0.9989	115266.2	142811.1	11644.82	131166.2	139062.6	3.0828
153.789	149.3452	87.4082		4.706	2.8473	3.5059	12481.5	5480.359	1372.846	2360.695	3915.835	949.7694	10768.55	284.402	1	113644.3	140597.3	11052.95	129544.3	137039.3	3.4541
151.9295	85.8726	85.9022		4.6316	2.0336	2.3059	12034.17	5496.477	1374.447	1666.852	4137.907	956.4828	11335.2	281.6467	0.9082	119636.5	147153.3	11616.85	135536.5	143413.8	2.2844
152.4272	159.354	86.4574		4.9943	2.9606	3.673	11950.43	5417.908	1366.643	1997.457	3842.664	923.7585	10567.33	284.8075	1	112889.2	139641.4	10852.14	128789.2	136148.1	3.6176
149.7803	134.2462	88.3377		5.4435	2.6587	3.2278	12158.97	5320.565	1356.975	2022.835	4173.376	883.2152	11476.78	283.6863	1	114654	142314.4	11760.47	130554	138528.8	3.1808
143.3843	108.9103	87.1798		6.3665	2.4957	2.8362	11298.32	5120.592	1337.113	2292.403	3313.211	833	9002.9	482.9459	0.7802	118197.1	143582.9	9485.846	134097.1	140529.5	2.8137
139.2288	170.4465	86.8955		8.0062	3.0492	3.8037	10980.09	4765.316	1301.826	1494.264	4183.687	833	11502.31	284.9645	0.9896	111588.9	139276.2	11787.28	127488.9	135481.9	3.7399
153.5437	174.0728	87.4849		6.8182	3.0659	3.8285	12338.61	5022.726	1327.393	2323.039	4430.455	833	12183.75	284.9177	1	111016	139384.6	12468.67	126916	135371	3.7602
151.9356	135.8788	87.4296		6.1791	2.6596	3.2292	12008.17	5161.194	1341.146	1827.509	4443.327	833	12219.15	283.5958	1	114159.2	142561.9	12502.75	130059.2	138537.3	3.1792
145.1429	139.5772	88.6283		6.9627	2.7237	3.3237	11703.68	4991.424	1324.284	2029.127	4123.848	833	11329.3	283.9187	0.9685	114243	141756.3	11613.22	130143	138018	3.2745
155.5501	143.1082	86.0114		6.877	2.7356	3.3414	12112.11	5009.988	1326.127	2016.793	4524.198	833	12440.7	283.8135	0.9962	113420.7	142045.2	12724.52	129320.7	137949.2	3.2872
154.2464	173.3538	87.1587		4.5004	3.1031	3.8832	12310.17	5524.924	1377.272	2174.364	3863.283	968.3308	10624.03	285.2742	1	111738	138547.3	10909.3	127638	135035.6	3.8218
142.9881	189.2301	86.9935		5.6556	3.2235	4.0609	11456.58	5274.613	1352.411	1290.934	4272.549	864.0764	11749.51	285.4974	1	110069.6	138004.6	12035.01	125969.6	134130.6	3.9878
150.0368	111.6461	86.5388		5.8858	2.4124	2.8646	11602.36	5224.733	1347.457	2122.706	3662.162	843.3012	10060	283.0358	0.9662	117515.9	143758.9	10343.04	133415.9	140429.5	2.832
142.8926	84.4054	86.3542		5.3308	2.1907	2.3349	11282.96	5345	1359.402	2084.004	3199.164	893.3926	8613.119	549.837	0.6602	121074.4	146137.4	9162.956	136974.4	143187.8	2.3259
141.2781	109.5096	86.1775		5.9375	2.3908	2.8326	11321.33	5213.552	1346.346	1948.395	3572.394	838.6444	9756.731	282.9965	0.8567	117886.5	143826.2	10039.73	137876.5	140594.4	2.8018
147.9069	106.6737	86.1468		5.5162	2.3339	2.7488	11567.33	5304.824	1355.411	1740.564	3887.876	876.6591	10690.64	282.7043	0.9951	117713.4	144586.7	10973.35	133613.4	141054.4	2.7174
144.9396	120.392	87.6474		6.3762	2.5159	3.0171	11464.88	5118.482	1336.903	1955.567	3818.926	833	10434.33	283.3399	0.8633	116457.7	143075.4	10717.67	132357.7	139625.3	2.9796
153.4371	89.7166	87.2667		3.9636	2.0956	2.3973	12249.03	5641.218	1388.823	1815.572	3984.652	1016.767	10957.79	281.886	1	119403	146542.7	11239.68	135303	142924.6	2.3742
148.5198	150.5557	87.0919		6.3258	2.8117	3.4536	11989.28	5129.411	1337.989	1688	4598.876	833	12646.91	284.0312	1	112693.3	141524.3	12930.95	128593.3	137361.8	3.3949
156.6002	86.1606	87.9714		3.1999	2.0445	2.322	12643.2	5806.689	1405.258	1962.338	3981.232	1085.686	10948.39	281.7177	1	119809.2	146939.4	11230.11	135709.2	143324.4	2.3008
143.4461	104.8839	87.6306		5.8252	2.3491	2.7452	11300.89	5237.864	1348.761	1939.629	3523.866	848.7702	9591.923	317.0516	0.8051	118431.7	144240.7	9908.975	134331.7	141051	2.718
138.5994	148.4978	86.6955		8.1069	2.981	3.5458	10610.47	4743.505	1299.66	1990.523	3341.779	833	9080.036	492.4681	0.7794	114359.1	139831.6	9572.504	130259.1	136750.2	3.5072
151.6181	93.7466	87.5281		5.1306	2.1664	2.5017	12137.78	5388.372	1363.71	2333.62	3738.624	911.4568	10219.08	282.1925	0.8701	119340.4	145741.7	10501.27	135240.2	142361.3	2.4776
149.0445	80.7419	89.0979		4.5199	1.9852	2.2345	11938.71	5520.687	1376.852	2101.958	3570.65	966.5662	9724.647	281.6275	0.8133	121093.3	146999.6	10006.27	136993.3	143778.6	2.2715
138.3663	124.0922	87.168		7.9619	2.9453	3.1543	10764.56	4774.931	1302.781	2489.59	2962.262	833	8060.305	939.6951	0.7998	117092.9	141992.9	9000	132992.9	138745.4	3.141
152.6395	154.7789	86.9009		5.652	2.9315	3.63	11896.01	5275.933	1352.488	2430.764	3570.96	864.4011	9820.146	284.8159	1	113604.4	139609.3	10104.96	129504.4	136356.5	3.5794
144.8951	75.9991	86.5277		5.6686	2.2951	2.1773	11424.95	5271.813	1352.133	2569.497	2966.593	862.9099	8038.493	981.5069	0.7418	122822.2	147722.2	9000	138722.2	143958.6	2.1845
141.8833	133.2211	88.0521		6.7447	2.6463	3.2096	11514.59	5038.649	1328.974	1723.21	4188.76	833	11494.54	283.6434	0.9425	114739	142417.2	11778.19	130639	138625.8	3.163
152.9902	111.0079	87.4056		5.795	2.3769	2.8122	12417.89	5244.42	1349.412	2435.49	4135.072	851.5007	11349.54	282.7749	0.9469	116940.8	144473.1	11632.31	132840.8	140728.6	2.7771
150.9446	146.0117	87.1018		7.3008	2.8021	3.4393	11745.59	4918.168	1317.008	2231.83	4043.583	833	11092.81	284.2084	0.9362	113785.6	141062.6	11377.01	129685.6	137400.3	3.3879
158.8906	109.4319	88.2468		4.5208	2.3497	2.7721	12547.62	5520.488	1376.832	2037.02	4244.8	966.4834	11673.2	282.6506	1	1169338.7	144794.6	11955.85	132838.7	140946	2.7373
138.052	82.5137	88.3043		6.3392	2.4695	2.3327	11043.83	5126.511	1337.701	2409.804	2934.816	833	7903.683	1096.317	0.6637	122150.9	147050.9	9000	138050.9	143105.2	2.3411
138.8402	164.9043	87.9209		7.2692	3.014	3.7518	11186.99	4924.998	1317.686	1804.364	3904.946	833	10738.61	284.9605	1	112360.3	139283.8	11023.57	128260.3	135735.3	3.6934
137.9838	114.2665	86.7903		6.546	2.5419	2.9365	10688.48	5081.706	1333.251	1659.061	3379.461	833	9168.734	440.5465	0.7587	117588.7	143097.9	9609.28	133488.7	140004.7	2.91
135.0128	164.4532	86.5123		7.886	2.9957	3.7248	10728.02	4791.361	1304.413	1308.723	4088.528	833	11235.29	284.8276	0.9754	112180.2	139600.3	11520.12	128080.2	135892	3.6646
151.1134	99.0098	86.4143		5.6162	2.2815	2.6284	11894.83	5283.161	1353.26	2483.514	3505.261	867.6366	9502.586	339.4507	0.7481	119093.8	144835.8	9842.037	134993.8	141667.7	2.6048
150.9599	159.496	86.6698		5.9513	2.952	3.6604	11782.83	4993.878	1324.527	2250.677	3987.744	833	10941.55	284.7255	1	112712.5	139838.8	11226.27	128612.5	136225	3.6035
158.3586	119.3912	88.6421		3.7806	2.492	2.982	12497.82	5680.88	1392.763	2008.867	3980.023	1033.287	10945.07	283.2007	1	116307.6	143435.9	11228.27	132207.6	139821.5	2.9436
154.1542	109.9006	87.3879		5.5137	2.348	2.7697	12032.57	5305.358	1355.465	1714.376	4378.49	876.8815	12040.71	282.6055	0.9991	116708	144931.4	12323.31	132608	140964.5	2.7339
148.081	109.3661	87.5029		6.178	2.4496	2.8385	11529.7	5161.438	1341.17	2364.494	3427.599	833	9335.869	389.782	0.8146	118042.6	143668.3	9725.651	133942.6	140537.6	2.8122
141.8173	127.9807	87.5957		7.1175	2.7155	3.1902	11123.17	4957.868	1320.951	2238.242	3371.113	833	9189.599	444.0585	0.827	116220.7	141754.4	9633.657	132120.7	138653.3	3.158
154.4131	101.9826	87.2721		5.2244	2.2341	2.6017	12419.41	5368.045	1361.691	1817.82	4566.862	902.9908	12553.55	282.1832	0.9839	117256.9	145992.6	12835.73	133156.9	141860.8	2.5694
141.37	129.897	86.9793		7.2295	2.7603	3.2271	11160.46	4933.607	1318.541	2357.534	3315.777	833	9067.399	482.8869	0.8777	116072.1	141522.3	9550.286	131972.1	138448.1	3.1956
150.1105	77.6192	86.4683		4.8132	2.0617	2.1807	11556.89	5457.147	1370.541	2161.394	3225.707	940.1017	8761.407	501.8004	0.7742	121838.8	147002	9263.207	137738.8	144020.2	2.1732
153.3046	110.8052	86.5941		5.7779	2.3814	2.8189	12155.38	5248.128	1349.78	2294.194	4008.235	853.0454	11010.68	282.8271	0.9662						

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	Mandate, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
11.9583	152.9894	87.1341	8.6231	146.3147		7.4647	2.8727	3.5435	11487.32	4882.652	1313.48	1817.92	4238.264	833	11646.1	284.3655	0.9739	113088.5	140918.9	11930.47	128988.5	137078.5	3.4469	0
11.4239	163.3341	87.0546	6.7237	150.9295		5.2707	2.9879	3.7134	11224.3	5358.016	1360.895	1950.652	4154.129	898.8136	11423.86	284.7748		113088.5	139940.3	11708.63	128213.7	136171.3	3.6134	0
11.4443	149.9189	88.127	7.5047	149.8742		5.8505	2.8445	3.5018	12083.19	5232.401	1348.218	2092.519	4161.56	846.4951	11444.29	284.3006		113436.9	141065.5	11728.59	129336.9	137290.1	3.4081	0
11.3364	136.1827	86.5199	5.7752	153.3275		4.4045	2.6923	3.2774	12380.4	5545.694	1379.335	1954.044	4122.342	976.9815	11336.45	283.8145		1144692.6	142212.9	11620.26	130592.6	138472.3	3.1912	0
12.8	99.2681	87.5748	8.1007	159.2085		5.212	2.2117	2.5687	12652.95	5370.728	1361.957	2180.764	4433.393	904.1082	12170.52	282.1494	0.9508	117904.2	146256.9	12452.67	133804.2	142248.3	2.4983	0
11.7736	113.0136	86.3878	8.0787	150.7896		5.8614	2.4078	2.8578	11808.2	5230.032	1347.983	1825.718	4156.962	845.5082	11421	282.8687	0.9701	116858.9	144462.8	11703.87	132758.9	140695.3	2.7832	0
11.7586	115.1016	87.1555	7.8383	146.3496		6.092	2.449	2.9186	11609.26	5180.073	1343.021	1935.365	3915.799	833	10729.2	283.0829	0.9125	116982.2	143894.5	11012.28	132882.2	140349.6	2.8467	0
11.1253	127.8315	87.3143	9.4343	152.7877		5.2189	2.5984	3.1389	11899.1	5369.247	1361.81	1816.974	4045.579	903.9415	11125.34	283.5313		115560.4	142869.3	11408.87	131460.4	139196.8	3.0582	0
12.5993	108.4641	86.3481	8.7833	147.8801		6.0151	2.596	2.8214	11470.29	5196.723	1344.675	2124.43	3569.466	833	9692.061	307.9387	0.7699	118145.2	144045.2	10000	134045.2	140286.2	2.7592	1
11.3259	99.1687	86.5105	6.3849	156.2256		4.5714	2.2264	2.5903	12517.66	5509.52	1375.743	2149.986	4118.501	961.915	11325.88	282.2823		118337	145845.2	11608.16	134237	142108.5	2.5239	0
11.469	87.5073	86.4488	8.2209	154.1176		5.7431	2.3264	2.3863	12056.29	5255.656	1350.528	2792.845	3399.078	856.1806	9253.334	746.6661	0.8068	120375.2	146275.2	10000	136275.2	143056.2	2.35	1
11.3645	169.6962	86.7296	6.8881	152.8107		4.7059	3.0547	3.8119	12200.64	5480.389	1372.849	1863.07	4132.552	949.7821	11364.53	285.003		111848.9	139398.4	11649.54	127748.9	135648.5	3.7093	0
12.0458	84.6083	87.547	8.1544	151.569		5.0602	2.1333	2.3254	12033.45	5403.617	1365.224	2433.499	3511.302	917.8063	9549.615	450.3849	0.7928	120755.8	146655.8	10000	136655.8	143436.8	2.2802	1
10.1071	124.6086	85.9845	7.673	146.0215		6.35	2.5828	3.1157	11435.16	5124.171	1337.468	2075.031	3663.845	833	10074.01	283.6071	0.9967	116356.9	142614.5	10357.62	132256.9	139280.4	3.0429	0
11.9709	132.802	89.1156	9.6872	141.4731		6.9603	2.6783	3.2566	11236.98	4991.943	1324.335	1935.94	3749.761	833	10240.38	283.9074	0.8554	115502.6	149129.6	10524.28	131402.6	138539.1	3.1789	0
11.0437	108.8207	87.3058	7.7581	146.1915		5.704	2.3665	2.7969	11629.19	5261.127	1351.369	1829.346	3922.646	859.7081	10779.73	282.803	0.9761	117594.9	144557.4	11062.53	133494.9	140996.4	2.728	0
11.2702	104.1105	86.029	6.7611	145.1122		5.6678	2.3205	2.729	11520.74	5271.972	1352.148	1891.255	3632.391	862.9762	9935.481	282.7398	0.8816	118500.4	144618.6	10218.22	134000.4	141329.3	2.6669	0
10.5393	133.1261	86.705	7.8298	146.3803		6.7908	2.6809	3.2604	11545.78	5028.667	1327.983	2207.886	3746.243	833	10295.24	283.9091	0.9768	115447.4	141926.5	10579.15	131347.4	138521.1	3.1822	0
10.9558	109.9318	87.7584	8.7694	153.9683		5.6534	2.3782	2.8142	12161.82	5275.098	1352.459	2297.09	3970.896	864.2782	10199.33	282.8267	0.9967	117413.2	144515.3	11029.16	133313.2	140909.4	2.744	0
9.9937	177.0325	88.2515	9.0767	147.0674		6.7215	3.1662	3.9761	11644.03	5043.668	1329.473	2401.808	3634.082	833	9993.726	285.5819		111843.5	138022.8	10279.31	127743.5	134713.9	3.8808	0
12.4104	145.0299	88.3342	7.6677	147.8774		6.8434	2.7665	3.3869	11928.75	5017.268	1326.851	1836.772	4512.855	833	12410.35	283.9171		113428.5	142022.8	12694.27	129328.5	137936.5	3.2895	0
12.0061	116.6781	86.8833	7.373	147.6872		6.0006	2.4491	2.9187	11742.64	5199.87	1344.987	1715.972	4246.815	833	11668.71	282.9674	0.9719	116376.8	144228.5	11951.68	132276.8	140381.3	2.8409	0
10.1048	143.577	87.7924	6.6117	152.8616		4.7999	2.7607	3.4464	12409.41	5460.03	1370.827	2560.796	3674.455	941.3026	10104.75	284.3572		114582.4	140871.5	10389.11	130482.1	137527.2	3.3646	0
10.8804	141.6064	86.2578	7.674	147.1118		6.6729	2.8565	3.3855	11560.61	5054.209	1330.52	1984.381	3956.5	833	10880.38	284.1159		114411.5	141476	11164.49	130311.5	137882.2	3.2994	0
10.5609	94.3043	87.204	7.2653	153.5569		4.0355	2.1732	2.5118	12275.14	5625.646	1387.277	2009.598	3840.342	1010.282	10560.94	282.1819		119249.4	145992.6	10843.12	135149.4	142502.2	2.4507	0
11.8791	180.0623	87.8598	8.2665	148.8849		5.7289	3.1429	3.942	11850.49	5258.744	1350.835	1661.789	4319.675	857.4667	11879.11	285.2142		110837.3	138901.6	12164.32	126737.3	134985.9	3.8319	0
11.4356	85.5288	87.3362	8.7831	144.6984		5.5199	2.2653	2.3438	11523.61	5304.207	1356.332	2165.508	3420.42	876.3721	9136.385	283.615	0.8147	120613.3	146513.3	10000	136513.3	143294.3	2.3064	1
10.6401	173.462	88.0266	10.8571	144.7205		7.4027	3.1125	3.8971	11168	4896.072	1314.813	1852.979	3869.141	833	10640.14	285.3032		111855.3	138680.7	10925.44	127755.3	135163.8	3.7983	0
12.3264	139.7693	86.3807	7.8602	157.8749		5.1917	2.7097	3.3031	12396.42	5375.141	1362.396	1868.604	4482.334	905.9464	12326.42	283.7445		113924.2	142434.4	12610.17	129824.2	138375.2	3.429	0
11.944	155.492	87.4509	6.5588	136.8992		7.0866	3.1476	3.5896	11073.99	4851.476	1310.384	1498.351	4178.78	833	11476.62	284.9415	0.9609	112952.7	140613.8	11761.11	128852.7	1368279.2	3.209	0
10.1062	148.4065	86.6867	6.7249	146.8031		6.361	2.8614	3.5266	11768.63	5121.78	1337.231	2369.637	3674.986	833	10166.22	284.5399		114155.8	140446.6	10390.76	130055.8	137101.8	3.4426	0
10.8409	86.4078	88.0434	8.1705	133.5694		6.534	2.5484	2.359	10638.58	5084.291	1333.507	1789.67	3226.112	833	8784.555	1215.445	0.8103	120431	146331	10000	136331	141312	2.3398	1
10.8735	129.2615	87.377	8.6068	139.888		7.2431	2.7627	3.2093	11019	4930.662	1318.249	2064.101	3470.992	833	9489.026	110.9743	0.8727	116044.4	141944.4	10000	131944.4	138725.4	3.1447	1
9.9657	117.792	86.4761	7.4967	155.1041		4.3675	2.4996	2.9931	12187.57	5553.707	1380.131	2247.517	3623.895	980.3189	9665.714	283.3401		117077.4	143226.5	10249.05	132977.4	139927.3	3.9242	0
12.3407	152.4788	88.8861	9.3364	150.4917		6.4066	2.8494	3.5093	11971.58	5111.91	1336.251	1800.879	4487.541	833	12340.74	284.1945		112827.7	141352.7	12624.94	128727.7	137288.7	3.4083	0
11.7447	154.8728	87.8704	8.1996	149.0254		6.1229	2.8904	3.5696	11872.97	5173.376	1342.356	1851.423	4270.816	833	11744.75	284.4098		112887.9	140817.1	12029.16	128787.9	136944.9	3.4714	0
11.0418	147.5667	87.4413	10.4328	142.7783		7.2569	2.8315	3.4826	10995.15	4927.673	1317.952	1539.61	3974.915	833	10928.38	284.3279	0.9897	113866.6	140979.3	11212.71	129766.6	137369.9	3.3934	0
11.8052	115.7525	85.4864	7.3032	146		6.1141	2.456	2.9288	11414.75	5175.217	1342.544	1722.537	3939.396	833	11794.99	283.0984	0.9144	116885.8	143863.8	11078.09	132785.8	140297.8	2.8562	0
11.9967	155.4467	86.7981	9.0394	149.6799		6.1882	2.89	3.5691	11638.92	5159.215	1340.949	1541.328	4362.43	833	11996.69	284.3735		112730.6	140911.9	12281.07	128630.8	136958.6	3.4689	0
12.733	132.3054	86.5628	9.0817	146.9178		6.8229	2.6481	3.2122	11383.36	5021.694	1327.29	1674.527	4124.846	833	11285.58	283.6754	0.8863	115070	142539.2	11569.25	130970	138815.1	3.1283	0
11.0493	133.3312	87.1861	8.2682	148.5141		6.5736	2.6658	3.2383	11720.42	5075.724	1332.657	2061.104	4051.934	833	11043.76	283.7643	0.9995	110860.3	142313.8	11327.52	130986.3	138667.5	3.1553	0
10.2935	124.4551	87.3197	8.2773	146.346		5.7687	2.576	3.1057	11567.55	5250.1														

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	10 kg Mandate, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
11.9816	90.1382	88.1987	82.399	139.0685		5.7375	2.3202	2.4434	11119.76	5256.88	1350.65	1815.799	3437.737	856.6904	9340.89	659.1104	0.7796	120087.9	145987.9	10000	135987.9	142768.9	2.4028	1
11.3318	150.5606	87.4925	7.4931	148.4865		6.5896	2.8543	3.164	11878.82	5072.257	1332.312	2118.589	4120.666	833	11331.83	284.3484	0	113431.6	140947.8	11616.18	129331.6	137208.5	3.4231	0
12.0268	114.3755	86.83	7.5139	144.6929		6.1665	2.4507	2.9209	11476.48	5166.093	1341.632	1993.985	3739.769	833	10208.88	283.1475	0.8488	117304.4	143696.4	10492.03	133204.4	140319.1	2.8523	0
11.9731	118.1493	87.8161	8.0792	152.828		6.0844	2.4696	2.9491	12186.02	5181.717	1343.184	2214.036	4212.084	833	11570.75	283.0549	0.9664	116279.5	144033.3	11853.8	132179.5	140217.5	2.8709	0
10.9321	110.0465	87.9316	9.2023	153.7706		5.6234	2.3797	2.8164	12106.26	5281.6	1353.105	2231.261	3971.309	866.9863	10920.95	282.8313	0.999	117400.7	144504.5	11203.79	133300.7	140098	2.7461	0
11.5695	91.8763	87.462	7.7021	148.4997		5.3967	2.2329	2.4821	11844.32	5330.711	1357.983	2358.306	3507.884	887.4412	9562.113	437.8871	0.8265	119924.5	145824.5	10000	135824.5	142605.5	2.4327	1
10.7416	118.1953	87.1054	6.4937	155.382		4.3009	2.4289	2.9762	12525.6	5568.139	1381.565	2281.547	3906.024	986.33	10741.57	283.2113	1	116669	143593.8	11024.78	132569	140044.9	2.9026	0
10.882	149.853	87.1906	9.2539	145.3436		6.711	2.8579	3.5216	11327.59	5045.95	1329.699	1759.843	3957.1	833	10882.03	284.4219	1	113689.5	140756	11166.45	129589.5	137161.5	3.4317	0
12.4393	125.9952	88.2067	7.4742	142.4299		6.4921	2.5674	3.0932	11498.72	5093.382	1334.41	1635.271	4200.654	833	11517.8	283.3815	0.9259	115551.1	143252.2	11801.18	131451.1	139453.4	3.0111	0
10.4292	116.4322	87.8941	10.5202	140.5909		7.1409	2.7373	2.9706	10878.06	4952.808	1320.448	1998.297	3371.506	833	9223.406	776.594	0.8844	117260.9	143160.9	10000	133160.9	139941.9	2.9215	1
11.3933	162.7228	86.6594	8.542	150.5787		4.964	2.9824	3.7052	11762.81	5424.457	1367.294	1499.553	4143.024	926.4864	11393.32	284.761	1	112394.1	139972.2	11678.08	128294.1	136213	3.6057	0
11.7718	125.0085	86.9932	6.1261	142.5541		6.9119	2.6552	3.1336	11527.93	5002.43	1325.377	2441.233	3523.894	833	9598.682	401.3176	0.8154	116468.2	142368.2	10000	132368.2	139149.2	3.067	1
11.8615	121.4295	87.4704	9.1433	152.3173		6.4571	2.5391	3.0514	11930.58	5100.969	1335.164	2503.972	3755.473	833	10262.1	283.438	0.8652	116577.9	143023.5	10545.54	132477.9	139628.9	2.9789	0
11.9915	101.8192	86.3179	6.5872	158.1996		5.3454	2.2573	2.6358	11613.37	5341.836	1359.088	2398.802	4291.569	892.0748	11591.42	282.3566	0.9666	117924	145697.7	11873.78	133824	141875.6	2.5667	0
11.6593	105.6823	87.648	7.7307	138.1598		5.7262	2.3412	2.7594	12013.36	5251.442	1350.109	1534.395	3648.99	854.4257	9964.687	282.8062	0.8547	1183179	144467.2	10247.49	1342179	141168.6	2.9664	0
11.8301	160.9208	87.2729	8.2844	148.0593		7.0334	2.9521	3.6605	11694.99	4976.104	1322.762	1859.25	4301.87	833	11830.15	284.599	1	112353.6	140368.4	12114.74	128253.6	136468.6	3.5588	0
11.6039	124.2022	88.3414	9.8485	145.7926		6.4833	2.5637	3.0876	11443.68	5095.285	1334.599	1873.426	3905.373	833	10706.37	283.4669	0.9226	116100.7	142990.5	10989.84	132000.7	139452.9	3.0112	0
11.5947	174.6319	88.29	8.658	148.9677		5.5752	3.0978	3.8754	11862.58	5292.032	1354.141	1726.822	4216.258	871.3314	11594.71	285.11	1	111368.1	139174.9	11879.82	127268.1	135323.8	3.7689	0
11.6927	147.0392	86.3737	9.7006	146.65		7.2986	2.8171	3.4614	11397.45	4918.64	1371.055	1823.281	4103.479	833	11271.27	284.2309	0.964	113760.7	141216.2	11555.51	129660.7	137496.5	3.3702	0
11.6634	121.1026	87.5927	7.1721	147.0057		5.8639	2.5043	3.0002	11822.28	5229.479	1347.928	1756.368	4241.229	845.2778	11663.38	283.1578	1	115949.2	143795.7	11946.54	131849.2	139950.2	2.92	0
12.4464	155.3477	86.9304	7.1422	137.7433		7.6044	2.8943	3.5754	10990.3	4852.373	1310.473	1297.41	4295.048	833	11788.77	284.4165	0.9472	112829.3	140802.5	12073.18	128729.3	136916.1	3.4767	0
11.6437	138.7649	87.4177	9.3447	155.2553		4.6593	2.7147	3.3105	12121.25	5490.487	1373.852	1666.866	4234.057	953.9877	11643.66	283.8487	1	114321.4	142148.9	11927.51	130221.4	138309.4	3.221	0
10.6236	119.3461	86.3556	7.9576	149.8035		6.2356	2.5129	2.6128	11744.29	5148.951	1339.93	2284.343	3736.062	833	10262.95	283.3501	0.966	116783.2	143228.6	10546.3	132682.3	139833.7	2.9413	0
11.3716	183.5952	88.5674	10.1209	155.0799		5.3892	3.1914	4.0134	11645.47	5332.344	1358.145	2049.742	4135.118	888.1214	11371.58	285.4515	1	110779.8	138336.8	11657.03	126679.8	134584.4	3.9046	0
11.3678	154.3794	87.6199	6.7339	155.129		5.3151	2.8948	3.5761	12547.75	5348.406	1359.74	2409.064	4133.729	894.8109	11367.76	284.4767	1	113093	140645.2	11652.23	128993	136894.4	3.4807	0
10.4644	96.1184	87.5851	6.8274	155.1596		4.5864	2.2004	2.5519	12533.24	5506.276	1375.42	2483.747	3805.233	960.5639	10464.39	282.2823	1	119098.8	145745.5	10746.67	134998.8	142286.1	2.9413	0
11.4245	138.0901	85.9638	8.595	140.4433		7.2496	2.7581	3.3667	10665.93	4929.248	1318.108	1828.292	3555.286	833	9705.705	294.2955	0.8495	115250.9	141150.9	10000	131150.9	139731.9	3.2903	1
11.4449	83.0991	86.9952	8.9887	140.8508		6.1237	2.428	2.2877	11377.31	5173.191	1342.337	2342.084	3284.702	833	8925.217	1074.783	0.7798	120837.4	146737.4	10000	136737.4	143518.4	2.2652	1
11.9303	93.1233	86.7532	9.2162	151.181		5.5316	2.2659	2.5082	11722.12	5317.477	1356.079	2284.921	3503.381	875.2653	9536.17	467.8304	0.799	119780	145680	10000	135680	142461	2.4593	1
11.9051	77.8798	87.7212	8.9866	157.3325		4.0928	1.9129	2.128	12308.85	5601.235	1386.044	1608.341	4294.116	1005.112	11802.66	281.2106	0.9917	120473.3	148461.2	12087.87	136373.3	144570.1	2.7222	0
10.4863	102.1424	87.8768	9.5716	145.638		5.5727	2.3055	2.6956	11404.21	5292.584	1354.196	1945.203	3538.672	871.561	9702.372	297.6281	0.9252	118816	144716	10000	133716	141497	2.6361	1
11.9219	106.9806	86.5398	7.8499	159.6824		4.8469	2.3193	2.7274	12565.4	5494.845	1368.815	2071.445	4335.237	937.0606	11921.91	282.5248	1	117225.9	145330.4	12204.43	133125.9	141401.8	2.6531	0
11.8378	137.3014	87.7599	7.5386	156.7828		4.7541	2.6933	3.2789	12577.32	5469.934	1371.813	2083.47	4304.647	945.4357	11837.78	283.7537	1	114364.4	142385.9	12121.53	130264.4	138484	3.189	0
10.8985	82.915	87.9279	9.4036	152.6842		4.9411	2.114	2.288	11989.42	5459.437	1367.788	2373.268	3488.362	928.5605	9537.924	462.0762	0.8752	120952.3	146852.3	10000	136852.3	143633.3	2.2441	1
12.6333	159.3074	87.4629	6.5899	149.5003		5.6952	2.9141	3.6046	12090.54	5266.044	1351.56	1616.485	4593.941	860.5071	12633.34	284.3624	1	112139.3	140957	12917.7	128039.3	136798.8	3.4982	0
10.0529	130.1511	87.5016	6.7197	140.3492		5.5037	2.8509	3.2162	11337.68	5307.542	1355.681	1739.071	3655.59	877.7912	10052.88	283.8389	1	115837.1	142079.3	10336.72	131737.1	138746.5	3.1409	0
11.1681	180.64	87.5742	8.7298	148.6027		5.962	3.1687	3.9799	11716.49	5208.23	1345.817	1862.904	4061.109	836.4276	11168.05	285.4083	1	111084.9	138438.4	11453.46	126984.9	134751.5	3.8739	0
10.5519	104.8458	86.3339	8.413	144.2275		5.9252	2.4005	2.7489	11555.79	5216.212	1346.61	2222.39	3499.826	839.7523	9587.459	412.5412	0.9086	118510.6	144410.6	10000	134410.6	141191.6	2.6922	1
12.1032	114.7681	86.6591	6.9303	157.4591		4.7074	2.4158	2.8697	12554.02	5480.07	1372.817	1948.312	4041.17	949.6491	12103.22	282.8188	1	116356.6	144642.7	12386.04	132256.6	140655.6	2.7905	0
11.1873	145.534	87.2086	9.2298	157.1231		4.4841	2.8024	3.4397	12252.26	5528.45	1377.623	1906.272	4068.114	969.7995	11187.32	284.1968	1	113928.7	141300.2	11471.52	129828.7	137607.5	3.3498	0
11.777	104.8637	87.3906	9.1854	135.5708		6.3062	2.7478	3.0602	11602.35	5133.667	1338.412	1431.267	3464.001	833	9425.919	574.0806	0.8004	118484.9	144384.9	10000	134384.9	141165.9	2.9669	1
11.1347	144.1856	87.1426	8.2835	144.4763		6.0735																		

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	10 kg Mandate, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
11.6343	90.4226	87.2677	7.7602	158.6643		4.9779	2.1245	2.44	12615	5421.456	1366.996	2771.872	3727.44	925.2362	10192.15	282.0547	0.876	119870	146244.2	10474.2	135770	142872.5	2.3837	0
10.7477	168.5108	86.6556	8.0567	146.3281		5.7223	3.0594	3.8188	11501.24	5260.168	1350.976	1217.762	3908.27	858.0601	10747.74	285.1103	1	112201.8	139134.7	11032.85	128101.8	135583.2	3.7213	0
11.0264	121.2128	86.6914	6.6038	147.5101		5.3875	2.5197	3.0228	1813.74	5332.714	1358.182	1822.983	4009.588	888.2753	11026.37	283.2829	1	116239.1	134348.7	11309.65	132139.1	139808.1	2.946	0
11.2843	176.3616	87.6508	9.1411	147.5998		5.7349	3.1235	3.9133	11588.01	5257.441	1350.705	1617.58	4103.365	856.9241	11284.26	285.2416	1	111363.5	138833	11569.5	127263.5	135108.8	3.8084	0
12.2108	101.7231	86.7903	9.6164	147.5533		6.5442	2.5409	2.6831	11387.25	5082.079	1333.288	2335.189	3401.694	833	9226.959	273.0411	0.7556	118790.9	144690.9	10000	134690.9	141471.9	2.6408	1
11.3099	117.2597	86.9026	8.2589	157.3411		5.1696	2.4641	2.9408	12373.92	5379.919	1362.87	2208.502	4112.695	907.9363	11309.91	283.0665	1	116490.8	143983.8	11592.98	132390.8	140252	2.8646	0
12.8761	100.5863	86.9322	5.2771	146.9973		5.4918	2.2593	2.6387	12003.08	5301.119	1355.937	2159.748	3896.418	878.8645	10620	282.463	0.8248	118537.4	145339.8	10902.46	134437.4	141830.3	2.575	0
11.7119	101.2689	87.6887	7.7385	152.771		4.269	2.2475	2.6215	1224.507	5075.04	1382.25	1606.71	4258.87	989.2041	11711.89	283.2124	1	117922	145816.2	11994.21	138222	141955.3	2.5221	0
11.231	165.1776	87.2348	9.2489	143.994		6.7577	3.1022	3.7491	11221.501	5035.827	1328.694	1545.976	4084.012	833	11231.04	284.8826	1	112264.9	139680.9	11515.92	128164.9	135973.9	3.6496	0
11.7586	84.3019	85.746	6.2075	159.1632		4.406	2.0097	2.2708	12659.6	5545.372	1379.303	2099.499	4256.58	976.8475	11704.57	281.5355	0.9954	119783.9	147670	11986.11	135683.9	143811.7	2.2114	0
11.121	184.975	86.4991	6.0097	149.6921		5.7359	3.2118	4.0435	12048.63	5257.215	1350.683	2137.91	4043.994	856.8302	11120.99	285.5558	1	110778.6	138085.1	11406.54	126678.6	134413.4	3.936	0
11.2957	127.4276	87.7888	7.0462	154.9662		3.786	2.5897	3.1261	12512.37	5679.69	1392.644	1897.715	4107.53	1032.791	11295.72	283.4818	1	115519.4	142998.6	11579.21	131419.4	139271.2	3.0446	0
12.1795	116.186	87.5457	6.9431	157.1553		5.6498	2.432	2.8936	12667.13	5275.867	1352.535	2343.233	4428.901	864.5984	12179.48	282.8629	1	116180.9	144543.3	12462.34	132080.9	140531.7	2.8133	0
10.3953	121.4083	87.8331	8.0214	155.0915		3.7601	2.5359	3.0467	1278.152	5685.318	1393.203	2082.372	3780.097	1035.135	10395.27	283.4115	1	116517.3	143096	10678.68	132417.3	139658.5	2.9735	0
10.28	110.3833	89.2951	6.5152	141.5627		6.673	2.6118	2.8555	11718.55	5054.188	1330.518	2697.619	3401.227	833	9316.159	283.8406	0.9062	117891.1	143791.1	10000	133791.1	140572.1	2.8059	1
10.7088	141.2561	89.0702	9.9183	144.7866		6.1536	2.7658	3.3857	11460.14	5166.727	1341.695	1822.619	3894.094	833	10708.76	284.139	1	114519.6	141412.5	10992.9	130419.6	137879.9	3.301	0
11.4709	99.8539	86.9225	9.132	140.8677		6.0571	2.417	2.6467	10958.17	5187.628	1343.771	1734.642	3457.131	833	9420.509	279.4913	0.8213	119021.4	144921.4	10000	134921.4	141702.4	2.5985	1
12.0553	120.9676	87.0598	7.5877	150.0351		6.2444	2.5071	3.0043	11923.6	5147.057	1339.742	2026.857	4174.945	833	11460.99	283.1905	0.9507	116057.8	143701.9	11744.16	131957.8	139921.5	2.9252	0
11.0493	72.4201	87.3703	9.6139	153.9198		5.2309	2.1856	2.0472	11968.25	5366.63	1381.55	2603.504	3332.16	902.0414	9080.298	919.702	0.8218	122147.7	148047.7	10000	138047.7	144828.7	2.0248	1
11.089	125.8654	87.8168	7.9306	148.6369		5.6116	2.5754	3.105	11874.04	5284.158	1353.359	1934.122	4032.349	868.0516	11088.96	283.4598	1	115763.2	143035.6	11372.42	131663.2	139374.8	3.0256	0
12.0257	102.9579	87.1929	6.951	158.5922		4.4602	2.2641	2.6459	12725.74	5533.633	1378.138	2067.013	4372.999	971.9583	12025.75	283.3427	1	117586.6	145797.7	12308.08	133489.6	141835.7	2.574	0
11.9283	163.0728	86.2341	7.5338	133.6327		6.2399	3.028	3.7723	10516.94	4714.691	1296.798	1688.063	3602.386	833	9814.924	285.1342	0.8191	113037	139037.1	10100.07	128937	135785.9	3.6841	0
10.5061	126.8399	86.7314	8.2938	152.8555		3.8083	2.6004	3.1418	11899.62	5674.858	1392.164	1669.413	3820.404	1030.778	10506.13	283.6137	1	115941.6	142631.4	10789.74	131841.6	139158.1	3.0653	0
11.1391	115.0163	85.2128	7.9415	152.0606		5.4625	2.4393	2.9042	11749.94	5316.45	1356.566	1742.836	4050.584	881.5012	11139.12	283.8037	1	116794.4	144116.5	11422.12	132694.4	140439.8	2.8301	0
10.558	122.8802	88.0708	8.2965	150.3818		5.6624	2.5506	3.0684	11996.6	5273.151	1352.266	2266.444	3839.267	863.4675	10557.99	283.4413	1	116297.7	143039.1	10841.43	132197.7	139549.3	2.9935	0
11.5414	138.9707	87.0291	5.8804	155.4877		5.9807	2.7195	3.3176	12617.63	5204.28	1345.425	2634.257	4196.881	834.7826	11541.43	283.8776	1	114349.2	142074.5	11825.3	130249.2	138267.9	3.2629	0
11.3782	107.7218	89.012	7.2263	144.5491		5.8697	2.3723	2.8053	12149.18	5228.229	1347.804	2747.816	3578.577	844.7574	9775.098	283.9138	0.8591	118198.2	144156.2	10058.03	134098.2	140918.5	2.7423	0
12.3424	127.8933	86.7395	7.3294	142.6693		6.5972	2.5944	3.1331	11219.65	5070.598	1332.147	1496.567	4134.84	833	11332.81	283.4929	0.9182	115458.4	142974.7	11616.3	131358.4	139235.4	3.0511	0
11.0961	134.7108	86.8239	8.0947	153.4775		5.5004	2.6808	3.2604	12083.16	5308.256	1355.752	2104.13	4034.93	878.0888	11096.06	283.8078	1	114935.9	142215.8	11379.86	130835.9	138552.6	3.1764	0
12.182	120.4638	87.8293	7.8311	140.4970		7.2554	2.7003	3.0471	11238.98	4927.993	1317.983	2325.039	3432.965	833	9318.083	281.9162	0.7649	116872.7	142772.7	10000	132772.7	139553.7	2.9927	1
11.6939	148.6599	88.2899	7.9523	151.6104		4.6545	2.8244	3.4722	12180.01	5491.529	1373.956	1705.789	4252.31	954.4217	11693.86	284.2009	1	113434.6	141312.7	11978.06	129334.6	137457	3.3775	0
12.1273	117.4151	87.2683	7.6894	158.3553		5.2169	2.4485	2.9179	12601.72	5369.664	1361.852	2154.621	4409.923	903.665	12127.29	282.9224	1	116086	144396.2	12410.22	131986	140401.4	2.8372	0
10.6703	121.7786	86.8107	7.7519	156.082		5.0116	2.5345	3.0446	12339.65	5414.161	1366.271	2354.903	3880.117	922.1978	10670.32	283.3742	1	116351.8	143205.5	10953.7	132251.8	139679.5	2.9696	0
10.7018	119.3274	87.8143	7.992	150.5701		4.4767	2.5032	2.9984	12018.86	5530.05	1377.782	1846.995	3891.566	970.4657	10701.81	283.2662	1	116576.4	143461.5	10985.08	132476.4	139925.4	2.9245	0
12.0883	97.2715	88.0103	8.9722	146.8038		5.8713	2.3581	2.5941	11603.1	5227.983	1347.77	2297.914	3482.902	844.6173	9465.931	283.0692	0.7831	119310	145210	10000	135210	141991	2.5455	1
12.162	126.3227	87.6364	7.855	151.145		6.4849	2.5724	3.1006	12058.56	5094.943	1334.565	2145.057	4179.991	833	11470.83	284.0037	0.9432	115542	143196.3	11754.23	131442	139412.6	3.0186	0
11.4161	141.107	88.7266	7.9629	152.853		5.5764	2.7469	3.3579	12344.97	5291.77	1354.115	2274.539	4151.324	871.2223	11416.14	283.9838	1	114215.6	141815.8	11700.13	130115.6	138049.5	3.2687	0
10.4633	117.0887	86.8553	8.4481	152.6603		5.0404	2.48	2.9643	11969.67	5407.924	1365.652	2069.675	3804.818	919.6002	10463.25	283.2167	1	116910.9	143557.4	10746.47	132810.9	140098.1	2.8928	0
12.461	175.6057	86.2783	7.4684	149.2084		7.0983	3.0832	3.8541	11759.09	4962.028	1321.364	1709.428	4531.274	833	12461.01	284.9323	1	110934.1	139580.1	12745.94	126834.1	135477.1	3.7408	0
12.079	77.3466	86.5845	7.4671	149.4097		5.7506	2.318	2.1595	11792.41	5254.046	1350.368	2620.226	3310.261	855.51	8970.297	1029.703	0.7426	121529	147429	10000	137429	144210	2.1383	1
12.9435	125.3299	86.7485	8.0892	145.6567		6.5118	2.5602	3.0826	11457.26	5089.119	1333.987	1604.745	4194.409	833	11476.11	283.3632	0.8866	115633.4	143292.4	11759.47	131533.4	139507.5	3.0012	0
12.4803	142.3104	88.6243	12.9124	151.5033		7.236	2.7671																	

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	10 kg Mandate, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
11.2933	113.2022	86.4696	7.5349	153.1592		5.6806	2.4129	2.8653	12089.58	5269.201	1351.873	2098.228	4106.455	861.8223	11292.75	282.8998	0	116901.8	144377.5	11575.65	132801.8	140651.3	2.7913	0
11.4382	106.458	88.5781	6.6812	151.0606		5.44	2.3221	2.7315	12069.28	5546.679	1379.433	1604.435	4159.349	977.3895	11438.21	282.5854	0	117516.6	145137.4	11720.8	133416.6	141364.5	2.6605	0
12.2126	166.8987	86.2078	7.4756	150.0856		5.4679	3.0033	3.7362	11816.58	5315.278	1356.45	1420.908	4440.929	881.0134	12212.56	284.7107	0	111712.4	140109.6	12497.27	127612.4	136086.8	3.6289	0
11.1933	85.8385	86.6543	8.4438	154.0326		4.9092	2.1024	2.3529	12046.97	5436.329	1368.473	2377.925	3530.808	931.4311	9646.201	353.7909	0.8618	120627.4	146527.4	10000	136527.4	143308.4	2.3038	1
12.6804	118.5853	87.2582	9.0685	154.9708		6.2793	2.4887	2.9771	12117.12	5139.493	1338.99	2400.16	4003.471	833	10939.02	283.1906	0.864	116536.9	143659.1	11222.21	132436.9	140046.6	2.9023	0
10.7943	155.2739	87.7426	9.2717	144.1206		6.7494	2.9192	3.612	11309.28	5037.633	1328.873	1782.568	3925.203	833	10794.31	284.6376	0	113266.7	140245.7	11078.95	129166.7	136679.4	3.5202	0
11.9293	123.8115	87.7352	8.85	144.1906		6.6283	2.5779	3.1062	11374.47	5063.871	1331.479	2131.72	3612.403	833	9846.308	283.8165	0.8254	116540.5	142570.5	10129.93	132440.5	139309.7	3.0375	0
10.7454	138.9347	86.8034	7.9245	159.4719		4.1552	2.7382	3.3451	12578.97	5599.705	1384.7	2285.657	3907.426	999.4772	10745.43	284.0426	0	114711.4	141640.9	11029.47	130611.4	138090.5	3.2612	0
10.8798	140.2426	86.1006	9.3902	136.5639		7.9083	2.9471	3.4001	10475.88	4786.539	1303.934	1716.626	3433.779	833	9381.398	618.6017	0.8623	115009.5	140909.5	10000	130909.5	137690.5	3.3346	1
12.3091	139.058	86.409	9.1468	147.1017		6.9674	2.7157	3.312	11365.4	4990.406	1324.182	1539.603	4276.206	833	11740.59	283.8395	0.9538	114251.5	142176	12024.43	130151.5	138305.3	3.2218	0
11.3298	100.9082	86.3552	6.958	157.5416		5.4351	2.2663	2.6491	12508.36	5322.392	1357.156	2720.209	3822.631	883.9761	10480.84	282.5009	0.9251	118572.1	145235.4	10763.34	134472.1	141770.7	2.5859	0
12.3089	192.0063	87.3831	8.2226	143.6587		6.9116	3.2432	4.0899	11372.1	5002.479	1325.382	1333.261	4475.976	833	12308.94	285.4725	0	109787.6	138282	12594.41	125687.6	134227.9	3.97	0
10.8043	116.195	86.8072	9.0045	139.5798		6.8198	2.6427	2.9678	10859.69	5022.384	1327.359	1834.478	3440.467	833	9404.309	595.6911	0.8704	117310.9	143210.9	10000	133210.9	139991.9	2.9123	1
10.156	117.3207	86.8349	9.0108	156.6034		5.9324	2.4896	2.9783	12187.52	5214.37	1346.554	2692.352	3692.98	839.0963	10155.7	283.2842	0	117034.2	143373.1	10438.98	132934.2	140012.8	2.9085	0
11.0742	99.1813	85.4027	7.4883	136.1248		7.1999	2.7309	2.6277	10606.07	4940.03	1319.179	1882.404	3229.461	833	8783.313	1216.867	0.7931	118999.9	144899.9	10000	134899.9	141680.9	2.6024	1
11.297	145.0772	88.6503	6.1767	142.7664		5.5876	2.7946	3.4282	11744.46	5289.36	1353.876	1750.99	4108.016	870.2183	11297.05	284.1564	0	113919.8	141401	11581.2	129819.8	137673	3.3378	0
12.2343	100.9024	87.2922	7.0701	155.146		5.3253	2.2441	2.6165	12446.14	5346.175	1359.519	2207.332	4327.23	893.8821	11631.99	282.3094	0.9508	118000.3	145814.6	11914.3	133900.3	141979.4	2.5476	0
12.2034	156.9471	86.8355	5.536	154.9608		6.3077	2.9006	3.5846	12598.23	5133.337	1338.379	2453.903	4437.617	833	12203.45	284.3789	0	112517.4	140905.2	12487.83	128417.4	136885.4	3.4824	0
12.0967	91.873	87.4758	7.7847	137.7784		6.9214	2.6401	2.4757	10979.35	5000.362	1325.171	2171.781	3237.086	833	8759.728	1240.272	0.7241	119804.5	140570.4	10000	135704.5	142485.5	2.4548	1
11.7437	121.4131	86.8254	9.2906	133.9397		7.6658	2.8572	3.0627	10384.99	4839.071	1309.151	1647.659	3354.106	833	9111.205	888.7948	0.7758	116749.5	142649.5	10000	132649.5	139430.5	3.0153	1
11.7756	104.4066	88.3906	7.5374	155.8466		5.1833	2.2883	2.6816	12600.7	5376.958	1362.576	2270.444	4282.022	906.7029	11775.56	282.439	0	117562.8	145520.8	12058	133462.8	141639.3	2.61	0
11.4109	105.4254	87.1832	7.9187	156.143		6.0793	2.309	2.7121	12376.6	5569.703	1381.782	1886.765	4149.429	986.9811	11410.93	282.5452	0	117636.7	145230.2	11693.48	133536.7	141466.1	2.6418	0
10.8814	100.4172	88.7359	7.5543	156.2438		4.9278	2.2519	2.6279	12684.13	5432.314	1368.074	2595.124	3956.856	929.7589	10881.36	282.4118	0	118425.4	145489.2	11163.77	134325.4	141895.6	2.563	0
9.8937	73.9551	87.7913	7.7603	154.5576		3.7943	1.8824	2.0829	12369.39	5677.899	1392.466	2587.288	3597.692	1032.405	9893.654	281.2661	0	121963.5	148038.5	10174.92	137863.5	144763.1	2.0368	0
11.8654	96.6756	86.7751	10.7239	136.7308		7.4766	2.7941	2.5747	10375.72	4880.08	1313.225	1772.987	3174.434	833	8590.068	1409.932	0.724	119245.1	145145.1	10000	135145.1	141926.1	2.5574	1
9.8378	111.8328	88.5572	9.3857	150.4135		4.5754	2.4253	2.8836	11932.23	5508.671	1375.658	2106.95	3577.387	961.5614	9837.815	283.1042	0	117741.7	143762.6	10120.92	133641.7	140504.7	2.8182	0
11.8763	82.4792	86.7619	8.3486	150.2447		5.8754	2.3558	2.2749	11389.13	5227.004	1347.682	2233.599	3334.593	844.2472	9049.131	950.8692	0.762	120929.2	146829.2	10000	136829.2	143610.2	2.2484	1
11.8356	96.1248	86.9251	8.784	150.2595		5.2273	2.2986	2.5493	11762.54	5367.417	1361.628	1868.66	3860.11	902.7293	10565.08	282.2664	0.8926	119047.5	145794.8	10847.35	134947.5	142303	2.4882	0
10.4918	132.8939	86.8566	10.2745	143.7307		6.8431	2.6834	3.2642	11007.19	5017.331	1326.857	1762.169	3665.833	833	10067.29	283.9466	0.9595	115573.2	141824.4	10351.23	131473.2	138492.3	3.1875	0
10.3462	110.6701	87.3567	7.0753	150.3018		5.4803	2.3996	2.8457	12066.45	5312.595	1356.183	2353.514	3762.256	879.896	10346.21	282.9611	0	117615.4	144144.6	10629.17	133515.4	140723	2.7782	0
11.3295	82.4492	87.2375	7.9233	150.9879		4.5648	2.01	2.2711	11975.48	5310.953	1375.885	2053.317	3670.819	962.5118	10043.45	281.6833	0.8865	120864.8	147089.9	10325.14	136764.8	143766.2	2.2198	0
12.6134	127.7899	87.9744	7.6689	154.8363		5.166	2.5641	3.0884	12434.2	5580.962	1362.947	1793.595	4586.707	908.2582	12613.45	283.239	0	114873.5	143670.2	12896.68	130773.5	139518.7	2.9992	0
10.3982	80.3561	86.2546	8.618	152.1371		5.5449	2.2849	2.2283	11811.44	5298.606	1354.794	2544.799	3337.132	874.0692	9125.763	874.2368	0.8776	121192.1	147092.1	10000	137092.1	143873.1	2.2001	1
12.8694	131.1894	87.8378	7.7504	140.2396		6.8752	2.6485	3.2127	11231.44	5100.383	1326.167	1736.694	3933.192	833	10697.52	283.7502	0.8312	115443.3	142324.6	10981.27	131343.3	138789.7	3.1329	0
11.7944	141.4983	87.6655	7.6139	155.9792		5.694	2.7421	3.3509	12486.38	5266.311	1351.586	2316.999	4288.865	860.6184	11794.38	283.9188	0	114011.3	141989.6	12078.3	129911.3	138101.6	3.2592	0
12.4358	120.114	86.4583	7.4232	152.6798		6.1733	2.488	2.9761	12067.06	5162.46	1341.271	2010.75	4317.575	833	11853.85	283.0281	0.9532	115954.4	143991.4	12136.93	131854.4	140084.5	2.8953	0
12.3696	95.1357	87.3116	6.9353	146.7169		5.2128	2.1857	2.5302	11792.57	5370.556	1361.94	1901.413	3852.622	904.0364	10517.91	282.2278	0.8503	119179.7	145879.8	10800.14	135079.7	142403.2	2.4699	0
12.1689	161.9444	87.4142	8.2511	153.1299		6.4132	2.9537	3.663	11222.24	5110.477	1336.108	2015.588	4425.069	833	12168.94	284.5611	0	112125.8	140479.3	12453.5	128025.8	136470.5	3.5855	0
11.7415	121.0995	86.6123	8.0841	151.0281		6.0793	2.5034	2.9989	11859.26	5182.816	1343.293	1842.881	4255.397	833	11703.26	283.1501	0.9967	115930.7	143817.1	11986.41	131830.7	139958.7	2.9184	0
11.3756	125.3012	88.2761	7.1894	150.741		5.2856	2.5621	3.0855	12223.1	5354.79	1360.374	2071.888	4136.582	897.4699	11375.61	283.3815	0	115683.1	143242	11658.99	131583.1	139489	3.0046	0
10.8228	152.2432	86.6184	6.7838	148.6174		5.414	2.8822	3.5625	11864.8	5326.974	1357.611	1956.785	3935.546	885.8847	10862.75	284.222	0	113511	140518.2	11107.28	129411	136942.8	3.4718	0
10.919	139.8796	87.6922	6.9305	155.4708																				

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	10 kg Mandate, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
11.9293	107.2105	88.1177	9.709	152.6702		5.6335	2.3334	2.7481	11970.68	5279.401	1352.886	1928.585	4141.733	866.0705	11371.08	282.6296	0.9532	117472	145025.7	11653.71	133372	141274.4	2.677	0
10.6706	136.6218	88.0743	9.6398	145.3568		5.3975	2.7132	3.3081	11400.98	5330.531	1357.965	1542.899	3880.217	887.3663	10670.6	283.969	1	114954.9	141809.5	10954.57	130854.9	138293.2	3.2259	0
10.8119	126.5006	87.3691	7.3254	133.1864		7.403	2.8052	3.1581	10660.74	4896.025	1314.808	1797.105	3417.797	833	9338.561	661.4392	0.8637	116287.1	142187.1	10000	132187.1	138968.1	3.1002	1
12.7254	106.5231	87.9544	8.3163	158.9824		5.403	2.2987	2.6971	12661.07	5329.354	1357.848	2084.535	4600.455	886.8756	12649.73	282.3814	0.9941	116915.6	145747.7	12932.11	132815.6	141584.9	2.62	0
13.1825	84.3063	88.1761	9.0377	148.9836		5.146	2.1473	2.3185	11699.32	5355.023	1363.377	2122.678	3516.183	910.0621	9513.158	486.8416	0.7216	120785.5	146685.5	10000	136685.5	143466.5	2.2748	1
9.7532	100.2648	86.6478	8.1179	159.315		3.751	2.2714	2.6566	12510.99	5687.278	1393.398	2445.743	3546.617	1035.951	9753.199	282.5932	1	119003	144938.8	10035.79	134903	141708.3	2.5974	0
11.9561	134.0923	87.304	8.9315	153.4481		5.9855	2.6618	3.2325	12026.13	5203.136	1343.311	2024.602	4216.771	834.3059	11596.12	283.6815	1	114764.2	142544	11879.8	130664.2	138719.9	3.1457	0
12.5367	126.065	87.1769	6.5173	155.4715		5.8562	2.5452	3.0606	12540.27	5231.167	1348.096	2154.221	4558.809	845.9809	12536.73	283.1876	1	115066.9	143789.2	12819.91	130969.9	139662.4	2.9728	0
12.0324	109.9784	85.9206	7.2136	150.3333		5.8326	2.3766	2.8119	11832.29	5236.262	1348.602	1973.687	4023.637	848.103	11027.01	282.8096	0.9164	117356.2	144566	11309.81	133256.2	140925.3	2.741	0
11.546	148.259	86.4361	7.2693	154.7239		5.3701	2.8237	3.4712	12248.99	5336.477	1358.555	2063.561	4198.55	889.8425	11546.02	284.2186	1	113534.2	141264.4	11830.24	129434.2	137456.3	3.3776	0
10.9051	137.9287	87.8007	8.6531	154.2855		5.8107	2.7228	3.3223	12211.33	5241.019	1349.074	2403.649	3965.5	850.0843	10905.13	283.9706	1	114730.2	141819.3	11189.1	130630.2	138217.5	3.2379	0
11.1768	73.8993	86.7781	9.0377	148.9836		4.6607	2.0294	2.0837	11746.02	5490.184	1373.822	2069.479	3456.676	953.8616	9433.198	566.8022	0.844	122019.9	147919.9	10000	137919.9	144700.9	2.0482	1
11.6096	148.5027	87.4712	9.0072	148.9836		6.3849	2.8248	3.4728	11653.76	5116.595	1336.716	1743.774	4221.674	833	11609.61	284.2132	1	113485.3	141279.1	11893.82	129385.3	137450.5	3.3787	0
11.0892	109.9091	87.9201	8.7783	152.3031		5.8044	2.3842	2.823	12053.55	5242.369	1349.208	2344.16	3865.161	850.6468	10613.58	282.88	0.9571	117563.9	144360.3	10896.46	133463.9	140552.8	2.7544	0
11.2078	167.7948	87.1983	9.5088	151.0956		5.9431	3.0396	3.7896	11738.55	5212.335	1346.225	1864.307	4075.546	838.1377	11207.76	284.9766	1	112065.4	139458.2	11492.74	127965.4	138578.6	3.6891	0
11.4307	88.4344	87.0871	9.584	138.1077		6.5651	2.5499	2.4031	10703.77	5077.571	1332.84	1803.547	3254.816	833	8839.915	1160.805	0.7733	120206.5	146106.6	10000	136106.5	142887.5	2.381	1
11.8705	103.5468	86.8525	7.1889	148.2575		5.5549	2.2959	2.6928	11810.72	5296.441	1354.579	1941.621	3942.914	873.1674	10802.07	282.566	0.91	118132.9	145117.5	11084.64	134032.9	141549.3	2.6285	0
9.6717	96.3035	87.0408	10.7492	144.6437		6.8307	2.6594	2.5691	11035.1	5020.024	1327.124	2225.089	3227.867	833	8845.267	1154.734	0.9145	119324.1	145224.1	10000	135224.1	142005.1	2.5429	1
12.3259	166.464	85.9436	7.9985	140.3026		8.2789	3.0467	3.8	10935.9	4706.238	1295.958	1874.323	3824.331	833	10438.99	285.1137	0.8469	112496.1	139120.2	10724.11	128396.1	135668.1	3.7057	0
10.5652	113.376	87.3975	8.9005	150.8739		5.1292	2.4303	2.8909	11843.15	5388.678	1363.74	1935.265	3841.881	911.5842	10565.18	283.0391	1	117234.4	143982.6	10848.21	133134.4	140490.5	2.8208	0
11.184	153.0503	87.5286	8.1857	151.3599		5.5631	2.8852	3.5619	12009.34	5294.662	1354.402	2018.939	4066.906	872.4268	11184	284.4705	1	113284.9	140653.4	11468.47	129184.9	136961.7	3.4684	0
11.3627	92.8293	87.4688	8.7709	157.7496		4.7384	2.1378	2.4597	12414.56	5473.356	1372.151	2088.308	4131.893	946.8527	11362.71	281.9872	1	119005.2	146549.9	11644.69	134905.2	142801.5	2.3968	0
11.3953	142.3288	88.1848	5.8577	153.3106		4.1886	2.7613	3.3791	12621.61	5592.465	1383.981	2102.963	4143.745	996.6151	11395.3	284.0337	1	114117	141696.3	11679.34	130017	137936.8	3.2894	0
11.6602	96.4088	88.4676	7.3007	156.4004		4.9424	2.1824	2.5254	12694.54	5427.636	1367.61	2332.734	4236.748	927.8102	11650.94	282.1055	0.9992	118469.9	146302.9	11933.05	134369.9	142461.7	2.4591	0
10.5946	175.1464	86.2135	7.8885	147.4421		6.0094	3.1307	3.9238	11548.4	5197.974	1344.799	1918.056	3852.574	833	10594.58	285.3705	1	111742.6	138522.5	10879.95	127642.6	135020.3	3.8246	0
11.2084	106.5905	88.0565	8.2823	153.4079		5.0443	2.3285	2.7408	12239.82	5407.07	1365.567	2070.169	4075.767	919.2445	11208.36	282.6308	1	117615.6	145006.5	11490.99	133515.6	141307.6	2.6709	0
10.9759	150.098	87.9581	8.4148	141.0246		7.0539	2.8583	3.5221	12127.57	5371.646	1323.319	1697.353	3991.249	833	10975.54	284.4101	1	113627.3	140787.6	11260.35	129527.3	137162.9	3.4314	0
12.5729	97.7513	88.7743	8.1791	153.6893		5.2915	2.2135	2.5712	12398.51	4952.725	1360.169	2370.594	4106.415	896.6099	10890.55	282.2743	0.8734	118662	145824.8	11262.83	134562	142199.3	2.5073	0
12.4412	120.4094	87.3539	10.3617	146.5694		6.9407	2.6525	3.0478	11284.71	4996.173	1324.755	2231.727	3497.057	833	9490.624	509.3765	0.7628	116902.9	142802.9	10000	132802.9	139583.9	2.9872	1
12.6527	136.8581	88.118	8.9371	153.1943		5.8913	2.6628	3.2428	11230.05	5223.544	1347.339	1713.384	4600.981	842.8061	12652.7	283.5709	1	114034	142870.2	12936.27	129934	138706.1	3.1483	0
10.5696	127.2055	86.5545	8.1967	143.1663		6.5461	2.6992	3.1548	11215.41	5081.686	1333.245	1815.502	3752.757	833	10312.7	283.6669	0.9757	115996.5	142492.9	10596.37	131896.5	139081.9	3.0793	0
12.4241	81.9873	85.9593	7.0289	157.803		4.8078	2.0601	2.268	12485.44	5458.319	1370.657	2743.296	3540.58	940.5898	9616.3	283.4999	0.774	121073.6	146973.6	10000	136973.6	143754.6	2.2219	1
11.3901	85.1416	88.0171	10.1206	136.0012		6.6404	2.5692	2.3309	10594.01	5061.252	1331.219	1758.659	3207.884	833	8706.843	1293.158	0.7644	120565.8	146465.8	10000	136465.8	143246.8	2.3151	1
11.1147	79.5967	85.9921	9.0901	149.88		5.8565	2.358	2.2101	11526.07	5231.1	1348.089	2407.309	3291.221	845.9531	8959.263	1040.737	0.8061	121257.1	147157.1	10000	137157.1	143938.1	2.1882	1
12.3309	93.7471	88.2678	8.8087	149.0276		5.2168	2.1781	2.5189	11841.6	5369.692	1361.854	2110.42	3623.959	903.6767	9860.713	282.2669	0.7997	119665.6	145708.6	10142.98	135565.6	142443.5	2.4625	0
11.0836	139.3126	87.6603	8.6161	152.8804		5.5299	2.7344	3.3395	12084.32	5301.86	1358.15	2189.18	4030.399	875.4247	11083.6	283.9681	1	114525.1	141792.7	11367.59	130425.1	138133.4	3.2533	0
11.5935	102.3488	85.8163	7.6824	147.8148		5.7746	2.3398	2.6992	11549.34	5248.847	1349.852	2159.892	3535.409	853.3449	9640.318	359.6822	0.8315	118784.7	144684.7	10000	134684.7	141465.7	2.6419	1
11.1734	104.7388	87.3185	9.3993	157.4696		4.7302	2.3046	2.7056	12269.9	5475.121	1372.326	2009.817	4063.045	947.588	11173.32	285.557	1	117824.9	145180.9	11455.93	133724.9	141493.2	2.6368	0
11.8966	177.2561	86.7962	8.452	146.1143		7.9476	3.1152	3.9011	11447.21	4778.01	1303.087	1805.429	4325.88	833	11893.68	282.1213	1	111042.6	139123.4	12180.74	126942.6	135202.4	3.7912	0
10.7442	134.5859	87.7408	7.9695	147.5584		5.4552	2.6876	3.2704	11770.92	5318.031	1356.723	1905.04	3906.968	882.1601	10744.16	283.8475	1	115107.7	142035.7	11028.04	131007.7	138485.8	3.1887	0
11.4883	135.6498	87.7361	8.4954	156.4279		6.2825	2.6825	3.263	12395.45	5267.335	1351.688	2335.834	4177.553	861.0451	11488.27	283.763	1	114671.9	142343.9	11772.03	130571.9	138554.5	3.1681	0
10.5622	140.8605	87.5899	6.305																					

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	Mandate, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding	
11.9268	149.3846	88.1226	7.2636	153.246		6.0598	2.8264	3.4753	12391.31	5187.041	1343.713	2288.538	4337.021		833	11926.81	284.1761	1	1132270.2	141381.2	12210.99	129170.0	137450.5	3.3787	0
11.531	142.5909	85.7661	7.3654	153.0351		5.7264	2.7609	3.3786	11998.06	5259.291	1350.889	1935.084	4193.107	857.6946	833	11531.04	284.0147	1	114033.2	141748.3	11815.06	129933.2	137945	3.2879	0
12.3112	137.371	87.833	8.5283	158.2823		6.1053	2.6828	3.2634	12520.87	5177.183	1342.734	2289.16	4476.795		833	12311.19	283.8593	1	114143.4	142638.3	12594.85	130044.3	138584	3.1707	0
11.6409	132.0571	86.6346	7.4645	150.9478		6.1072	2.6369	3.1957	11950.55	5176.766	1342.692	1963.024	4233.068		833	11641.19	283.5943	1	114929.7	142754.3	11924.53	130829.7	138915.8	3.1098	0
9.6375	177.7478	87.565	8.8145	157.2419		3.2267	3.2198	3.9971	12382.88	5800.886	1404.682	2187.501	3504.547	1083.269	833	9637.507	362.4935	1	111892.4	137792.4	10000	127792.4	134573.4	3.9066	1
11.2365	137.8322	85.9071	8.9544	138.01		7.3561	2.7903	3.3615	10620.24	4906.177	1315.817	1635.181	3528.067		833	9636.219	363.9861	0.8576	115264.9	141164.9	10000	131164.9	137945	3.2878	1
10.1025	96.9657	85.8931	7.522	143.6801		6.0667	2.4441	2.5863	11260.37	5185.553	1343.565	2107.675	3388.576		833	9288.014	371.7812	0.9194	119317.2	145217.2	10000	135217.2	141998.2	2.5442	1
12.0459	88.6727	85.6006	7.2317	148.8516		4.8681	2.0933	2.3939	11665.34	5445.24	1369.358	1660.614	3852.987	935.1426	10534.49	281.9178	0.8745	119892.4	146608.8	10816.41	135792.4	143127	2.337	0	
11.055	155.4331	88.1007	8.7108	148.7758		5.3268	2.9143	3.6047	11811.29	5345.867	1359.488	1790.918	4019.268	893.7536	11052.99	284.5848	1	113141.3	140378.9	11337.57	129041.3	136729.3	3.511	0	
11.4023	105.2548	88.7571	8.9438	138.8575		6.4195	2.5186	2.7551	11082.67	5109.116	1335.973	1965.665	3436.921		833	9365.505	634.495	0.8214	118434.6	144334.6	10000	134334.6	141115.6	2.7061	1
11.0723	85.5107	87.2475	7.7514	142.5768		6.2087	2.4567	2.3406	11334.3	5154.783	1340.509	2320.516	3283.489		833	8938.978	1061.022	0.8073	120558.2	146458.2	10000	136458.2	143239.2	2.3165	1
11.3513	80.995	85.7065	9.0902	145.5742		6.1791	2.4431	2.2405	11153.35	5161.196	1341.146	2164.737	3251.268		833	8833.325	1166.675	0.7782	121071.5	146971.5	10000	136971.5	143752.5	2.2223	1
11.4008	125.5466	86.5433	8.2516	144.0509		6.7241	2.6107	3.1444	11277.99	5043.118	1329.418	2117.624	3552.825		833	9699.743	300.2569	0.8508	116430.5	142330.5	10000	132330.5	139111.5	3.0739	1
11.7426	157.5996	87.2278	8.7185	139.3434		7.7368	2.9344	3.6435	10399.75	4823.7	1307.625	1055.265	4068.163		833	11111.02	284.6353	0.9511	112910.9	140263.5	11452.65	128810.9	136579.9	3.539	0
10.0114	90.541	86.6914	7.397	155.6799		4.1049	2.1295	2.4472	12344.55	5610.616	1385.784	2301.602	3640.526	1004.021	10001.45	282.0884	1	119948.9	146142.5	10293.53	135848.9	142829	2.9317	0	
11.5764	170.3689	86.8501	5.8957	141.6649		6.5554	3.0557	3.8134	11468.4	5079.654	1333.047	1611.108	4209.589		833	11576.37	284.9749	1	111707.2	139468.5	11861.35	127607.2	135650.4	3.709	0
11.8158	107.7552	86.9807	8.5295	144.279		5.8862	2.3714	2.804	11318.85	5224.65	1347.448	1893.012	3608.478	843.2665	9840.389	282.9217	0.8328	118162.9	144186.2	10123.31	134062.9	140927.5	2.7406	0	
9.5248	131.9593	88.2604	7.7205	154.1338		4.2185	2.7771	3.2577	12413.93	5585.988	1383.338	2585.278	3463.557	993.7641	9524.787	475.2128	1	115794.4	141694.4	10000	131694.4	138475.4	3.1906	1	
10.4439	112.899	86.0588	9.1381	157.83		5.1709	2.4267	2.8856	1140.39	5379.637	1362.842	2290.302	3797.789	907.819	10443.93	283.0406	1	117341	143967.9	10726.97	133241	140514.9	2.8164	0	
10.8627	104.8566	86.4106	10.0349	146.0789		6.503	2.5497	2.7465	11156.87	5091.007	1334.175	2093.663	3403.03		833	9293.535	706.4654	0.8555	118466.2	144366.2	10000	134366.2	141147.2	2.7003	1
11.7192	122.4673	88.6617	10.3668	153.5752		5.0031	2.5199	3.0232	12024.15	5415.991	1366.453	1655.208	4261.539	922.9603	11719.23	283.2021	1	115791.9	143694.4	12002.44	131691.9	139830.8	2.9419	0	
12.3997	131.2704	86.8439	10.0671	156.7704		6.8442	2.6484	3.2127	12036.33	5017.088	1326.833	2527.023	3930.386		833	10740.75	283.7447	0.8662	115415.9	142340.4	11024.49	131315.9	138791.6	3.1326	0
10.7427	159.4687	85.7705	6.5898	158.0754		4.7432	2.9651	3.6796	12516.52	5472.316	1372.047	2417.294	3906.448	946.4197	10742.74	284.7973	1	112941.5	139869.1	11027.53	128841.5	136319.3	3.5862	0	
11.1783	108.6958	86.9439	9.1606	145.4362		5.8873	2.3831	2.8213	11312.51	5224.427	1347.426	1883.301	3612.178	843.1737	9881.588	282.9567	0.884	118044.7	144109.3	10164.55	133944.7	140837.3	2.7472	0	
12.3785	147.5701	87.5839	9.2109	142.2198		7.5799	2.8468	3.5051	11146.19	4857.884	1311	1959.094	3783.408		833	10317.91	284.4186	0.8335	114135.6	140638	10602.37	130035.6	137225.1	3.42	0
11.858	97.4624	86.4293	7.4792	151.9288		5.3359	2.2231	2.5854	11994.8	5343.894	1359.292	2244.612	3752.893	892.9317	10252.46	282.3795	0.8646	119058.4	145493.3	10534.84	134958.4	142102.1	2.5251	0	
12.7799	87.4526	87.2565	9.7145	151.406		5.3192	2.1983	2.3869	11740.32	5347.515	1359.652	2229.753	3506.965	894.44	9504.069	495.9306	0.7437	120419.4	146319.4	10000	136319.4	143100.4	2.3419	1	
11.0279	94.7106	87.2533	6.9776	150.1807		5.0845	2.1786	2.5198	12055.86	5398.352	1364.701	2124.028	3851.164	915.6137	10576.02	282.1986	0.959	119197.1	145955.3	10858.22	135097.1	142460	2.4594	0	
11.7702	152.468	87.5649	7.8654	146.8329		7.605	2.8853	3.562	11702.5	4852.255	1310.461	2318.487	3986.294		833	10931.59	284.5059	0.9287	113444.3	140560.4	11216.09	129344.3	136950	2.6675	0
12.0207	103.611	87.8313	8.4679	141.2753		5.7564	2.3011	2.7251	11212.08	5252.789	1350.243	1791.201	3560.865	854.9866	9693.492	306.5076	0.8064	118657.5	144557.5	10000	134557.5	141338.5	3.4702	1	
11.2148	104.5438	86.4932	10.0305	136.3312		6.9442	2.6626	2.7383	10424.25	4950.429	1324.681	1540.496	3328.647		833	9062.375	937.6249	0.8081	118465.4	144365.4	10000	134365.4	141146.4	2.7005	1
11.3339	196.2634	87.1332	8.2566	151.9639		5.7654	3.311	4.1899	11986.4	5295.836	1350.049	2007.936	4121.404	854.1732	11333.86	285.8512	1	109871.7	137391.5	11619.72	125771.7	133651.1	4.0758	0	
11.5209	95.7322	88.1542	8.8996	143.1038		5.5184	2.2683	2.5633	11341.64	5304.352	1355.365	1883.1	3520.361	876.4625	9600.395	399.605	0.8333	119499.7	145399.7	10000	135399.7	142180.7	2.5107	1	
12.1391	96.1319	87.8673	7.9784	150.6496		5.2491	2.1993	2.5503	12035.23	5362.694	1361.159	2154.321	3854.294	900.7622	10533.79	282.2718	0.8678	119062.4	145778.5	10816.06	134962.4	142296.8	2.4894	0	
11.7209	91.2915	86.5495	7.7814	148.0103		5.5921	2.284	2.4687	11658.49	5288.375	1353.778	2274.836	3469.691	869.8082	9444.924	555.0763	0.8058	119972.9	145872.9	10000	135872.9	142653.9	2.4239	1	
11.435	104.1497	87.1491	7.4393	150.7138		5.5459	2.3043	2.7051	12013.37	5298.384	1354.772	2153.009	3931.23	873.9771	10788.31	282.5952	0.9434	118076.2	145047.1	11070.91	133976.2	141483.4	2.6386	0	
10.2522	144.1772	87.4321	8.1693	138.4832		7.4639	2.8515	3.4699	10976.58	4882.82	1313.497	2025.074	3520.186		833	9659.739	340.2611	0.9422	114694.2	140594.2	10000	130594.2	137375.2	3.3925	1
11.7188	150.6967	87.5336	8.8985	147.279		6.3251	2.846	3.5041	11581.31	5129.568	1338.005	1617.34	4261.394		833	11718.84	284.2682	1	113250.2	141153.3	12003.1	129150.2	137299.5	3.4082	0
12.8169	95.8298	87.4775	7.8863	153.5008		5.3322	2.2064	2.5607	12217.31	5344.683	1359.37	2564.267	3653.731	893.2605	9924.02	282.3561	0.7743	119402.5	145508.9	10206.38	135302.5	142223.5	2.5028	0	
10.9127	115.6966	86.6363	8.8623	152.4799		5.9384	2.4542	2.9263	11858.98	5213.343	1346.325	2115.408	3943.345	838.5575	10842.76	283.0783	0.9936	116868.5	143894.3	11125.85	132768.5	140312.9	2.8534	0	
10.5974	85.1643	86.6357	9.5464	149.2674		4.9666	2.1275	2.3737	11506.91	5423.902	1367.239	1890.494	3497.024	926.2553	9577.242	242.7584	0.9037	120695.2	146595.2	10000	136595				

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	Mandate, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
10.9669	117.8668	87.7702	7.3469	145.6358		5.9681	2.479	2.9628	11712.51	5206.901	1345.686	2328.624	3993.428	835.8744	10981.72	283.1535	0.9986	116585.3	143750.2	11264.87	132485.3	140124	2.8881	0
11.7072	70.1408	87.0771	7.7951	147.4272		5.207	2.1711	1.9937	11688.33	5371.823	1362.066	219.797	3328.075	904.5644	9038.015	961.9852	0.5772	122424.6	148324.6	10000	138324.6	145105.6	1.974	1
10.9271	125.5096	88.7215	8.0769	155.4156		5.8423	2.5747	3.104	12533.44	5234.172	1348.394	2728.131	3973.506	847.2328	10927.14	283.4771	1	115872.5	142983.1	11210.62	131772.5	139374.4	3.0256	0
12.0269	124.7537	89.0735	6.7241	146.8239		6.2021	2.5416	3.0553	12090.86	5156.216	1340.651	1997.016	4361.982	833	11994.93	283.2404	0.9973	115445.4	143623.6	12278.17	131345.4	139671.2	2.9712	0
11.247	107.0823	87.0443	7.3495	147.7855		5.7033	2.3478	2.7693	11777.75	5264.285	1351.385	2048.211	3852.093	859.7745	10569.28	282.7635	0.9397	117877.3	144629.3	10852.04	133777.3	141136	2.7024	0
11.2716	117.2204	87.0817	9.8172	150.5231		6.2113	2.4844	2.9707	11630.09	5142.226	1340.454	2128.707	3771.701	833	10336.91	283.2459	0.9171	116958	143478.1	10620.15	132858	140059.5	2.8999	0
11.8943	89.6787	87.1655	8.5834	154.9778		4.9398	2.1119	2.4213	12178.48	5429.716	1367.816	2279.907	3770.362	928.6766	10303.47	282.0016	0.8663	119897.1	146382.5	10585.47	135797.1	142975.1	2.3649	0
11.6078	177.6966	86.0717	8.4227	148.1199		7.334	3.1276	3.9194	11501.37	4910.975	1316.293	1818.092	4221.009	833	11600.78	285.2056	1	111127.8	138920.8	11892.99	127027.8	135092.5	3.8113	0
12.5415	79.8205	87.1562	8.3369	152.4889		4.5747	1.9949	2.2201	12019.09	5508.823	1375.673	2206.282	3564.684	961.6248	9680.482	319.5182	0.7719	121340.7	147240.7	10000	137240.7	144021.7	2.1729	1
12.4501	121.1209	88.1744	8.2235	152.4271		6.0362	2.4884	2.9768	12186.69	5192.158	1344.221	1905.897	4509.416	833	12399.98	283.0203	0.996	115599.6	144182.6	12683	131499.6	140099.9	2.8925	0
11.5797	106.7751	87.3616	9.2128	154.5451		5.7877	2.3526	2.7764	12077.51	5245.998	1349.569	2524.827	3702.96	852.1583	10124.16	282.8277	0.8743	118126.9	144433.9	10406.99	134026.9	141083.9	2.712	0
11.1314	114.1247	86.5453	8.3918	151.4775		6.0024	2.439	2.9038	11838.5	5199.471	1344.947	2194.6	3864.48	833	10609.85	283.0631	0.9531	117137.4	143930.3	10892.92	133037.4	140423.9	2.8331	0
9.8669	139.4809	87.2375	8.7243	153.7046		4.4808	2.7656	3.3854	12067.84	5529.163	1377.694	2200.925	3587.86	970.0964	9866.893	284.2496	1	115057.4	141108.5	10151.14	130957.4	137840.9	3.307	0
11.7033	136.7052	88.0086	7.8579	145.3433		6.5221	2.6896	3.2735	11649.37	5086.883	1333.765	1737.98	4255.399	833	11703.28	283.7589	1	114478.9	142365.9	11987.04	130378.9	138507.3	3.1847	0
10.7402	98.5518	86.598	5.7718	143.0636		5.8726	2.3782	2.6204	11563.3	5322.609	1347.742	2282.208	3459.244	844.499	9461.531	538.4686	0.8809	119169.2	145069.2	10000	135069.2	141850.2	2.5713	1
12.1522	142.389	86.7799	8.1104	146.1967		7.1421	2.7602	3.3776	11501.22	4952.553	1320.423	1815.502	4177.734	833	11464.77	284.0212	0.9434	114080.6	141729.4	11748.79	129890.6	137947.5	3.2875	0
11.3653	102.115	88.0724	7.2578	141.7068		5.5054	2.2839	2.675	11451.98	5307.174	1356.645	1706.213	3803.315	877.6379	10423.59	282.5655	0.9171	118471.6	145077.8	10706.15	134371.6	141631.5	2.6115	0
11.6919	159.7542	87.4901	8.1693	150.9715		5.3881	2.9435	3.6479	11975.19	5332.585	1358.169	1472.614	4251.599	888.2151	11691.9	284.5907	1	112508	140384.4	11976.49	128408	136529.2	3.5477	0
11.3269	137.8332	88.5929	7.9875	144.1546		6.8771	2.7154	3.3115	11619.64	5009.956	1326.124	1986.461	4062.099	833	11166.75	283.252	0.9859	114620.5	141971.1	11450.66	130520.5	138285.2	3.2255	0
11.8745	109.6822	86.9775	8.6782	141.6696		5.921	2.3881	2.8287	11092.64	5217.109	1346.699	1526.43	3760.272	840.126	10275.31	282.3903	0.8653	117751.3	144209.6	10558.25	133651.3	140810.9	2.7621	0
11.9294	136.1388	85.7184	7.8904	154.8031		6.2486	2.6777	3.2559	12048.03	5146.129	1339.649	1989.298	4337.954	833	11929.37	283.6913	1	114427.1	142540.2	12213.07	130327.1	138608.8	3.1661	0
10.9547	139.8092	87.3589	9.3068	147.3982		6.7438	2.7433	3.3525	11504.75	5038.833	1328.992	1918.413	3983.516	833	10954.67	284.032	1	114538.6	141677.3	11238.7	130438.6	138059.6	3.2669	0
12.2605	90.9665	88.0778	9.8303	152.7669		5.2057	2.1731	2.4641	11953.63	5372.908	1362.093	2361.359	3551.401	904.6789	9655.111	344.8893	0.7875	120037.8	145937.8	10000	135937.8	142718.8	2.412	1
13.0548	71.6607	87.5782	9.4433	153.6783		4.2743	1.907	2.0328	12007.64	5373.904	1382.137	2114.686	3546.182	988.7312	10240.61	285.3896	0.7357	122323.1	148223.1	10000	138223.1	145004.1	1.9926	1
10.1168	112.347	87.3587	7.6209	150.3862		4.9661	2.4263	2.885	11991.47	5424.002	1367.249	2193.069	3678.849	926.297	10116.84	283.9676	1	117554.6	143854.5	10399.91	133454.6	140506.8	2.8178	0
11.992	117.8244	87.0993	6.5333	157.3421		5.3888	2.4565	2.9297	12676.43	5332.425	1358.153	2334.955	4360.742	888.1548	10912.04	282.0738	1	116110.6	144285.6	12275.01	132010.6	140334.3	2.8495	0
12.0828	114.7855	86.3851	9.4655	142.7474		6.5989	2.5622	2.9422	10959.05	5070.239	1332.112	1817.482	3504.213	833	9527.504	472.4965	0.7885	117471.2	143371.2	10000	133371.2	140152.2	2.8829	1
12.5449	144.0353	86.9635	9.1344	137.5001		7.727	2.8222	3.467	10701.51	4825.82	1307.835	1790.695	3542.162	833	9615.585	384.4152	0.7665	114700.7	140600.7	10000	130600.7	137387.1	3.3913	1
10.632	118.1084	87.2985	8.594	153.9229		5.3653	2.4893	2.978	12080.59	5337.518	1358.659	2225.948	3866.193	890.2761	10632.04	283.2282	1	116729.6	143544.9	10915.26	132629.6	140031.2	2.9051	0
11.3085	110.8909	87.5899	10.0594	150.4927		6.2531	2.4777	2.8679	11631.19	5145.155	1339.553	2396.847	3514.635	833	9594.031	405.9686	0.8484	117879.1	143779.1	10000	133779.1	140560.1	2.8081	1
12.6093	132.6877	86.8736	8.1378	153.0241		7.7436	2.8717	3.2688	10670.43	4822.235	1307.478	1853.357	3452.365	833	9354.863	645.1371	0.7419	115702.1	141602.1	10000	131602.1	138383.1	3.2075	1
12.0727	115.8667	87.588	7.5025	153.4411		5.3338	2.4303	2.891	12256.62	5344.334	1359.336	1867.767	4390.067	893.1152	10272.69	282.8693	1	116263.3	144518.9	12355.55	132163.3	140541.6	2.8115	0
11.3506	140.532	87.1899	7.5551	153.2364		4.3967	2.7419	3.3506	12202.95	5547.379	1379.503	1768.907	4127.764	977.6833	11350.56	283.9761	1	114296.1	141830.7	11634.54	130196.1	138085.5	3.2621	0
11.8516	79.5273	86.1199	6.7512	152.3428		4.5601	1.9968	2.2134	12091.24	5517.971	1375.986	2289.115	3549.237	962.936	9667.942	332.0584	0.8157	121373.9	147273.9	10000	137273.9	144054.9	2.1668	1
11.9417	91.1661	86.7512	8.5755	156.6682		5.2657	2.1927	2.4674	12247.65	5359.092	1360.802	2691.991	3534.499	899.262	9621.251	378.7487	0.8057	120013.6	145913.6	10000	135913.6	142694.6	2.4164	1
11.2027	100.2151	87.2005	9.6502	140.1486		6.978	2.6698	2.65	10688.56	4988.096	1323.953	2038.376	3283.136	833	8931.877	1088.123	0.7973	118909.9	144809.9	10000	134809.9	141590.9	2.6189	1
10.9988	87.5606	87.6334	8.9805	149.3288		4.8183	2.0865	2.3839	11745.13	5456.033	1370.43	1929.9	3647.133	939.6379	9990.862	281.9458	0.9084	120298.8	146471.6	10272.81	136198.8	143164.8	2.3301	0
10.3435	120.8063	85.8618	9.0302	159.9115		5.0788	2.5295	3.0372	11978.93	5399.586	1364.824	2135.117	3761.274	916.1275	10343.5	283.3962	1	116600.6	143127.5	10626.9	132500.6	139706.6	2.9647	0
11.4499	93.8785	88.4987	7.64	139.2394		5.9561	2.3872	2.5223	11258.73	5209.503	1345.944	2044.391	3419.933	836.9579	9314.307	685.8929	0.8135	119663	145563	10000	135563	142344	2.807	0
12.5344	114.1697	87.0199	6.6703	152.7957		5.4913	2.3991	2.8451	12277.07	5310.218	1355.947	1772.023	4657.98	878.906	12534.45	282.717	1	116208.2	144925.4	12817.16	132108.2	140799.5	2.7641	0
12.3249	150.4897	86.8422	9.5288	150.3885		7.1837	2.8293	3.4795	11626.84	4943.522	1319.526	1659.398	4469.393	833	12290.26	284.1361	0.9972	113016.7	141491.1	12574.39	128916.7	137444.3	3.38	0
10.9481	116.8681	87.																						

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	10 kg Mandate, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
10.9709	112.1543	88.9311	8.6275	147.8796		5.2107	2.4061	2.8552	11875.27	5371.006	1361.985	1846.723	3989.331	904.224	10970.66	282.9132	1	117162.5	144316.1	11253.58	133062.5	140693.6	2.7836	0
11.6959	117.6479	86.92	7.1691	158.4359		3.8804	2.4607	2.9358	12635.4	5659.24	1390.613	1906.202	4253.069	1024.274	116268.9	283.0112	1	116268.9	144147.8	11978.96	132168.9	140291.8	2.8573	0
11.3026	122.7564	87.1846	9.9483	146.1904		6.4389	2.5516	3.0698	12291.21	5104.907	1335.555	1805.8	3809.949	833	10445.59	283.4579	0.9242	116362.4	142991.5	10729.05	132262.4	139537.8	2.9956	0
11.1395	123.801	88.2656	6.529	151.0447		5.6095	2.5491	3.0662	12345.87	5284.605	1353.403	2386.903	4050.726	868.2378	11139.5	283.3668	1	115936.4	143259.3	11422.87	131836.4	139582.3	2.9875	0
10.6609	119.9884	87.6461	7.8384	144.1999		4.8602	2.5124	3.012	11508.26	5446.959	1369.529	1477.216	3876.702	935.8585	10660.93	283.3016	1	116530.9	143375.2	10944.23	132430.9	139852.2	2.938	0
12.8744	142.7166	87.7676	9.4645	144.3236		7.9789	2.9357	3.443	11300.98	4771.246	1302.415	2499.199	3493.124	833	9460.262	539.7376	0.7348	114797.3	140697.3	10000	130697.3	137478.3	3.3736	1
10.6055	91.8595	87.2496	8.1379	144.5208		5.2269	2.2022	2.4822	11433.29	5367.496	1361.636	1886.612	3512.782	902.7621	9622.266	377.7344	0.9073	119935.4	145835.4	10000	135835.4	142616.4	2.4307	1
12.8292	178.0724	88.2027	10.4828	148.32		7.3975	3.0969	3.8742	11527.41	4897.213	1341.926	1415.114	4665.154	833	12829.18	284.9208	1	110595.6	139609.7	13114.1	126495.6	135388.3	3.7571	0
11.8971	128.8115	87.5978	8.5968	156.549		5.9985	2.5926	3.1304	12367.53	5200.335	1345.033	2260.817	4326.203	833.1394	11897.06	283.418	1	115111.2	143191.7	12180.48	131011.2	139270.8	3.0446	0
12.5527	124.9817	86.7158	8.5125	148.0444		6.5468	2.567	3.0926	11577.55	5081.52	1333.232	1910.034	4017.767	833	10985.42	283.4444	0.8751	115895.6	143064.5	11268.86	131795.6	139437	3.0141	0
12.4931	170.8107	87.2064	8.1918	142.6265		8.2289	3.0609	3.821	11269.58	4717.076	1297.035	1807.988	4212.485	833	11549.38	284.9959	0.9245	111683.9	139418.3	11834.38	127583.9	135608.8	3.7166	0
11.9085	130.085	87.1458	8.9601	134.2686		7.2308	2.7415	3.2247	10497.88	4933.326	1318.513	1501.588	3509.449	833	9550.659	449.3040	0.802	115974.9	141874.9	10000	131874.9	138655.9	3.1575	1
11.4444	147.9728	86.595	9.3761	134.3562		8.4613	3.0877	3.5288	10374.83	4666.714	1292.032	1774.215	3406.869	833	9276.934	283.0659	0.8106	114305.4	140205.4	10000	130205.4	136986.4	3.4638	1
10.4371	104.6505	88.6997	8.2737	155.0146		4.0293	2.3179	2.7252	12467.21	5626.977	1387.409	2244.664	3795.325	1010.836	10437.15	282.6778	1	118196.4	144816.3	10719.82	134096.4	141365.5	2.6603	0
11.1175	170.5102	86.6969	9.7319	150.356		6.0538	3.0697	3.8339	11717.99	5188.335	1343.841	1908.085	4042.726	833	11117.5	285.0892	1	111888.2	139190.8	11402.59	127788.2	135520.3	3.7328	0
12.7251	150.323	87.8342	10.2941	139.5434		7.7092	2.8773	3.5502	10820.21	4829.665	1308.217	1658.118	3789.207	833	10318.21	284.5642	0.8109	113896.3	140399.1	10602.78	129796.3	136986	3.4639	0
11.0758	75.4617	86.706	9.9473	143.148		5.2844	2.2013	2.1177	10987.86	5355.044	1360.399	1618.52	354.32	897.5758	9142.91	857.9001	0.8255	121784	147684	10000	137684	144465	2.0915	1
10.857	101.113	87.922	7.5422	146.5959		5.4441	2.2742	2.6608	11783.35	5320.446	1356.963	2097.892	3722.886	883.1659	10215.33	282.5488	0.9409	118682	145079.9	10497.88	134582	141700.6	2.5988	0
10.8665	117.6956	88.3542	8.6436	149.0978		5.2692	2.4791	2.9629	11884.67	5358.341	1360.727	1913.209	3951.448	898.9489	10865.38	283.167	1	116658.9	143708.6	11149.65	132558.9	140119.5	2.8889	0
10.3956	116.1445	87.8252	9.1212	155.7204		4.7614	2.4694	2.9486	12255.82	5468.36	1371.654	2288.804	3780.233	944.7721	10395.64	283.1891	1	117037.3	143616.2	10678.83	132937.3	140178.6	2.8781	0
11.9388	107.1753	87.4368	8.5001	155.9241		5.6188	2.3315	2.7453	12308.13	5282.597	1353.204	2236.739	4166.19	867.4016	11440.78	282.6161	0.9583	117441.5	145064.9	11723.39	133341.5	141291.1	2.6739	0
11.7048	124.0536	87.2565	9.3489	156.4355		5.7596	2.5396	3.0822	12187.51	5226.129	1347.595	2111.604	4256.298	843.8829	11704.82	283.2682	1	115647.5	143535.6	11988.09	131547.5	139676.6	2.9702	0
10.8408	78.0667	86.4694	7.5272	137.7668		6.9625	2.6595	2.1714	10875.62	4991.463	1324.288	2260.114	3064.575	833	8320.216	1679.784	0.7675	121342.2	147242.2	10000	137242.2	144023.2	2.1726	1
11.0043	116.0157	87.4443	5.7858	151.094		4.418	2.4549	2.9272	12338.1	5542.775	1379.046	2036.933	4001.576	975.7658	11004.34	283.071	1	116759.5	143946.9	11287.41	132659.5	140313.5	2.8533	0
11.1846	86.6668	87.5331	7.8741	152.6417		5.3699	2.2283	2.3693	11359.19	5336.523	1358.56	2719.318	3453.02	889.8617	9422.278	577.7224	0.8424	120497.6	146397.6	10000	136397.6	143178.6	2.3276	1
11.5653	129.4212	86.7326	8.4436	145.5402		6.6142	2.6163	3.1678	11394.19	5066.925	1331.783	1717.657	4042.824	833	11102.83	283.5989	0.9626	115421.7	142708.2	11386.42	131321.7	139042.9	3.0865	0
11.6595	114.6919	87.1062	9.6675	144.9246		6.0752	2.4451	2.9127	11222.78	5183.713	1343.382	1567.619	3893.663	833	10668.34	283.0766	0.915	117052.4	143903.8	10951.42	132952.4	140378.6	2.8418	0
12.2953	111.6345	87.9483	10.1673	136.5206		7.6502	2.8522	2.8759	10618.7	4842.448	1309.487	1944.891	3286.874	833	8893.924	1106.706	0.7234	117700.7	143600.7	10000	133600.7	140381.7	2.8404	1
11.3311	134.6352	87.87	8.3875	150.711		6.6643	2.6752	3.2522	11978.89	5056.076	1330.705	2249.668	4107.347	833	11294.83	283.7637	0.9968	114852.2	142330.8	11578.59	130752.2	138603.6	3.1671	0
12.7259	145.0972	88.4372	8.2598	142.9203		7.3658	2.7984	3.4338	11458.98	4904.082	1315.609	1925.916	4078.371	833	11151.9	284.1883	0.8763	113982.6	141318.6	11436.09	129882.6	137637.4	3.3444	0
10.1633	122.9315	87.7161	7.1473	143.6948		4.9944	2.56	3.0822	11569.26	5417.886	1366.641	1763.232	3695.748	923.7495	10163.31	283.5199	1	116477.8	142824.6	10446.83	132377.8	139461.8	3.0096	0
11.077	130.6204	87.3361	5.6971	157.6677		3.4471	2.6329	3.1898	12871.82	5753.138	1399.939	2225.373	4027.987	1063.382	11076.96	283.6514	1	115321.8	142582.4	11360.62	131221.8	138925.5	3.108	0
12.2642	136.4459	87.2139	7.839	157.9157		5.4013	2.6733	3.2494	12534.55	5329.725	1357.885	2098.207	4459.705	887.0304	12264.19	283.6346	1	114247.3	142695.1	12547.83	130147.3	138656	3.1575	0
11.6198	114.0886	88.869	8.7937	152.5247		5.6677	2.4173	2.8719	12213.46	5271.991	1352.15	2098.946	4225.388	862.984	11619.82	282.8779	1	116656	144458.7	11902.69	132556	140627.3	2.7957	0
9.9076	133.8102	87.0495	8.3367	144.563		7.567	2.8823	3.2886	11378.97	4860.48	1311.278	2561.535	3410.673	833	9360.346	639.8536	0.9448	115598	141498	10000	131498	138279	3.2266	1
10.6258	132.3024	88.0634	8.3708	154.5143		4.5516	2.6634	3.2347	12313.65	5513.811	1376.169	2194.503	3863.914	963.7021	10625.77	283.8089	1	115372.7	142182.3	10909.58	131272.7	138670.5	3.1548	0
12.4621	113.3365	86.7192	6.5829	155.3936		5.3336	2.3901	2.8318	12452.67	5344.381	1359.34	1922.143	4531.673	893.1346	12462.1	282.6959	1	116325.1	144969.9	12744.8	132225.1	140867.3	2.7517	0
11.5922	117.5571	85.9846	8.9756	136.2819		8.3614	3.0943	3.8701	10494.92	4688.364	1294.163	1406.735	3870.643	833	10606.91	285.2473	0.915	112018.9	138811.1	10892.16	127918.9	135304.9	3.7724	0
10.6989	176.5828	87.4587	9.1114	139.1706		4.8824	3.154	3.9582	10903.63	4662.14	1291.578	1975.478	3739.416	833	10269.51	285.4984	0.9599	111765	138220	10555.01	127665	134822.3	3.8609	0
11.3853	152.6182	88.1833	9.1761	148.2534		6.5475	2.8754	3.5474	11713.08	5081.384	1333.219	1923.357	4140.117	833	11385.33	284.4102	1	113323.6	140803.3	11669.74	129133.6	137048.8	3.4527	0
11.5266	168.142	88.1095	7.6935	152.4543		5.6216	3.0345	3.8121	12259.75	5281.981	1353.143	2163.988	4191.498	867.1449	11526.62	284.9128	1	119030.6	139615.1	11811.53	127803.6	135813	3.6791	0
11.097	114.3109	88.4385	8.8702	144.7398		6.2527																		

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	10 kg Mandate, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
12.9481	197.621	86.5501	8.4418	153.0759		7.306	3.2751	4.1371	11956.5	4917.033	1316.895	1779.178	4708.392	833	12948.09	285.473		109138	138271.5	13233.57	125038	134011.6	4.0097	0
11.382	163.7841	88.6698	7.2836	142.1021		6.3334	2.9937	3.7219	11565.15	5127.76	1337.825	4138.917	833	11382.02	284.7999		112313.1	139879.9	11666.82	128213.1	13124.4	3.622	0	
12.2563	158.2731	87.6892	8.5627	154.1175		6.5475	2.9131	3.6032	12194.77	5081.373	1333.218	2088.326	4456.85	833	12256.34	284.4123		112385.9	140826.7	12540.75	128285.9	136789.8	3.4999	0
11.6535	137.1945	86.9133	7.0022	158.645		4.7016	2.6964	3.2835	12677.5	5481.314	1372.941	2233.437	4237.644	950.1671	11653.52	283.7876		114457.5	142294.8	11937.31	130357.5	138452.2	3.1949	0
11.6597	128.7521	87.1903	9.1042	143.256		6.9717	2.6747	3.2018	11186.31	4989.473	1324.09	2097.641	3540.103	833	9650.705	249.2947	0.8277	116115.8	142015.8	10000	132015.8	138796.8	3.1316	1
11.214	105.4549	86.9449	7.0343	148.695		5.6451	2.3284	2.7407	11882.58	5276.892	1352.637	2175.158	3810.864	865.0255	10452.24	282.7113	0.9321	118104.5	144739.5	10734.96	134004.5	141283.9	2.6753	0
9.8764	134.0921	87.2166	8.3337	144.2281		6.7317	2.7025	3.2923	11377.14	5041.46	1329.253	2185.173	3585.71	833	9860.474	284.0733	0.9984	115555.9	141600.4	10144.51	131455.9	138334.9	3.2164	0
11.9538	187.5432	87.0459	7.7124	152.5863		7.4222	3.2121	4.044	11505.21	4891.855	1314.394	2317.131	4346.83	833	11953.79	285.4278		110252.6	138391.8	12239.21	126152.6	134452	3.9289	0
12.2458	134.1975	88.8266	9.6273	145.2599		7.0333	2.6944	3.2804	12104.49	4976.111	1322.763	2209.768	3760.843	833	10259.18	283.9591	0.8378	115366.4	141807.6	10543.14	131264.5	138413.8	3.2019	0
10.7949	164.0722	88.1345	8.6941	146.6324		6.0268	3.0146	3.7527	11648.54	5194.129	1344.423	1980.408	3894.518	833	10709.93	284.9669		112575.3	139470.2	10994.89	128475.3	135930.9	3.6575	0
10.9843	117.2358	88.1372	9.2822	147.9054		6.0363	2.4736	2.9549	11663.07	5192.132	1344.219	1945.358	3946.362	833	10849.22	283.151	0.9877	116712.6	143745	11132.37	132612.6	140161.5	2.8812	0
11.7199	89.2089	87.6949	6.6725	138.4878		6.4991	2.529	2.4202	11220.44	5091.865	1334.26	2277.982	3281.335	833	8903.113	1096.887	0.7597	120127.6	146027.6	10000	136027.6	142808.6	2.3955	1
11.1512	89.6028	87.7357	8.6941	144.0475		6.2383	2.4657	2.4297	11385.77	5148.363	1339.871	2342.999	3319.532	833	9039.101	1060.893	0.8106	120103.3	146003.3	10000	136003.3	142784.3	2.3999	1
10.3428	103.6494	86.8995	6.5565	146.4105		5.4983	2.3103	2.7139	11763.06	5308.701	1355.797	2129.442	3688.845	878.274	10138.75	282.6838	0.9803	118449.2	144770.6	10421.44	134349.2	141416	2.651	0
12.7583	151.6773	86.4739	5.6289	147.0661		7.272	2.8339	3.4864	11889.56	4924.4	1317.627	1825.068	4587.463	833	12612.03	284.1074	0.9885	122775.8	141572	12896.14	134720.8	137420.7	3.3841	0
12.0276	160.7353	87.7479	7.4056	141.3327		7.861	2.9639	3.6779	11355	4796.757	1304.951	1896.859	4121.412	833	11308.48	284.7123	0.9422	12592.2	140085.4	11593.2	128492.2	136353.5	3.5799	0
11.0251	147.1604	86.7224	6.8067	144.5812		4.9751	2.8245	3.4724	11554.3	5227.057	1367.055	1428.575	4009.13	925.4869	11025.11	284.2919		113859.1	141068.5	11309.4	129759.1	137428	3.3828	0
11.2206	129.5283	87.1534	10.1316	136.3324		8.2238	3.0189	3.2089	10500.57	4718.176	1297.144	1946.992	3303.254	833	8988.968	1011.032	0.8011	115948.2	141848.2	10000	131848.2	138629.2	3.1624	1
11.3457	110.8752	88.7232	5.9631	158.5936		3.5354	2.3818	2.8194	13125.22	5733.989	1398.037	2410.901	4125.7	1055.406	11345.68	282.7915		117110.5	144369	11628.47	133010.5	140895.8	2.7465	0
11.7597	98.3391	87.4134	9.3433	145.4665		6.0592	2.4132	2.6154	11356.59	5187.172	1343.726	2140.634	3450.056	833	9386.572	613.4277	0.7982	119181.3	145081.3	10000	135081.3	141862.3	2.5691	1
12.4927	151.571	86.4592	6.7333	151.9035		6.2733	2.8358	3.4892	11210.65	5140.776	1339.118	1852.963	4542.793	833	12492.68	284.1298		112837.1	141513.9	12776.81	128737.1	137401	3.3877	0
10.2669	132.4505	87.9243	8.3374	155.5466		4.6104	2.6735	3.2496	12379.48	5501.073	1374.904	2409.687	3733.42	958.3967	10266.91	283.8879		115523.2	141974	10550.79	131423.2	138577.7	3.1718	0
11.0774	95.4085	86.6842	8.7861	156.51		4.7259	2.1792	2.5206	12191.83	5476.066	1372.42	1965.211	4028.151	407.9814	11077.42	282.1512		118867.4	146127	11359.57	134767.4	142470.4	2.4575	0
11.047	121.8719	87.1631	7.3553	151.1656		5.3941	2.5274	3.0341	12064.2	5313.271	1358.038	2068.129	4017.083	887.6745	11046.98	283.3016		111665.5	143395.8	11330.29	132065.5	139748.6	2.957	0
12.9967	78.6791	88.1762	7.2969	143.5696		4.7756	2.0461	2.1935	11611.8	5465.281	1371.349	1904.993	3524.693	943.4893	9545.499	454.501	0.7345	121456.7	147356.7	10000	137356.7	144137.7	2.1516	1
11.8337	151.1811	87.9387	10.0743	142.3423		7.6619	2.8838	3.5597	11083.39	4839.928	1309.237	1883.16	3816.071	833	10438.2	284.5691	0.8821	113769.9	140392.6	10722.76	129669.9	136941	3.4722	0
12.0682	133.6335	88.342	7.5813	150.8484		5.0877	2.6686	3.2425	12182.62	5397.658	1364.632	1714.572	4388.347	915.3246	12068.2	283.6441		114409.4	142661.2	12351.85	130309.4	138685.1	3.1521	0
10.5042	99.1905	87.3918	9.0404	139.3104		6.0428	2.4294	2.6328	10915.2	5190.728	1344.079	1718.997	3426.4	833	9378.098	621.9025	0.8928	119087.2	144987.2	10000	134987.2	141768.2	2.5864	1
11.9032	140.2409	87.689	9.3581	159.1157		5.1148	2.7253	3.2621	12228.67	5391.783	1364.049	1829.512	4328.452	912.8776	11903.25	283.8496		114073.3	142160.4	12187.1	129973.3	138237.4	3.2343	0
11.999	95.2812	87.378	8.5028	146.4134		5.2737	1.9986	2.5492	11786.69	5357.357	1360.629	2126.66	3641.506	898.5391	9926.886	282.3296	0.8273	119461.7	145579.9	10209.22	135361.7	142284.6	2.4916	0
11.0646	110.1143	87.0342	9.2844	152.534		5.8477	2.3907	2.8326	11859.48	5232.993	1348.277	2223.499	3805.968	846.7415	10444.83	282.9203	0.944	117621.7	144249.5	10727.75	133521.7	140796.2	2.7647	0
12.4082	168.8404	87.2634	9.4647	157.8825		6.2487	3.0176	3.7573	12283.05	5146.11	1339.648	2050.234	4512.062	833	12408.17	284.7284		111477.4	14070.3	12692.9	127377.4	135984.4	3.6477	0
11.1209	91.631	86.8648	8.8276	156.0405		4.1628	2.1253	2.4411	11276.97	5598.067	1384.537	1749.603	4043.97	998.7948	11120.92	281.9689		119267.0	146563.6	11402.89	135167.0	142893	2.38	0
12.3432	96.4863	87.1005	10.313	143.7973		5.8123	2.3392	2.578	11041.84	5240.679	1349.04	1707.81	3492.365	849.9428	9481.549	518.4509	0.7682	119398.8	145298.8	10000	135298.8	142079.8	2.5292	1
12.5053	117.5404	88.2482	8.6021	146.4859		6.1924	2.4712	2.9513	11664.27	5158.308	1340.859	1858.532	4071.567	833	11142.82	283.1091	0.8911	116548.2	143868.7	11425.93	132442.8	140190.7	2.8759	0
11.4935	89.4354	86.6898	7.8008	149.7752		5.6676	2.3064	2.4284	11815.62	5272.025	1352.154	2494.118	3432.324	862.9983	9347.96	282.0398	0.8133	120168.9	146068.9	10000	136068.9	142849.9	2.3879	1
11.1387	158.72	87.694	7.6404	150.7745		6.1082	2.9471	3.6532	12070.04	5176.567	1342.673	2265.375	4050.426	833	11138.67	284.6812		112830.7	140154.1	11423.35	128730.7	136476.9	3.5573	0
11.5149	165.2972	86.1964	7.1765	143.4342		7.652	3.0058	3.7397	11334.16	4842.058	1309.448	1760.448	4187.205	833	11514.81	284.8202		112135.1	139834.7	11799.63	128035.1	136036.4	3.6381	0
11.1758	158.6938	87.7559	7.493	145.3664		5.9459	3.6913	4.1667	11667.53	5326.387	1357.553	1632.028	4063.922	885.6401	11175.79	284.8718		112816.9	140177.4	11460.46	128716.9	136488.3	3.5552	0
11.0566	134.7735	88.4425	7.9845	148.7405		5.981	2.6825	3.2629	11984.46	5204.126	1345.41	2157.62	4020.587	834.7185	11056.62	283.8177		114948.2	142188.6	11340.44	130848.2	138538.1	3.1791	0
11.1485	163.7278	87.341	9.4484	135.724		8.3795	3.0802	3.7853	10571.9	4684.449	1293.794	1834.141	3524.512	833	9630.188	369.812	0.8638	113014.1	138914.1	10000	128914.1	135695.1	3.7008	1
11.9149	121.3266	88.2781	8.8882	154.0895		6.2244	2.5102	3.0089	12233.15	5151.387	1340.172	2312.804	4193.79											

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	10 kg Mandate, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
10.1517	127.8993	88.8347	8.3744	154.8588		5.003	2.6213	3.1726	12459.98	5416.011	1366.455	2661.019	3691.527	922.9688	10151.7	283.7273	1	116005	142340.5	10435.43	131905	138981.3	3.0978	0
11.524	132.9242	88.2921	10.2831	144.799		6.8278	2.667	3.2401	11295.62	5020.633	1327.185	1781.217	3931.588	833	10785.39	283.8009	0.9359	115242	142211.2	11069.19	131142	138648	3.1589	0
12.4004	114.6175	86.91	9.1767	139.4217		6.2484	2.4637	2.9401	10837.71	5146.177	1336.654	1534.823	3582.059	833	9736.892	283.2453	0.7852	117506	143426.1	10020.14	133406	140200.6	2.874	0
11.7681	149.548	88.3802	7.1484	137.0265		7.638	2.872	3.5423	11130.92	4845.11	1309.751	2102.233	3728.822	833	10189.72	285.5664	0.8659	114019.8	140394	10474.28	129919.8	137022.4	3.4572	0
11.9383	179.0489	87.7016	7.866	144.1084		7.0464	3.1314	3.9251	11504.97	4973.289	1322.482	1633.013	4341.188	833	11938.27	285.1678	1	110889.3	139012.7	12223.44	126789.3	135078	3.814	0
10.8089	161.9314	86.7111	9.1328	152.4697		5.1211	2.9896	3.7159	11828.34	5390.434	1363.914	1829.171	3930.505	912.3155	10808.89	284.8694	1	112707.8	139701.6	11093.76	128607.8	136130.5	3.6209	0
11.4506	106.0375	88.1171	8.8542	149.0739		5.183	2.3163	2.7229	11816.03	5377.016	1362.582	1603.856	4163.847	906.7273	11450.58	282.5651	1	117553.9	145187.1	11733.15	133453.9	141410.2	2.6521	0
11.7226	196.7427	86.8507	8.5494	154.9386		5.8634	3.3038	4.1793	12131.89	5229.604	1347.94	2044.248	4262.773	845.3299	11722.63	285.7642	1	109684.1	137592.5	12008.39	125584.1	133727	4.0619	0
11.0267	111.7387	86.9536	9.0629	151.6296		6.0237	2.424	2.8815	11810.54	5194.856	1344.489	1439.286	3596.907	833	9844.787	283.0988	0.8928	117748	143775.9	10127.89	133648	140515.7	2.8162	0
12.5913	184.1089	86.8866	6.9245	151.7844		6.0755	3.1613	3.9692	12045.93	5183.632	1343.374	1705.275	4578.649	833	12591.29	285.1641	1	110245.6	139022	12876.45	126145.6	134877.1	3.8509	0
10.9148	144.3215	87.7171	7.0353	148.4645		5.6289	2.7955	3.4296	11978.39	5280.413	1352.987	2107.49	3969.008	866.4922	10914.77	284.2105	1	114156	141255	11198.98	130056	137650	3.342	0
11.024	129.9203	87.0937	9.6002	146.212		6.6505	2.6338	3.1911	11330.48	5059.062	1331.002	1819.528	3885.89	833	10675.54	283.7074	0.9684	115572.1	142431.4	10959.25	131472.1	138903.6	3.112	0
10.9585	149.6533	86.052	7.9369	154.5819		5.6829	2.8538	3.5155	12075.18	5073.711	1332.457	2449.098	3984.91	833	10958.51	284.3978	1	113673.1	140816	11242.9	129573.1	137196.9	3.8252	0
11.362	136.367	86.839	7.7549	150.8195		5.6974	2.6822	3.2625	11927.42	5265.56	1351.512	1916.387	4131.654	860.3057	11362.05	283.7778	1	114755	142300.8	11645.83	130655	138552	3.1765	0
11.8078	118.7976	86.9477	7.8876	151.3886		5.5223	2.4726	2.9535	11668.79	5303.496	1355.28	1738.158	4293.755	876.1061	11807.83	283.0374	1	116103.7	144309.4	12090.87	132003.7	140202.5	2.8737	0
12.8539	128.8893	87.069	8.6489	140.9986		7.49	2.7994	3.2018	11067.12	4877.159	1321.935	2157.572	3474.558	833	9407.627	282.3735	0.7319	116608.3	141968.3	10000	131968.3	138743.9	3.1403	1
11.2194	215.0786	87.266	9.6218	134.8389		9.0171	3.4807	4.4401	11045.59	4546.301	1280.073	1328.448	4079.771	833	11219.37	286.4293	1	108622.5	136028.3	11505.8	124522.5	132324.6	4.3192	0
11.2124	184.3036	86.9499	9.1484	141.8781		8.3221	3.2027	4.0302	11038.33	4696.888	1295.027	1734.313	4077.124	833	11212.09	285.5138	1	110791.7	138189.3	11497.61	126691.7	134488.2	3.9222	0
11.1685	81.4653	87.0257	9.0802	158.9709		3.7893	1.9768	2.2222	11399.07	5678.98	1392.574	1823.731	4061.286	1032.495	11168.50	281.4743	1	120390.8	147740.8	11450.02	136290.8	144055	2.1668	0
11.7828	117.5835	86.8187	9.4441	153.0418		6.1103	2.4699	2.9494	11841.55	5176.111	1342.627	1997.406	4090.406	833	11230.11	283.0947	0.9531	116497	143910.2	11513.2	132397	140204.1	2.8734	0
13.1284	125.9057	85.2907	8.2141	154.891		6.3412	2.5411	3.0545	11938.48	5126.064	1337.657	1639.264	4600.493	833	12635.67	283.1625	0.9625	115037.9	143856.7	12918.83	130937.9	139698.1	2.9662	0
11.6681	91.8746	86.7551	7.0375	149.7513		5.0358	2.1429	2.467	11937.82	5408.911	1365.75	2064.732	3776.413	920.0113	10331.76	282.1028	0.8855	119635.6	146149.5	10613.86	135535.6	142732.9	2.4094	0
11.2305	110.5519	87.3437	7.4731	151.2526		4.6408	2.3799	2.8167	12080.63	5494.483	1374.249	1770.438	4083.807	955.6521	11230.47	282.7982	1	117199.1	144612.4	11513.27	133099.1	140906.3	2.7445	0
10.5309	137.942	86.9745	8.317	141.9334		6.9758	2.737	3.3432	11164.12	4988.585	1324.002	1862.86	3753.676	833	10316.72	284.0943	0.9797	114994.8	141495.6	10600.81	130894.8	138083.2	3.2626	0
11.493	102.0628	87.8699	7.9647	155.047		5.4484	2.2756	2.6628	12389.05	5319.506	1356.87	2485.94	3941.959	882.7744	10816.58	282.4969	0.9411	118282.5	145281.6	11099.08	134182.5	141708.8	2.5973	0
12.9231	166.8235	87.2057	7.1973	154.1736		6.2521	2.9833	3.7068	12335.18	5145.369	1339.574	1915.932	4699.306	833	12923.09	284.5363	1	114117.5	140525.2	13207.64	127317.5	136273.6	3.5946	0
10.3489	97.1527	88.9356	10.6395	148.5458		4.9344	2.217	2.5764	11630.56	5430.886	1367.932	1737.339	3763.239	929.1641	10348.91	282.3493	1	119043.8	145575.1	10631.26	134943.8	142152.9	2.5158	0
11.3062	103.4135	88.1499	7.0561	146.9696		5.4257	2.2882	2.6822	11918.34	5324.437	1357.359	1919.904	4029.808	884.8279	11075.63	282.5137	0.9796	118011.8	145270	11358.14	133911.8	141613.8	2.6147	0
12.2277	159.0672	86.0864	9.2533	151.6611		7.6795	2.9717	3.6305	11652.59	4836.111	1308.857	1953.301	4319.324	833	11867.3	285.5273	0.9705	112488.7	140540.5	12151.82	128388.7	136628.9	3.5294	0
10.7144	170.1587	87.9679	6.6707	154.477		3.6764	3.0371	3.8449	12558.54	5303.455	1395.005	2119.257	3896.135	1042.689	11074.37	284.1741	1	112084.7	138984.3	10999.55	127984.7	135443.5	3.7469	0
12.2472	162.4076	87.8431	6.1587	150.1562		6.005	2.9564	3.667	12265.42	5198.921	1344.893	2033.084	4453.524	833	12247.19	284.5538	1	112055.1	140486.8	12531.75	127955.1	136452.9	3.5617	0
12.488	141.6915	87.8132	7.2411	152.1384		5.5121	2.7274	3.3293	12258.1	5305.701	1355.499	1776.795	4541.084	877.0246	12487.98	283.7809	1	113683	142354.8	12771.76	129583	138243.6	3.2331	0
11.6015	136.766	87.4415	8.2888	146.2301		6.8524	2.699	3.2873	11574.5	5015.317	1326.657	1872.149	4125.381	833	11337.33	283.8365	0.9772	114639.5	142160.7	11621.17	130539.9	138419.8	3.2008	0
10.1141	91.3689	88.0078	6.5673	151.4176		4.7356	2.1395	2.4621	12331.53	5473.943	1372.209	2458.418	3677.862	947.0973	10114.12	282.1125	1	119803.2	146099.4	10396.23	135703.2	142752.9	2.4057	0
11.8015	102.4408	87.5867	7.5261	148.6598		5.4549	2.276	2.6634	11901.78	5318.108	1356.731	1911.434	4031.317	882.1919	11059.64	282.4733	0.9371	118122.1	145364.2	11342.11	134022.1	141713.2	2.5965	0
10.427	205.0127	86.9785	6.3908	142.561		5.4041	3.4173	4.3465	11488.65	5329.119	1357.825	1721.282	3791.647	886.7779	10427.05	286.3544	1	109610.8	136224.2	10713.4	125510.8	132775.5	4.2365	0
12.3725	107.0172	86.755	8.6623	147.441		5.6936	2.3341	2.7491	11514.07	5266.386	1351.594	1541.156	4092.287	860.6496	11208.84	282.8493	0.9059	117571.3	144962.7	11491.48	133471.3	141263.6	2.679	0
11.5441	142.5248	86.7472	8.2229	147.3106		7.0604	2.7648	3.3843	11567.46	4970.254	1322.181	1913.792	4126.229	833	11341.87	284.0523	0.9827	114123.6	141649.6	11625.92	130023.3	137907.2	3.2949	0
11.9832	139.5085	89.1748	9.5559	147.2676		5.2673	2.715	3.111	11725.28	5358.74	1360.167	1347.133	3357.527	899.1156	11983.2	283.8059	1	1141002.1	142269.1	12267.01	130002.1	138320.3	3.2191	0
10.8185	180.5156	87.7647	6.6788	149.7798		4.1174	3.1773	3.9927	12145.03	5607.9	1385.514	1812.726	3934	1002.891	10818.5	285.4913	1	111237.3	138241.3	11103.99	127137.3	134666.9	3.8894	0
10.9167	118.1323	86.9736	7.3987	147.6829		5.5682	2.4835	2.9694	11751.85	5293.55	1354.292	1860.325	3969.716	871.9639	10916.72	283.1759	1	116592	143691.9	11199.9	132492	140086.7	2.8949	0
12.4535	136.1978	85.4761	9.3258	143.4943		6.9747	2.6954	3.2819																

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	10 kg Mandate, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding	
11.5252	84.9312	87.2452	8.656	148.9643		4.9743	2.1155	2.3327	11706.99	5422.245	1367.074	2071.874	3518.23	925.5652	9594.047	405.9528	0.8324	12072.49	146624.9	10000	136624.9	143405.9	2.2859	1	
11.7046	151.9354	86.0286	9.209	152.5531		5.9042	2.8598	3.5245	11719.07	5220.763	1347.062	1651.396	4256.202	841.6778	11704.56	284.3153		113151.9	114040.6	11988.87	129051.7	137181.4	3.428	0	
11.928	125.7758	87.6339	8.1035	143.7071		6.4679	2.5695	3.0964	11429.09	5098.63	1334.932	1642.723	4117.808	833	11302.5	283.446	0.9476	15672.2	143158.1	11585.91	131572.2	139428.6	3.0157	0	
11.3029	108.1326	85.8811	8.4799	144.8468		6.6984	2.5968	2.8113	11211.33	5048.687	1329.971	2189.562	3408.107	833	11027.1	272.8284	0.8217	118120.7	144020.7	10000	134020.7	140801.7	2.7637	1	
10.8368	123.29	88.0801	9.8137	147.2252		5.6451	2.5495	3.0668	11522.79	5276.892	1352.637	1865.568	3940.672	865.0253	10836.85	283.4043		116127.4	143147.6	11120.25	132027.4	139568	2.9901	0	
11.2195	151.5897	87.1261	9.4948	146.0798		6.8713	2.6684	3.5371	11340.36	5011.211	1326.249	1688.098	4079.806	833	11219.47	284.4102		113393.2	140797.1	11503.88	129293.2	137094	3.4441	0	
12.0724	85.3986	86.342	8.1453	156.6049		5.3081	2.2008	2.3418	12245.98	5349.903	1359.889	2765.241	3473.515	895.4347	9349.653	260.3475	0.7819	120647.1	146547.1	10000	136547.1	143328.1	2.3001	1	
11.7155	85.1189	89.1345	7.8682	143.5187		5.9837	2.3879	2.333	11663.24	5203.523	1345.35	2540.93	3336.969	834.4672	9063.207	936.793	0.7736	120622.5	146522.5	10000	136522.5	143303.5	2.3047	1	
12.0172	96.9309	88.6039	7.6804	145.8617		5.7426	2.3238	2.5875	11803.65	5255.775	1350.54	2437.104	3502.004	856.2304	9524.176	475.8236	0.7925	119356.1	145256.1	10000	135256.1	142037.1	2.537	1	
11.8606	145.3917	86.8306	7.9443	151.31		6.7378	2.7841	3.4129	11936.28	5040.153	1329.124	2019.407	4312.957	833	11860.63	284.0471		113642	141686.6	12144.68	129542	137777.3	3.3187	0	
10.5321	120.3892	86.9083	7.3739	148.3968		5.0129	2.5202	3.0235	11802.65	5413.873	1366.243	1868.607	3829.849	922.078	10532.09	283.3428		116552.5	143267.9	10815.43	132452.5	139786.5	2.95	0	
11.2459	154.0818	86.1209	6.9553	157.3174		4.5069	2.8947	3.576	12454.13	5523.503	1377.131	2094.326	4089.432	967.7391	11245.94	284.4934		113171	140601.4	11530.43	129071	136889.8	3.4816	0	
12.4277	155.5879	87.1917	8.3933	150.6964		6.6187	2.8792	3.5532	11874.64	5065.949	1331.686	1706.48	4535.522	833	12472.69	284.2724		112512.4	141169.4	12756.96	128412.4	137062.9	3.4498	0	
12.7273	133.5497	86.4472	8.5028	145.0197		6.9875	2.6797	3.2587	11303.47	4986.051	1323.75	1884.802	3873.872	833	10562.1	283.8712	0.8299	115286.2	142032.2	10845.97	131186.2	138540.9	3.1786	0	
11.3826	118.4021	87.5038	7.6842	152.1743		5.6212	2.4769	2.9597	11246.49	5282.075	1353.152	2102.954	4139.127	867.1843	11382.6	283.1002		116344.2	143909.9	11665.7	132244.2	140154.7	2.8825	0	
11.7732	135.1167	86.9791	10.1596	132.4334		8.8735	3.1868	3.3053	10175.86	4577.411	1283.163	1837.952	3242.333	833	8788.762	1211.238	0.7465	115396.2	141296.2	10000	131296.2	138077.2	2.637	1	
11.6289	159.2024	87.5856	9.0001	141.5124		7.8301	2.9567	3.6672	11120.82	4803.487	1305.617	1779.681	3997.033	833	10968.76	284.7943	0.9432	128683.9	140017.4	11253.52	128763.9	136394.9	3.5724	0	
12.2099	96.836	88.0821	9.2021	140.1139		5.3496	2.2187	2.5788	11052.17	5340.927	1358.997	1380.912	3677.639	891.696	10021.04	282.8879	0.8207	119243	145446.5	10303.42	135143	142129.8	2.52	0	
11.1933	164.073	86.3309	8.4523	149.8531		6.1748	3.0018	3.7338	11670.19	5162.13	1341.239	1861.547	4070.275	833	11193.26	284.8537		112370	139748.1	11478.11	128270	136053.3	3.635	0	
11.3885	123.1584	86.2018	8.281	139.7915		6.902	2.6577	3.0992	10892.65	5004.564	1325.589	1827.36	3500.14	833	9548.41	451.5904	0.8384	116641	142541	10000	132541	139322	3.0352	1	
11.049	130.3064	86.2803	6.7492	152.9873		5.494	2.6298	3.1853	12167.26	5309.63	1355.889	2033.249	4017.827	876.661	11049.03	283.6446		115363.9	142596.6	11332.67	131263.9	138948.6	3.1038	0	
11.7663	97.4177	87.4122	7.5791	155.8856		5.125	2.1994	2.5505	12444.83	5389.586	1363.83	2198.005	4179.447	911.9625	11485.45	282.1775	0.9761	118444.6	146112.2	11767.63	134344.6	142324.2	2.4844	0	
11.7549	112.8188	86.9011	7.5168	143.2423		5.9931	2.4203	2.8762	11371.2	5201.502	1345.149	1683.311	3905.61	833.6255	10700.02	282.9096	0.9103	117225.8	144108.8	10983.01	133125.8	140573.4	2.8056	0	
11.2729	113.6283	87.5347	9.0699	150.566		5.3998	2.4187	2.874	11814.12	5330.047	1357.917	1737.772	4099.223	887.1647	11272.87	282.9214		116868.7	144324.5	11555.79	132768.7	140604.7	2.7999	0	
12.3944	77.6073	87.1623	10.0173	139.2514		6.437	2.5012	2.163	10739.78	5105.307	1335.959	1827.059	3191.816	833	8617.815	1382.185	0.6953	121443.2	147343.2	10000	137343.2	144124.2	2.1541	1	
10.5314	102.6674	87.6411	7.6629	153.5389		6.218	2.4782	2.7034	10840.16	5152.769	1340.309	1685.982	3426.101	833	9375.943	264.0574		108903	118711.6	144611.6	10000	134611.6	141392.6	2.6553	1
12.4019	130.6161	86.0323	6.9956	158.5141		5.205	2.6651	3.2374	12528.43	5372.26	1362.109	1977.523	4509.793	904.7463	12401.93	283.5907		114223.1	142808.6	12685.52	130123.1	138725.1	3.1448	0	
12.4085	112.6835	87.0436	6.5906	151.7598		5.8944	2.4127	2.8651	12209.53	5222.877	1347.272	2397.441	3997.411	842.5284	10979.2	282.9347	0.9624	117105	144267.1	11262.14	133005	140641.8	2.7931	0	
11.8998	109.3047	86.9761	9.7653	148.1861		5.9564	2.3908	2.8327	11441.57	5209.457	1345.939	2017.744	3629.496	836.9386	9896.979	282.9812	0.8317	117974	144053.9	10179.96	133874	140777	2.7683	0	
12.4141	83.7721	88.2941	6.2384	145.4319		5.1507	2.1543	2.3065	11933.51	5384.009	1363.276	2380.35	3494.231	909.6397	9480.372	516.28016	0.7639	120843.5	146743.5	10000	136743.5	143524.5	2.2641	1	
11.0329	103.8898	87.1513	9.6676	148.571		5.5554	2.3078	2.7103	11251.75	5296.322	1354.567	1783.94	3800.802	873.118	10431.38	282.6446	0.9455	118279.5	144893.5	10714.02	134179.5	141444.7	2.6458	0	
12.6163	120.2441	87.3001	8.5669	142.5697		6.4871	2.531	3.0394	11524.97	5094.468	1334.518	1900.82	3660.161	833	9951.7	283.4475	0.7888	116840.7	142975.8	10235.15	132740.7	139681.1	2.9693	0	
12.5093	178.5038	86.2052	7.6149	156.6364		6.7708	3.1101	3.8936	12301.11	5033.001	1328.413	2164.872	4548.82	833	12509.26	285.0116		110693.5	139389.5	12794.27	126593.5	135271	3.7786	0	
10.6044	122.5102	87.6847	7.3842	143.299		6.436	2.5583	3.0797	11506.99	5105.526	1335.617	1826.825	3644.018	833	9999.915	283.5339	0.943	116595.5	142778.9	10283.45	132495.5	139468.7	3.0083	0	
11.4177	118.6856	86.8355	7.6723	148.2667		6.1158	2.4855	2.9724	11737.26	5174.903	1342.507	1928.732	4056.114	833	11146.57	285.1566	0.9763	116428.5	143758.3	11429.73	132328.5	140079	2.8963	0	
11.0207	180.6911	87.584	9.3956	157.8798		4.3956	3.1733	3.9868	12659.62	5547.627	1379.527	2345.146	4007.529	977.7867	11020.71	283.4466		111141.3	138347.4	11306.15	127041.3	134708	3.8819	0	
12.0598	121.7109	88.2365	5.8625	154.3347		5.0373	2.5031	2.9985	12713.17	5408.587	1365.718	2231.598	4385.392	919.8766	12059.83	283.1075		115703.8	143946.8	12342.94	131603.8	139973.6	2.9157	0	
11.5824	126.0938	86.9149	6.3175	143.7769		6.5597	2.5865	3.1213	11588.04	5074.724	1332.955	2031.359	3910.006	833	10720.7	283.5412	0.9256	115913	142817.2	11004.24	131813	139274.9	3.0439	0	
11.8393	145.4585	88.2996	9.5066	135.1061		7.2493	2.8363	3.4896	10645.41	4864.338	1311.661	1645.834	3588.574	833	9781.893	284.4996	0.8262	114558.4	140524.8	10066.39	130458.4	137284.5	3.4091	0	
11.7807	122.9584	88.5726	8.727	154.3447		6.4125	2.5442	3.059	12323.75	5110.63	1336.124	2669.248	3972.749	833	10892.16	283.3801	0.9246	116133.4	143208.9	11175.54	132033.4	139611.5	2.8621	0	
11.0971	106.1188	87.9558	10.0768	156.2073		5.4238	2.3246	2.7352	12165.26	5322.674	1357.184	2167.613	4031.695	884.0937	11087.04	282.6311	0.9991	117723.8	144993.5	11369.67	133623.8	141333.6	2.6961	0	
10.3524	85.1213	86.6631	7.4206	154.353		4.0968	1.8828	1.8767																	

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	Mandate, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
11.3268	116.7388	87.6046	8.7906	150.6585		5.6257	2.4571	2.9306	11873.99	5281.096	1353.055	1852.234	4118.827	866.7767	11326.78	283.0418	1	116534.1	144043.9	11609.82	132434.4	140306.7	2.8546	0
12.6563	147.0379	87.3569	9.4368	153.5276		6.7254	2.7825	3.4105	11962.88	5042.827	1329.389	1753.39	4602.275	833	12656.26	283.9361	1	113147.4	141987.6	12940.19	129047.4	137822.2	3.3105	0
12.0856	110.3802	87.0646	8.7571	145.8751		6.0051	2.4033	2.8511	11423.12	5198.89	1344.89	1982.926	3661.417	833	9980.166	283.0144	0.8258	117822.4	143985.6	10263.18	137222.4	140681.9	2.7857	0
11.8775	116.9874	87.0093	8.096	154.8935		5.452	2.4485	2.9179	12223.15	5318.723	1356.792	1944.111	4319.079	882.448	11877.47	282.9508	1	116246.9	144307.3	12160.42	132146.9	140392.9	2.8387	0
11.2675	83.0025	87.3759	7.8705	151.1646		5.0673	2.1432	2.2895	12018.39	5402.091	1365.072	2456.604	3475.457	917.171	9483.012	516.9879	0.8416	120933.7	146833.7	10000	136833.7	143614.7	2.2476	1
12.2187	101.3913	86.2845	6.7679	155.6113		5.2565	2.2432	2.6152	12373.68	5361.099	1361.001	1976.601	4372.876	900.0978	12020.25	282.2669	0.9838	117755.8	145958.3	12302.51	133655.8	141998.2	2.5442	0
11.2732	123.9976	86.9405	7.9042	139.8905		6.4706	2.5648	3.0863	11056.43	5098.047	1334.874	1545.794	3842.717	833	10541.16	283.4906	0.9351	116197.8	142923.3	10824.65	132097.6	139437.8	3.014	0
11.2576	141.6664	88.7268	8.2544	143.6557		7.1694	2.771	3.3934	11560.42	4946.422	1319.834	2166.291	3892.673	833	10685.34	284.1596	0.9492	114493.5	141363	10969.49	130393.5	13781.9	3.3087	0
11.8118	130.034	87.2251	6.6236	155.4369		6.0977	2.6109	3.1547	12528.44	5395.499	1364.418	2156.913	4295.183	914.4252	11811.76	283.4822	1	115037.5	143032.7	12095.24	130937.5	139139.2	3.0688	0
10.3518	95.412	86.9008	7.6477	147.9789		5.6506	2.3247	2.5557	11727.78	5275.708	1352.52	2373.671	3459.351	864.5324	9480.229	519.7173	0.9158	119517.3	145417.3	10000	135417.3	142198.3	2.5075	1
11.7628	210.4159	86.7915	7.6384	146.12		6.7946	3.4238	4.3562	11565.85	5027.829	1327.899	1697.739	4277.38	833	11762.8	286.1494	1	108726.5	136675.4	12048.95	124626.5	132796.9	4.2326	0
12.2355	146.5746	88.8522	6.945	151.659		4.5609	2.7879	3.4185	12421.96	5511.809	1375.97	1720.053	4449.255	962.8683	12235.46	284.0095	1	113373.6	141793.1	12519.47	129273.6	137763.1	3.2313	0
12.4768	91.4135	88.3918	5.8132	136.5247		5.1167	2.1471	2.4732	11274.02	5391.387	1364.009	1623.825	3580.081	912.7128	9727.7	282.175	0.7797	119995.1	145904.9	10009.88	135895.1	142682.8	2.4186	0
12.0658	145.1169	87.5564	8.1546	152.7047		6.9536	2.7762	3.4012	11267.19	4993.379	1324.578	2188.631	4384.7	833	12057.83	283.9951	0.9993	113578	141819.8	12341.83	129478	137847	3.3059	0
12.8613	146.3808	85.6193	8.3993	143.3178		8.2048	2.9979	3.504	11061.01	4722.299	1327.553	2333.465	3478.695	833	9419.452	580.5479	0.7324	114465.2	140365.2	10000	130365.2	137146.2	3.4345	1
12.6905	97.098	87.0899	6.9209	144.5554		5.8546	2.3476	2.5907	11588.84	5251.511	1348.13	2263.281	3497.827	846.1422	9481.767	518.2334	0.7472	119331.5	145231.5	10000	135231.5	142012.5	2.5416	1
10.8756	203.9674	86.8091	8.6386	152.2868		6.6672	3.3944	4.3127	11904.34	5055.434	1330.641	2328.487	3954.776	833	10875.64	286.2023	1	109500.9	136571.4	11161.84	125409.5	132978.4	4.1993	0
10.8764	105.1679	86.3275	7.4953	146.8529		5.4692	2.3175	2.7246	11576.73	5314.999	1356.422	1691.537	3930.88	880.8971	10808.53	282.6731	0.9938	117959.6	144950.7	11091.17	133859.6	141380.5	2.6575	0
12.3977	153.757	86.6285	7.1709	146.3227		7.4178	2.8674	3.5257	11626.45	4892.806	1314.489	1754.901	4429.258	833	12174.5	284.2754	0.982	112793.8	141152.5	12458.78	128693.8	137142.1	3.4353	0
11.006	102.4821	87.8227	8.5263	142.4453		6.2812	2.486	2.6995	11295.39	5139.071	1338.948	2155.433	3426.937	833	9355.611	644.3892	0.85	118728.4	144628.4	10000	134628.4	141409.4	2.6522	1
10.4807	90.4013	89.0937	8.985	142.4439		5.6936	2.3299	2.4489	11410.98	5266.384	1351.593	2121.286	3409.072	860.6488	9329.262	670.7385	0.8901	120056.3	145956.3	10000	133956.3	142737.3	2.4086	1
11.3912	116.8827	88.0819	8.3908	151.0281		6.1264	2.4709	2.9508	11205.61	5172.606	1342.279	2362.279	3923.441	833	10767.86	283.1512	0.9453	116786.3	143737.3	11051.02	132686.3	140180	2.8778	0
11.3389	103.8946	86.1498	8.498	153.1143		5.3929	2.2919	2.6869	11889.61	5331.544	1358.065	1820.305	4009.906	887.7879	11245.18	282.5063	0.9917	117877.7	145305.4	11527.69	133777.7	141594.6	2.6182	0
10.7063	141.6464	87.3287	9.0439	144.9787		7.0893	2.7745	3.3985	11349.63	4963.976	1321.557	1997.061	3832.032	833	10533.6	284.1912	0.9839	114563.2	141281	10817.79	130463.2	137798.8	3.3148	0
10.243	150.8401	86.5889	7.3571	147.1165		5.6906	2.881	3.5555	11656.31	5267.305	1351.658	2049.987	3724.709	860.92	10242.95	284.5868	1	113915.7	140343.2	10527.54	129815.7	136954.4	3.4697	0
12.4826	150.9703	85.8866	8.3018	145.6306		6.818	2.8296	3.48	11296.63	5022.77	1327.397	1172.34	4539.122	833	12482.59	284.5111	1	112891.8	141558.5	12766.77	128791.8	137448.9	3.3789	0
10.7511	118.4155	86.829	6.7651	151.9639		5.2321	2.4906	2.98	11266.81	5346.655	1359.566	2255.011	3909.5	894.0817	10751.13	283.2188	1	116642.7	143577.1	11034.35	132542.7	140025.1	2.9062	0
11.5879	125.1005	86.1708	8.4398	137.9579		7.2381	2.746	3.1335	10723.61	4931.746	1318.356	1779.117	3459.388	833	9421.488	578.5182	0.813	1116434	142334	10000	132334	139115	3.0732	1
11.7371	107.3682	86.5363	7.9396	135.8556		7.4693	2.7983	2.925	10677.79	4881.564	1313.381	1977.843	3269.913	833	8869.539	1130.461	0.7557	118139.4	144039.4	10000	134039.4	140820.4	2.7003	1
10.6867	123.9286	86.4503	7.7706	145.4011		5.8284	2.5607	3.0833	11440.11	5237.174	1348.692	1717.7	3886.064	848.4829	10686.68	283.4595	1	116136.2	143006.3	10970.14	132036.2	139475	3.0672	0
11.0518	114.9857	88.4388	9.2621	147.5215		5.9667	2.4454	2.9133	11680.27	5207.219	1345.717	1949.031	3940.293	836.0068	10829.72	283.0595	0.9799	116945.7	143958.5	11112.78	132845.7	140381.3	2.8409	0
11.9016	116.5573	86.9053	8.8388	148.4721		6.0251	2.4656	2.9224	11590.7	5194.558	1344.46	1636.987	4179.692	833	11480.94	283.0058	0.9647	116478.4	144142.3	11763.95	132378.4	140355.5	2.8456	0
10.3074	110.5782	85.9178	6.6313	141.268		5.4206	2.544	2.8605	11200.65	5108.864	1335.948	2700.899	3449.944	833	9455.203	544.7966	0.9173	117891.2	143791.2	10000	133791.2	140572.2	2.8058	1
11.5579	97.7136	87.9825	8.0075	150.1703		5.2744	2.2194	2.5799	12009.87	5357.214	1360.615	2110.262	3881.298	898.4796	10639.38	282.3228	0.9208	118837.1	145658.9	10921.71	134737.1	142143.2	2.5176	0
11.6213	107.1751	86.1219	8.4206	147.628		5.835	2.3617	2.7897	11447.89	5235.749	1348.551	1997.099	3639.614	847.8893	9939.472	282.8781	0.8553	118175.2	144297.6	10222.35	134075.2	141007	2.7261	0
11.143	122.5561	86.1165	8.4876	157.9629		5.4548	2.5337	3.0435	12262.48	5318.124	1356.732	2251.417	4052.012	882.1986	11143.04	283.3155	1	116053.4	143380.7	11426.35	131954.3	139702.5	2.9654	0
11.8031	180.4693	86.9074	8.445	150.8843		7.9122	3.149	3.951	11838.75	4785.68	1303.849	2222.193	4292.027	833	11803.08	285.2458	1	110837.8	138826.1	12088.32	126737.8	134934.9	3.8403	0
11.8001	140.7456	87.8448	6.6771	149.9971		5.9676	2.7335	3.3382	11874.93	5202.689	1345.267	1799.897	4290.955	834.1201	11800.13	283.8988	1	114075.1	142059.1	12084.02	129975.1	138169.3	3.2468	0
12.6992	182.9178	87.0561	7.0336	155.4091		6.6307	3.1469	3.948	12436.21	5063.356	1331.428	2188.531	4617.899	833	12699.22	285.1012	1	110289.1	139173.4	12984.32	126189.1	134993.8	3.8294	0
12.2537	164.7376	85.8482	7.2894	139.2456		8.0589	3.0082	3.7433	10938.97	4753.897	1300.692	1559.281	4090.997	833	11208.1	284.873	0.9147	112310.1	139703.1	11492.97	128210.1	136003.5	3.6442	0
11.4352	122.5058	86.7694	9.6374	153.5969		6.2167	2.5292	3.0368	11847.23	5153.044	1340.336	2001.362	4117.484	833	11320.43	283.2796	0.99	115975.8	143479.5	11603.71	131875.8	139744.3	2.9578	0
10.5658	74.0484	87.6609	7.2151	153.2																				

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
11.9583	152.9894	87.1341	8.6231	146.3147		7.4647	2.8727	3.5435	11487.32	4882.652	1313.48	1817.92	4238.264	833	11466.1	284.3655	0.9739	113088.5	140918.9	11930.47	128988.5	137078.5	3.4469
11.4239	163.3341	87.0546	6.7237	150.9295		5.2707	2.9879	3.7134	12124.3	5358.016	1360.695	1950.652	4154.129	898.8136	11243.86	284.7748	1	112331.7	139940.3	11708.63	128231.7	136171.3	3.6134
11.4443	149.9189	88.127	7.5047	149.8742		5.8505	2.8445	3.5018	12083.19	5232.401	1348.218	2092.519	4161.56	846.4951	11444.29	284.3006	1	113436.9	141065.5	11728.59	129336.9	137290.1	3.4081
11.3364	136.1827	86.5199	5.7752	153.3275		4.4045	2.6923	3.2774	12380.4	5545.694	1379.335	1954.404	4122.342	976.9815	11336.45	283.8145	1	114692.6	142212.9	11620.26	130592.6	138472.3	3.1912
12.8	99.2681	87.5748	8.1007	159.2085		5.212	2.2117	2.5687	12652.95	5370.728	1361.957	2180.764	4433.393	904.1082	12170.52	282.1494	0.9508	117904.2	146256.9	12452.67	133804.2	142248.3	2.4983
11.7736	113.0136	86.3878	8.0787	150.7896		5.8614	2.4078	2.8578	11808.2	5230.032	1347.983	1825.718	4156.962	845.5082	11421	282.8687	0.9701	116858.9	144462.8	11703.87	132758.9	140695.3	2.7832
11.7586	115.1016	87.1555	7.8383	146.3649		6.092	2.449	2.9186	11609.26	5180.073	1343.021	1935.365	3915.799	833	10729.2	283.0829	0.9125	116982.2	143894.5	11012.28	132882.2	140349.6	2.8467
11.1253	127.8315	87.3143	9.4343	152.7877		5.2189	2.5984	3.1389	11899.1	5369.247	1361.81	1816.974	4045.579	903.4915	11125.34	283.5313	1	115560.4	142869.3	11408.87	131460.4	139196.8	3.0582
12.5893	108.4641	86.3481	8.7833	147.8801		5.9975	2.3908	2.8225	11470.29	5200.536	1345.053	2127.95	3561.531	833.2232	9669.254	296.2977	0.7681	118163.7	144029.3	9965.552	134063.7	140821.3	2.7601
11.3259	99.1687	86.5105	6.3849	156.2256		4.5714	2.2264	2.5903	12517.66	5509.52	1375.743	2149.986	4118.501	961.915	11325.88	282.2823	1	118337	145845.2	11608.16	134237	142108.5	2.5239
11.469	87.5073	86.4488	8.2209	154.1176		5.4084	2.2258	2.4066	12056.29	5328.188	1357.732	2859.797	3222.18	886.3901	8744.382	523.5795	0.7624	120788.4	145956.4	9267.962	136688.4	142973	2.3653
11.3645	169.6962	86.7296	6.8881	152.8107		4.7059	3.0547	3.8119	12200.64	5480.389	1372.849	1863.07	4132.552	949.7821	11364.53	285.003	1	11848.9	139398.4	11649.54	127748.9	135648.5	3.7093
12.0458	84.6083	87.5747	8.1544	151.5619		4.9358	2.0962	2.3327	12033.45	5430.585	1367.902	2458.392	3445.53	929.0384	9360.373	368.5482	0.7771	120909.3	146538.2	9728.921	136809.3	143406.5	2.2858
11.1071	124.6086	85.9845	7.673	146.0215		6.35	2.5828	3.1157	11435.16	5124.171	1337.468	2075.031	3663.485	833	10074.01	283.6071	0.9967	116356.9	142614.5	10357.62	132256.9	139280.4	3.0429
11.9709	132.802	89.1156	9.6872	141.4731		6.9603	3.2566	3.2566	11236.98	4991.943	1324.335	1935.94	3749.761	833	10240.38	283.9074	0.8554	115502.6	141926.9	10524.28	131402.6	138539.1	3.1789
11.0437	108.8207	87.3058	7.7581	146.1915		5.704	2.3665	2.7969	11629.19	5264.125	1351.369	1829.346	3922.646	859.7081	10779.73	282.803	0.9761	117594.9	144557.4	11062.53	133494.9	140996.4	2.728
11.2702	104.1105	86.029	6.7611	145.1122		5.6678	2.3205	2.729	11520.74	5271.972	1352.148	1981.255	3632.391	862.9762	9935.481	282.7398	0.8861	118500.4	144618.6	10218.22	134400.4	141329.3	2.6669
10.5393	133.1261	86.705	7.8298	146.3803		6.9908	2.6809	3.2604	11545.78	5028.667	1327.983	2207.886	3746.293	833	10295.24	283.9001	0.9768	115447.4	141926.5	10579.15	131347.4	138521.1	3.1822
10.9558	109.9318	87.7584	8.7694	153.9683		5.6534	2.3782	2.8142	12161.82	5275.098	1352.459	2297.09	3970.846	864.2782	10919.33	282.8267	0.9967	117413.2	144515.3	11202.16	133313.2	140909.4	2.744
9.9937	177.0325	88.2515	9.0767	147.0674		6.7215	3.1662	3.9761	11644.03	5043.668	1329.473	2401.808	3634.082	833	9993.726	285.5819	1	11843.5	138022.8	10279.31	127743.5	134713.9	3.8808
12.4104	145.0299	88.3342	7.6677	147.8774		6.8434	2.7665	3.3869	11928.75	5017.268	1326.851	1836.772	4512.855	833	12410.35	283.9171	1	113428.5	142022.8	12694.27	129328.5	137936.5	3.2895
12.0061	116.6781	86.8833	7.373	147.6872		6.0006	2.4491	2.9187	11742.64	5199.87	1344.987	1715.972	4246.815	833	11668.7	282.9764	0.9719	116376.8	144228.5	11951.68	132276.8	140381.3	2.8409
10.1048	143.577	87.7924	6.6117	152.8616		4.7999	2.807	3.4464	12409.41	5460.03	1370.827	2560.796	3674.455	941.3026	10104.75	284.3572	1	114582.4	140871.5	10389.11	130482.4	137527.2	3.3646
10.8804	141.6064	86.2578	7.674	147.1118		6.6729	2.7656	3.3855	11560.61	5054.209	1330.52	1984.381	3956.5	833	10880.38	284.1159	1	114411.5	141476	11164.49	130311.5	137882.2	3.2994
10.5609	94.3043	87.204	7.2653	153.5669		4.0355	2.1732	2.5112	12275.14	5625.646	1387.277	2009.598	3840.342	1010.282	10560.94	282.1819	1	119249.4	145992.6	10843.12	135149.4	134505.2	2.4517
11.8791	180.0623	87.8598	8.2665	148.888		5.7289	3.1429	3.9418	11850.49	5258.744	1350.835	1661.768	4319.675	857.4667	11879.11	285.2142	1	110837.3	138901.6	12164.32	126737.3	142988.9	3.8309
11.4356	85.5288	87.3362	8.7831	146.6984		5.2274	2.1774	2.3613	11523.61	5367.403	1361.627	2224.01	3265.85	902.7235	8871.423	284.9885	0.7758	120975.9	146236.3	9360.412	136875.9	143223.2	2.3194
10.6401	173.462	88.0262	10.8571	144.7205		7.4027	3.1125	3.8971	11168	4896.072	1314.813	1852.979	3869.141	833	10640.14	285.3032	1	111855.3	138680.7	10925.44	127755.3	135163.8	3.7983
12.3264	139.7693	86.3807	7.8602	157.8749		5.1917	2.7097	3.3031	12396.42	5375.141	1362.396	1868.604	4482.334	905.9464	12326.42	283.7445	1	113924.2	142434.4	12610.17	129824.2	138375.2	3.4209
11.944	155.492	87.4509	6.5588	136.8982		6.9086	2.904	3.5896	11703.99	4851.476	1310.384	1498.351	4178.78	833	11476.62	284.4915	0.9609	112952.7	140613.8	11761.11	128852.7	136827.9	3.2929
10.1062	148.4063	86.6867	6.7249	146.8031		6.361	2.8614	3.5266	11738.63	5121.78	1337.231	2369.637	3674.986	833	10106.22	284.5399	1	114155.8	140446.6	10390.76	130055.8	137101.8	3.4426
10.8409	86.4078	88.0434	8.1705	133.5694		5.8209	2.3347	2.3984	10668.58	5238.797	1348.854	1932.291	2897.479	849.1591	7840.17	746.7212	0.7232	121241	145727.9	9586.891	137141	142963.8	2.367
10.8735	129.2615	87.377	8.6068	139.888		7.0994	2.7176	3.2199	11019	4961.787	1321.34	2092.831	3408.045	833	9907.479	289.0359	0.856	116190	141806.5	9716.515	132090	138678.7	3.1533
9.9657	117.792	86.4761	7.8994	155.1041		4.3675	2.4996	2.9931	12187.57	5553.707	1380.131	2247.517	3623.895	980.3189	9965.714	283.3401	1	117077.4	143226.5	10249.05	132977.4	139927.3	2.9242
11.7407	152.4788	88.8861	9.3364	150.4917		6.4066	2.8494	3.5093	11971.58	5111.91	1336.251	1800.879	4487.541	833	12340.74	284.1945	1	118227.7	141352.7	12624.94	128727.7	137288.7	3.4083
12.3447	154.8728	87.8704	8.1996	149.0254		6.1229	2.8904	3.5696	11872.97	5173.376	1342.356	1851.423	4070.816	833	11744.75	284.4098	1	112887.9	140817.1	12029.16	128787.9	136944.9	3.4714
11.0418	147.5667	87.4413	10.4328	142.7783		7.2569	2.8315	3.4826	10995.15	4927.673	1317.952	1539.61	3974.915	833	10928.38	284.3279	0.9897	113866.6	140979.3	11212.71	129766.6	137369.9	3.3934
11.8052	115.7525	85.4864	7.3032	146		6.1141	2.456	2.9288	11414.75	5175.27	1342.544	1722.537	3939.396	833	10794.99	283.0984	0.9144	116888.8	143866.3	11078.09	132785.8	140297.8	2.8562
11.9967	155.4467	86.7981	9.0394	149.6799		6.1882	2.89	3.5691	11638.92	5159.215	1340.949	1541.328	4362.43	833	11996.69	284.3735	1	112730.8	140911.9	12281.07	128630.8	136958.6	3.4689
12.733	132.3054	86.5628	9.0817	146.9178		6.8229	2.6481	3.2122	11383.36	5021.694	1327.29	1674.527	4124.864	833	11285.58	283.6754	0.8863	115070	142539.2	11669.25	130970	138815.1	3.1283
11.0493	133.3312	87.1861	8.2682	148.5141		6.5736	2.6658	3.2383	11720.42	5075.724	1332.657	2061.104	4015.934	833	11043.76	283.7643	0.9995	115006.3	142313.8	11327.52	130986.3	138667.5	3.1553
10.2935	124.4551	87.3197	8.2773	146.346		5.7687	2.576	3.1057	11567.55	5250.108	1349.977	1968.489	3743.102	853.87	10293.53	283.5578	1	116269.2	142746.3	10577.09	132169.2	139341.6	3.0317
12.1749	134.2981	87.02																					

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
11.9816	90.1382	88.1987	8.2399	139.0685		5.4679	2.2399	2.4601	11119.76	5315.284	1356.45	1869.711	3295.295	881.0157	8931.617	480.4573	0.7454	120416.9	145729	9412.075	136316.9	142699.3	2.4155
11.3318	150.5606	87.4925	7.4931	148.4865		6.5896	2.8543	2.5611	11878.82	5072.257	1332.312	2118.589	4120.666	833	11331.83	284.3484	1	113431.6	140947.8	11616.18	129331.6	137208.5	3.4231
12.0268	114.3755	86.83	7.5139	144.6929		6.1565	2.4507	2.9209	11476.48	5166.093	1341.632	1993.985	3739.769	833	10208.88	283.1475	0.8488	117304.4	143696.4	10492.03	133204.4	140319.1	2.8523
11.9731	118.1493	87.8161	8.0792	152.828		6.0844	2.4696	2.9491	12186.02	5181.717	1343.184	2214.036	4212.084	833	11507.75	283.0549	0.9664	116279.5	144033.3	11853.8	132179.5	140217.5	2.8709
10.9321	110.0465	87.9316	9.2023	153.7706		5.6234	2.3797	2.8164	12106.26	5281.6	1353.105	2231.261	3971.309	866.9863	10920.95	282.8313	0.999	117400.7	144504.5	11203.79	133300.7	140898	2.7461
11.5695	91.8763	87.462	7.7021	148.4997		5.2874	2.1998	2.489	11844.32	5354.406	1360.336	2380.178	3450.095	897.3101	9395.579	364.1883	0.8121	120058.1	145717.8	9759.768	135958.1	142576.2	2.4381
10.7416	118.1953	87.1054	6.4937	155.832		4.3009	2.4881	2.9762	12525.6	5568.139	1381.565	2281.547	3906.024	986.33	10741.57	283.2113	1	116669	143593.8	11024.78	132569	140044.9	2.9026
10.882	149.853	87.1906	9.2539	145.3436		6.711	2.8579	3.5212	11327.59	5045.95	1329.699	1759.843	3957.1	833	10882.03	284.4219	1	113689.5	140756	11166.45	129589.5	137161.5	3.4317
12.4393	125.9952	88.2067	7.4742	142.4299		6.4921	2.5674	3.0936	11498.72	5093.382	1334.41	1635.271	4200.654	833	11517.8	283.3815	0.9259	115551.1	143252.2	11801.18	131451.1	139453.4	3.0111
10.4292	116.4322	87.8941	10.5202	140.5909		6.8146	2.6347	2.993	10878.06	5023.506	1327.47	2063.557	3228.527	833	8811.56	546.8628	0.8448	117602.2	142860.2	9357.919	133502.2	139847.8	2.9388
11.3933	162.7228	86.6594	8.542	150.5787		2.9824	3.7052	1.1762.81	5424.457	1367.294	1499.553	4143.024	926.4864	11393.32	284.761	1	112394.1	139972.2	11678.08	128294.1	136213	3.6057	
11.7718	125.0085	86.9932	6.1261	142.5541		6.8346	2.6318	3.139	11527.93	5019.171	1327.04	2456.686	3490.037	833	9501.145	348.4345	0.8071	116546	142295.5	9849.579	132446	139125	3.0714
11.8615	121.4295	87.4704	9.1433	152.3173		6.4571	2.5391	3.0514	11930.58	5100.969	1335.164	2503.972	3755.473	833	10262.1	283.438	0.8652	116577.9	143023.5	10545.54	132477.9	139628.9	2.9789
11.9915	101.8192	86.3179	6.5872	158.1996		5.3454	2.2573	2.6358	12613.37	5341.836	1359.088	2398.802	4219.569	892.0748	11591.42	282.3566	0.9666	117924	145697.7	11873.78	133824	141875.6	2.5667
11.6593	105.6823	87.648	7.7307	138.1598		5.7626	2.3412	2.7594	11041.36	5251.442	1350.109	1534.395	3648.99	854.4257	9964.687	282.8062	0.8547	118319.7	144467.2	10247.49	134219.7	141168.6	2.6964
11.8301	160.9208	87.2729	8.2844	148.0593		7.0334	2.9521	3.8605	11694.99	4976.104	1322.762	1859.25	4301.87	833	11830.15	284.5999	1	112353.6	140368.4	12114.74	128253.6	136468.6	3.5588
11.6039	124.2022	88.3414	9.8485	145.7926		6.4833	2.5637	3.0876	11443.68	5095.285	1339.599	1873.426	3905.373	833	11076.37	283.4669	0.9226	116100.7	142990.5	10989.84	132000.7	139452.9	3.0112
11.5947	174.6319	88.29	8.658	148.9677		5.7572	3.0978	3.8754	11862.58	5292.032	1354.141	1726.821	4216.258	871.3314	11594.71	285.11	1	11368.1	139147.9	11879.82	127268.1	135323.8	3.7689
11.6927	147.0392	86.3737	9.7006	146.865		2.9286	2.8171	3.4614	11397.45	4918.64	1317.055	1823.281	4103.479	833	11271.27	284.2339	0.964	113760.7	141216.2	11555.51	129660.7	137496.5	3.3702
11.6634	121.1026	87.5927	7.1721	147.0057		5.8639	2.5043	3.0002	11822.28	5229.479	1347.928	1756.368	4241.229	845.2778	11663.38	283.1578	1	115949.2	143795.7	11946.54	131849.2	139950.2	2.92
12.4464	155.3477	86.9304	7.1422	137.7433		7.6044	2.8943	3.5754	10990.3	4852.373	1310.473	1297.41	4295.044	833	11788.77	284.4165	0.9472	112829.3	140802.5	12073.18	128729.3	136916.1	3.4767
11.6438	138.7649	87.4177	9.3447	155.2553		4.6593	2.7147	3.3105	12121.25	5490.487	1373.852	1666.866	4234.057	953.9877	11643.66	283.8487	1	114321.4	142148.9	11927.51	130221.4	138309.4	3.221
10.6236	119.3461	86.3556	7.9576	149.8035		6.2356	2.5129	3.0128	11744.29	5148.951	1339.93	2284.343	3736.062	833	10262.95	283.3501	0.966	116782.3	143228.6	10546.3	132682.3	139833.7	2.9413
11.3716	183.5952	88.5674	10.1209	155.0799		5.3892	2.1914	4.0134	12165.47	5322.344	1358.442	2049.742	4135.118	888.1214	11371.58	285.4515	1	110779.8	138336.8	11657.03	126679.8	134584.4	3.9046
11.3678	154.3794	87.6199	6.7339	155.129		5.3151	2.8944	3.5761	12547.75	5348.406	1359.74	2409.064	4133.729	894.8109	11367.76	284.4767	1	113093	140645.2	11652.23	128993	136894.4	3.4807
10.4644	96.1184	87.5851	6.8274	155.1956		4.5864	2.2004	2.5519	12533.24	5506.276	1375.42	2483.747	3805.233	960.5639	10464.39	282.2823	1	119098.8	145745.5	10746.67	134998.8	142286.1	2.4913
11.4245	138.0901	85.9638	8.595	140.4433		7.2434	2.7562	3.3672	10865.93	4930.6	1318.242	1829.54	3552.552	833	9697.818	289.889	0.8489	115257.1	141144.8	9987.707	131157.1	137928.9	3.2907
11.4449	83.0991	86.9952	8.9887	145.8508		5.5271	2.2505	2.3217	11377.31	5302.451	1355.176	2461.401	2980.615	875.6709	8052.868	683.9434	0.7036	121562.6	146199.4	8736.812	137462.6	143387.1	2.2893
11.9303	93.1233	86.7532	9.2162	151.181		5.4013	2.2269	2.5165	11722.12	5329.709	1357.883	2310.981	3434.526	887.0239	9333.966	380.7062	0.7824	119938.1	145552.8	9714.702	135838.1	142425.6	2.4658
11.9051	77.8798	87.2212	8.9866	157.3325		4.0928	1.9129	2.128	12308.85	5613.235	1386.044	1608.341	4294.16	11005.116	11311.806	281.2106	0.9917	120473.3	148461.2	12087.82	136373.3	144570.1	2.0722
10.4863	102.1424	87.8768	9.5716	145.638		5.5632	2.3024	2.6962	11404.21	5294.643	1354.4	1947.104	3533.646	872.4189	9687.916	290.6138	0.9239	118827.7	144706.2	9978.53	134727.7	141494.1	2.6367
11.9219	106.9806	86.5398	7.8499	159.6824		4.8469	2.3193	2.7274	12565.4	5494.845	1369.815	2071.445	4335.237	937.0606	11921.91	282.5248	1	117225.9	145330.4	12204.43	133125.9	141401.8	2.6536
11.8378	137.3014	87.7599	7.5386	156.7828		4.7541	2.6933	3.2789	12577.32	5469.954	1371.813	2083.47	4304.647	945.4357	11337.78	283.7537	1	114364.4	142385.9	12121.53	130264.4	138484	3.189
10.8985	82.915	87.9279	9.4036	152.6842		4.8096	2.0734	2.2957	11989.42	5457.911	1370.617	2399.552	3418.916	940.4201	9337.637	272.883	0.8568	121117.3	146278.8	9710.516	137017.3	143602	2.2499
12.6333	159.3074	87.4629	6.5899	149.5003		5.6952	2.9141	3.6046	12090.54	5266.044	1351.56	1616.485	4593.941	860.5071	12633.34	284.3624	1	112139.3	140957	12917.7	128039.3	136798.8	3.4982
10.0529	130.1511	87.8016	6.7197	140.3492		5.5037	2.6509	3.2162	11337.68	5307.542	1355.681	1739.071	3655.59	877.7912	10052.88	283.8399	1	115837.1	142073.9	10336.72	131737.1	138746.5	3.1409
11.1681	180.64	87.5742	8.7298	148.6027		5.962	3.1687	3.9799	11716.49	5208.23	1345.817	1862.904	4061.109	836.4276	11168.05	285.4083	1	111084.9	138438.4	11453.46	126984.9	134751.5	3.8739
10.5519	104.8458	86.3339	8.413	144.2275		5.8429	2.3739	2.7548	11526.79	5234.04	1348.381	2238.846	3456.344	847.1777	9462.157	352.7316	0.8967	118610.5	144325.3	9814.889	134510.5	141165.9	2.6969
12.1032	114.7681	86.6591	6.9303	157.4571		4.7074	2.4158	2.8697	12554.02	5480.07	1372.817	1948.312	4401.17	949.6491	12103.22	282.8188	1	116356.6	144642.7	12386.04	132256.6	140655.6	2.7905
11.1873	145.534	87.2086	9.2298	157.1231		4.8481	2.8024	3.4397	12252.26	5528.45	1377.623	1906.272	4068.114	969.7995	11187.32	284.1968	1	113928.7	141300.2	11471.52	129828.7	137607.5	3.3498
11.777	104.8637	87.3906	9.1854	153.7078		6.0971	2.4202	2.7608	12600.235	5178.971	1342.911	1473.086	3372.378	833	9162.239	435.2092	0.778	118703.9	144201.3	9597.448	134603.9	141111.9	2.7068
11.1347	144.1856	87.1426	8.2835	144.4763		6.0735	2.7886	3.4194	11393.27	5184.069	1343.418	1581.787	4048.996	833	11134.74	284.1582	1	114070	141388.9	11418.9	129970	137173.2	3.3305
10.8131	119.511																						

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	
11.6343	90.4226	87.2677	7.7602	158.6643		4.9779	2.1245	2.44	12615	5421.456	1366.996	2771.872	3727.44	925.2362	10192.15	282.0547	0.876	119870	146244.2	10474.2	135770	142872.5	2.3837	
10.7477	168.5108	86.6556	8.0567	146.3281		5.7223	3.0594	3.8188	11501.24	5260.168	1350.976	1721.762	3908.27	858.0601	10747.74	285.1103	1	112201.8	139134.7	11032.85	128101.8	135583.2	3.7213	
11.0264	121.2128	86.6914	6.6038	147.5101		5.3875	2.5197	3.0228	1813.74	5332.714	1358.182	1822.983	4009.588	888.2753	11026.37	283.2829	1	116239.1	143448.7	11309.65	132139.1	139808.1	2.946	
11.2843	176.3616	87.6508	9.1411	147.5998		5.7349	3.1235	3.9133	11588.01	5257.441	1350.705	1617.58	3610.365	856.9241	11284.26	285.2416	1	111363.5	138833	11569.5	127263.5	135108.8	3.8084	
12.2108	101.7231	86.7903	9.6164	147.5533		6.1844	2.4348	2.7047	11387.25	5160.038	1341.031	2407.152	3244.029	833	8774.783	537.679	0.7186	119168.6	144381	9312.462	135068.6	141383.4	2.657	
11.3099	117.2597	86.9026	8.2589	157.3415		5.1696	2.4641	2.9408	12073.92	5379.919	1362.87	2208.502	4112.695	907.9363	11309.91	283.0665	1	116490.8	143983.8	11592.98	132390.8	140252	2.8646	
12.8761	100.5863	86.9322	5.2771	146.9973		5.4918	2.2593	2.6387	12303.08	5310.119	1355.937	2159.748	3896.411	878.8645	10620	282.463	0.8248	118537.4	145339.8	10902.46	134437.4	141830.3	2.575	
11.7119	101.2689	87.6887	7.7385	152.7771		4.269	2.2475	2.6215	12214.07	5575.04	1382.25	1606.71	4258.87	989.2041	11711.89	282.3124	1	117922	145816.2	11994.21	133822	141955.3	2.5521	
11.231	165.1776	87.2348	9.2489	143.994		6.7577	3.0122	3.6491	11229.51	5035.827	1328.694	1545.976	4084.012	833	11231.04	284.8826	1	112264.9	139680.9	11515.92	128164.9	135973.9	3.6496	
11.7586	84.3019	85.746	6.2075	159.1632		4.406	2.0097	2.2708	12659.6	5545.372	1379.303	2099.499	4256.58	976.8475	11704.57	281.5355	0.9954	119783.9	147670	11986.11	135683.9	143811.7	2.2114	
11.121	184.975	86.4991	6.0097	149.6921		5.7359	3.2118	4.0435	12048.63	5257.215	1350.683	2137.91	4043.994	856.8302	11120.99	285.558	1	110778.6	138085.1	11406.54	126678.6	134413.4	3.936	
11.2957	122.4276	87.7888	7.0462	154.9662		3.786	2.5897	3.1261	12512.37	5679.69	1392.644	1897.715	4107.53	1032.791	11295.72	283.4818	1	115519.4	142998.6	11579.21	131419.4	139271.2	3.0446	
12.1795	116.186	87.5457	6.9431	157.1553		5.6498	2.432	2.8936	12627.13	5275.867	1352.535	2343.233	4428.901	864.5984	12179.48	282.8629	1	116180.9	144543.3	12462.34	132080.9	140531.7	2.8133	
10.3953	121.4083	87.8331	8.0214	155.0915		3.7601	2.5359	3.0467	12378.12	5685.318	1393.203	2082.572	3780.997	1035.135	10395.27	283.4115	1	116517.3	143096	10678.68	132417.3	139658.5	2.9735	
10.28	110.3833	89.2951	6.5152	141.5627		6.4031	2.5259	2.8733	1178.55	5112.656	1336.325	2751.59	3282.98	833	8975.253	492.7005	0.8731	118177.9	143545.9	9467.954	134077.9	140498.2	2.8194	
10.7088	141.2561	89.0702	9.9183	144.7866		6.1536	2.7658	3.3857	11460.14	5166.727	1341.956	1822.619	3894.094	833	10708.76	284.139	1	114519.6	141412.5	10992.9	130419.6	137873.9	3.301	
11.4719	99.8539	86.9225	9.132	140.8677		5.8528	2.3551	2.6601	10958.17	5231.883	1348.167	1775.493	3354.35	846.2794	9124.447	441.0703	0.7954	119259.2	144724.7	9565.517	135159.2	141645.5	2.6089	
12.0553	120.9676	87.0598	7.5877	150.0351		6.2444	2.5071	3.0043	11923.6	5147.057	1339.742	2028.857	4174.945	833	11460.97	283.1905	0.9507	116057.8	143701.9	11744.16	131957.8	139921.5	2.9252	
11.0493	72.4201	87.3703	9.6139	153.9198		4.7283	2.0352	2.0734	11968.25	5475.529	1372.366	2077.527	3066.568	947.7577	833	1161.104	591.7509	0.7526	122790.4	147508.2	8907.855	138690.4	144730.8	2.0428
11.089	125.8654	87.8168	7.9306	148.6369		5.6116	2.5754	3.105	11874.04	5284.158	1353.359	1934.122	4032.349	868.0516	11088.96	283.4598	1	115763.2	143035.6	11372.42	131663.2	139374.8	3.0256	
12.0257	102.9579	87.1929	6.951	158.9222		4.4602	2.2641	2.6459	12725.74	5533.633	1378.138	2067.013	4372.999	971.9583	10225.75	282.3342	1	117589.6	145797.7	12308.08	133489.6	141835.7	2.574	
11.9823	163.0728	86.2341	5.7338	133.6327		8.2399	3.028	3.7723	10156.94	4714.691	1296.798	1668.063	3602.386	833	9814.924	285.1427	0.8191	113037	139037.1	10100.07	128937	135785.9	3.6841	
10.5061	126.8399	86.7314	8.2938	152.8555		3.8083	2.6004	3.1418	11989.62	5674.858	1392.164	1669.413	3820.404	1030.778	10506.13	283.6137	1	115941.6	142631.4	10789.74	131841.6	139158.1	3.0653	
11.1391	115.0163	85.2128	7.9415	152.0606		5.4625	2.4393	2.9042	11749.94	5316.45	1356.566	1742.836	4050.584	881.5012	11139.12	283.0042	1	116794.4	144116.5	11422.12	132694.4	140439.8	2.8301	
10.558	122.8802	88.0708	8.2965	150.3818		5.6624	2.5506	3.0684	11996.6	5273.151	1352.266	2266.444	3839.267	863.4675	10557.99	283.4413	1	116297.7	143039.1	10841.43	132197.7	139549.3	2.9935	
11.5414	138.9707	87.0291	5.8804	155.4877		5.9802	2.7195	3.5176	12617.63	5204.28	1345.425	2634.257	4196.881	834.7826	11541.43	283.8776	1	114349.2	142074.5	11825.3	130249.2	138267.9	3.2287	
11.3782	107.7218	89.012	7.2263	148.5491		5.8697	2.3723	2.8053	12149.18	5228.229	1347.804	2747.816	3578.577	844.7574	9775.098	282.9318	0.8591	118198.2	144156.2	10058.03	134098.2	140918.5	2.7423	
12.3424	127.8933	86.7395	7.394	142.6263		6.5972	2.5944	3.1331	11269.15	5070.598	1332.147	1496.567	4134.84	833	11332.81	283.4929	0.9182	114548.4	142974.7	11616.3	131358.4	139235.4	3.0511	
11.0961	134.7108	86.8239	8.0947	153.4775		5.5004	2.6808	3.2604	12083.16	5308.256	1355.752	2104.13	4034.93	878.0888	11096.06	283.8072	1	114935.9	142215.8	11379.86	130835.9	138552.6	3.1764	
12.182	120.4638	87.8293	7.8311	140.4970		6.9866	2.6808	3.0656	11238.98	4986.23	1323.768	2378.797	3315.185	833	8979.938	501.4976	0.7371	117144.6	142526	9481.436	133044.6	139473.9	3.0074	
11.6939	148.6599	88.2899	7.9523	151.6104		4.6545	2.8244	3.4722	12180.01	5491.529	1373.956	1705.789	4252.31	954.4217	11693.86	284.2009	1	114346.6	141312.7	11978.06	129334.6	137457	3.3775	
12.1273	117.4151	87.2683	7.6894	158.3553		5.2169	2.4485	2.9179	12601.72	5369.664	1361.852	2154.621	4049.923	903.665	12127.29	282.9224	1	116086	144396.2	12410.22	131986	140401.4	2.8372	
10.6703	121.7786	86.8107	7.7519	156.082		5.0116	2.5345	3.0446	12339.65	5414.161	1366.271	2354.903	3880.117	922.1978	10670.32	283.3742	1	116351.8	143205.5	10953.7	132251.8	139675.5	2.9696	
10.7018	119.3274	87.8143	7.992	150.5701		4.4767	2.5032	2.9984	12018.86	5530.05	1377.782	1846.995	3981.566	970.4657	10701.81	283.2662	1	116576.4	143461.5	10985.08	132476.4	139925.4	2.9245	
12.0883	97.2715	88.0103	8.9722	146.8038		5.698	2.3063	2.6055	11603.1	5265.426	1351.498	2332.56	3391.362	860.2499	9202.745	417.9719	0.7613	119518.2	145038.9	9620.717	135418.2	141942	2.5545	
12.162	126.3227	87.6364	7.855	151.145		6.4849	2.5724	3.1006	12058.56	5094.943	1334.565	2214.057	4179.991	833	11470.83	283.4037	0.9432	115542	143196.3	11754.23	131442	139412.6	3.0186	
11.4161	141.107	88.7266	7.9629	152.853		5.5764	2.7469	3.3579	12344.97	5291.77	1354.115	2274.539	4151.324	871.2223	11416.14	283.9838	1	114215.6	141815.8	11700.13	130115.6	138049.5	3.2687	
10.4633	117.0887	86.8553	8.4481	152.6603		5.0404	2.48	2.9643	11969.67	5402.924	1365.652	2069.675	3804.818	919.6002	10463.25	283.2167	1	116910.9	143557.4	10746.47	132810.9	140098.1	2.8928	
12.461	175.6057	86.2783	7.4684	149.2084		7.0983	3.0832	3.8541	11759.09	4962.028	1321.364	1709.428	4531.274	833	12461.01	284.9323	1	110934.1	139580.1	12745.94	126834.1	135477.1	3.7408	
12.079	77.3466	86.5845	7.4671	149.4097		5.1718	2.1481	2.1911	11792.41	5379.451	1362.824	2735.985	3004.41	907.7413	8095.455	656.4819	0.6702	122254.4	146903.3	8751.937	138154.4	144089.1	2.1605	
12.9435	125.3299	86.7485	8.0892	145.6567		6.5181	2.5602	3.0826	11457.26	5089.119	1333.987	1604.745	4194.409	833	11476.11	283.3632	0.8866	115633.4	143292.9	11759.47	131533.4	139507.5	3.0012	
12.4803	142.3104	88.6243	12.9124	151.5033		7.236	2.7671	3.3876	11470.62	4932.194	1318.401	1911.793	4073.228	833	11148.8	284.0853	0.8933	114228.9	141561.8	11434.89	130128.9	137881.6	3.2996	
10.8404	129.754																							

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
11.2933	113.2022	86.4696	7.5349	153.1592		5.6806	2.4129	2.8653	12089.58	5269.201	1351.873	2098.228	4106.455	861.8223	11292.75	282.8998	1	116901.8	144377.5	11575.65	132801.8	140651.3	2.7913
11.4382	106.458	88.5781	8.6812	151.0606		4.4	2.3221	2.7315	12069.28	5546.673	1379.433	1604.435	4159.349	977.3895	11438.21	282.5854	1	117516.6	145137.4	11720.8	133416.6	141364.5	2.6605
12.2126	166.8987	86.2078	7.4756	150.0856		5.4679	3.0033	3.7362	11816.58	5315.278	1356.45	1420.908	4440.929	881.0134	12212.56	284.7107	1	111712.4	140109.6	12497.27	127612.4	136086.8	3.6289
11.1933	85.8385	86.6543	8.4438	154.0326		4.8574	2.0865	2.3561	12046.97	5447.554	1369.588	2388.286	3503.433	936.1061	9567.248	318.7372	0.8547	120691.7	146477.7	9885.98	136591.7	143295.4	2.3062
12.6804	118.5853	87.2582	9.0685	154.9708		6.2793	2.4887	2.9771	12117.12	5139.493	1338.99	2400.16	4003.471	833	10939.02	283.1906	0.864	116536.9	143659.1	11222.21	132436.9	140046.6	2.9023
10.7943	155.2739	87.7426	9.2717	144.1206		6.7494	2.9192	3.612	11309.28	5037.633	1328.873	1782.568	3925.203	833	10794.31	284.6376	1	113266.7	140245.7	11078.95	129166.7	136679.4	3.5202
11.9293	123.8115	87.7352	8.85	144.1906		6.6283	2.5779	3.1086	11374.47	5063.871	1331.479	2131.72	3612.403	833	9846.308	283.6185	0.8254	116540.5	142570.5	10129.93	132440.5	139309.7	3.0375
10.7454	138.9347	86.8034	7.9245	159.4719		4.1552	2.7382	3.3451	12578.97	5599.705	1384.7	2285.657	3907.426	999.4772	10745.43	284.0426	1	114711.4	141640.9	11029.47	130611.4	138095.3	3.2612
10.8798	140.2426	86.1006	9.3902	136.5639		7.7049	2.8832	3.4161	10475.88	4830.608	1308.311	1757.305	3344.654	833	9124.373	472.9437	0.8387	115211.4	140708.7	9597.317	131111.4	137619.3	3.3477
12.3091	139.058	86.409	9.1468	147.1017		6.9674	2.7157	3.312	11365.4	4990.406	1324.182	1539.603	4276.206	833	11740.59	283.8395	0.9538	114251.5	142176	12024.43	130151.5	138305.3	3.2218
11.3298	100.9082	86.3552	6.958	157.5416		5.4351	2.2663	2.6491	12508.36	5322.392	1357.156	2720.209	3822.631	883.9761	10480.84	282.5009	0.9251	118572.1	145235.4	10763.34	134472.1	141770.7	2.5859
12.3089	192.0063	87.3831	8.2226	143.6587		6.9116	3.2432	4.0899	11372.1	5002.479	1325.382	1333.261	4475.976	833	12308.94	285.4725	1	109787.6	138282	12594.41	125687.6	134227.9	3.97
10.8043	116.195	86.8072	9.0045	139.5798		6.6112	2.5778	2.982	10859.69	5067.57	1331.847	1876.187	3349.083	833	9140.755	450.4733	0.846	117527.7	143018.9	9591.228	133427.7	139931.5	2.9234
10.156	117.3207	86.8349	9.0108	156.6034		5.9324	2.4896	2.9783	12187.52	5214.637	1346.454	2692.352	3692.98	839.0963	10155.7	283.2842	1	117034.2	143373.1	10438.98	132934.2	140012.8	2.9085
11.0742	99.1813	85.4027	7.4883	136.1248		6.5157	2.5261	2.6686	10606.07	5008.733	1333.903	2019.244	2929.654	833	7922.461	763.4511	0.7154	119731.2	144317.1	10685.912	135631.2	141521.1	2.6317
11.297	145.0772	88.6503	6.1767	142.7664		5.5876	2.7946	3.4282	11774.46	5289.36	1353.876	1750.99	4108.016	870.2183	11297.05	284.1564	1	113919.8	141401	11581.2	129819.8	137673	3.3378
12.2343	100.9024	87.2922	7.0701	155.146		5.3253	2.2441	2.6165	12446.14	5346.175	1359.519	2207.332	4237.23	893.8821	11631.99	282.3094	0.9508	118000.3	145814.6	11914.3	133900.3	141979.4	2.5476
12.2034	156.9471	86.8355	5.536	154.9608		6.3077	2.9006	3.5846	12598.23	5133.337	1338.379	2453.903	4437.617	833	12203.45	284.3789	1	112517.4	140905.2	12487.83	128417.4	136885.4	3.4824
12.0967	91.873	87.4758	7.7847	137.774		6.1831	2.4242	2.5168	10979.35	5160.332	1341.06	2329.394	2913.564	833	7836.135	765.0044	0.6478	120596.8	145098	8601.139	136496.8	142329.3	2.4834
11.7437	121.4131	86.8254	9.2906	133.9397		7.2613	2.736	3.0908	10384.99	4926.727	1317.858	1728.573	3176.829	833	8602.142	615.2508	0.7325	117160.2	142277.5	9217.393	133060.2	139310.5	3.0374
11.7756	104.4066	88.3906	7.5374	155.8466		5.1833	2.2883	2.6816	12670.7	5376.958	1362.576	2270.444	4282.022	906.7029	11175.56	282.439	1	117562.8	145520.8	12058	133462.8	141639.3	2.61
11.4109	105.4254	87.1832	7.9187	156.143		4.2937	2.309	2.7121	12300.7	5569.703	1381.72	1886.765	4149.429	986.9811	11410.93	282.5452	1	117636.7	145230.2	11693.48	133536.7	141466.1	2.6418
10.8814	100.4172	88.7359	7.5543	156.2438		4.9278	2.2519	2.6279	12684.13	5432.314	1368.074	2595.124	3956.856	929.7589	10881.36	282.4118	1	118425.4	1454889	11163.77	134325.4	141895.6	2.563
8.9937	73.9551	87.7913	7.7603	154.5576		3.7943	1.8824	2.0829	12369.39	5067.899	1392.466	2267.288	3597.692	1032.045	9893.654	281.2661	1	121963.5	148038.5	10174.92	137863.5	144763.1	2.0368
11.8654	96.6756	86.7751	10.7239	136.4308		6.6306	2.5456	2.6238	10375.72	5063.362	1331.429	1942.171	2803.763	833	7532.597	860.5911	0.6348	120146.5	144439.6	8393.188	136046.5	141737.9	2.5919
9.8378	111.8328	88.5572	9.3856	150.7135		4.5754	2.4253	2.8836	11932.23	5508.671	1375.658	2106.95	3577.387	961.5614	9837.815	283.1042	1	117741.7	143762.6	10120.92	133641.7	140504.7	2.8182
11.8763	82.4792	86.7619	8.3486	145.2447		5.3753	2.2078	2.3038	11389.13	5335.346	1358.443	2333.608	3070.357	889.3717	8291.773	624.2064	0.6982	121550.3	146366.3	8915.979	137450.3	143496.2	2.2693
11.8356	96.1248	86.9251	8.784	150.5295		5.2273	2.1986	2.5493	11762.54	5367.417	1361.628	1868.66	3860.11	902.7293	10565.08	282.2664	0.8926	119047.5	145794.8	10847.35	134947.5	142303	2.4882
10.4918	132.8939	86.8566	10.2745	143.7307		6.8431	2.6834	3.2642	11007.19	5017.331	1326.857	1762.169	3665.833	833	10067.29	283.9466	0.9595	115573.2	141824.4	10351.23	131473.2	138492.3	2.7785
10.3462	110.6701	87.3567	7.0753	150.3018		5.4803	2.3996	2.8457	12066.45	5312.596	1356.183	2353.514	3762.256	879.896	10346.21	282.9611	1	117615.4	144144.6	10629.17	133515.4	140723	3.1872
11.3295	82.4492	87.2375	7.9233	150.9879		4.5648	2.01	2.2711	11975.48	5510.953	1375.885	2053.317	3670.819	962.5119	10043.45	281.6833	0.8865	120864.8	147089.9	10325.14	136764.8	139766.2	2.2198
12.6134	127.7899	87.9744	7.6689	154.8363		5.166	2.5641	3.0884	12434.2	5380.692	1362.947	1793.595	4586.707	908.2582	10213.45	283.239	1	114873.5	143670.2	12896.68	130773.5	139518.7	2.9992
10.3982	80.3561	86.2546	8.618	152.3171		5.1089	2.1501	2.2533	11811.4	5393.075	1364.177	2632.002	3106.731	913.4156	8461.44	578.3417	0.8137	121745.9	146685.7	9039.782	137645.9	143775.8	2.218
12.8694	31.1894	87.8378	7.7504	140.2396		6.8752	2.6485	3.2127	11231.44	5100.383	1326.167	1736.694	3923.192	833	10697.52	283.7502	0.8312	115443.3	142324.6	10981.27	131343.3	138789.7	3.1329
11.7944	141.4983	87.6655	7.6139	155.9792		5.694	2.7421	3.3509	12486.38	5266.311	1351.586	2016.999	4288.865	860.8184	11794.38	283.9188	1	114011.3	141989.6	12078.3	129911.3	138101.6	3.2592
12.4358	120.114	86.4583	7.4232	152.6798		6.1733	2.488	2.9761	12067.06	5162.46	1341.271	2139.95	3147.575	833	11853.85	283.0821	0.9532	115954.4	143991.4	12136.93	131854.4	140084.5	2.8953
12.3696	95.1357	87.3116	6.9353	146.7169		5.2128	2.1857	2.5302	11792.57	5370.556	1361.94	1901.413	3852.622	904.0364	10517.91	282.2278	0.8503	119179.7	145879.8	10800.14	135079.7	142403.2	2.4699
12.1689	161.9444	87.4142	8.2511	153.1299		6.4132	2.9537	3.663	12122.24	5110.477	1336.108	2015.585	4425.069	833	12168.94	284.5561	1	112125.8	140479.3	12453.5	128025.8	136470.5	3.5585
11.7415	121.0995	86.6123	8.0841	151.0281		6.0793	2.5034	2.9989	11859.96	5182.816	1343.293	1842.881	4255.97	833	11703.26	283.1501	0.9967	115930.7	143817.1	11986.41	131830.7	139958.7	2.9184
11.3756	125.3012	88.2761	7.1894	150.741		5.2856	2.5621	3.0855	12223.1	5354.79	1360.374	2071.888	4136.582	897.4699	11375.61	283.3815	1	115683.1	143242	11658.99	131583.1	139489	3.0046
10.8228	152.2432	86.6184	6.7838	148.6174		5.414	2.8856	3.5625	11864.8	5326.974	1357.611	1956.785	3935.546	885.8847	10822.75	284.522	1	113511	140518.2	11107.28	129411	136942.8	3.4718
10.919	139.8796	87.6922	6.9305	155.4708		5.255	2.7449	3.355	12556.09	5361.416	1361.032	2560.852	3970.559	900.2297	10919.04	284.0422	1	114548.4	141651.4	11203.08	130448.4	138045.2	2.7895
11.8474	107.790																						

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
11.9293	107.2105	88.1177	9.709	152.6702		5.6335	2.3334	2.7481	11970.68	5279.401	1352.886	1928.585	4141.733	866.0705	11371.08	282.6296	0.9532	117472	145025.7	11653.71	133372	141274.4	2.677
10.6706	136.6218	88.0743	9.6398	145.3568		5.3975	2.7132	3.3081	11400.98	5330.531	1357.965	1542.899	3880.217	887.3663	10670.6	283.969	1	114954.9	141809.5	10954.57	130854.9	138283.2	3.2259
10.8119	126.5006	87.3691	7.3254	133.1864		7.1611	2.7297	3.1756	10660.74	4948.439	1320.014	1845.487	3311.796	833	9032.874	491.0669	0.8355	116533.6	141957.6	9523.941	132433.6	138891.8	3.1142
12.7254	106.5231	87.9544	8.3163	158.9824		5.403	2.2987	2.6971	12661.07	5329.354	1357.848	2084.535	4600.455	886.8759	12649.73	282.3814	0.9941	116915.6	145747.7	12932.11	132815.6	141584.9	2.62
13.1825	84.3063	88.1761	10.0858	149.818		4.9923	2.1025	2.3274	11699.32	5418.332	1366.685	2153.425	3434.946	923.9352	9280.641	387.6792	0.704	120973.4	146541.7	9668.32	136873.4	143429.5	2.2815
9.7532	100.2648	86.6478	8.1179	159.315		3.751	2.2714	2.6566	12510.99	5687.278	1393.398	2445.743	3546.617	1035.951	9753.199	282.5932	1	119003	144938.8	10035.79	134903	141708.3	2.5974
11.5961	134.0923	87.304	8.9315	153.4481		5.9855	2.6618	3.2324	10226.13	5203.136	1345.311	2024.602	4216.771	834.3059	11596.12	283.6815	1	114764.2	142544	11879.8	130664.2	138719.9	3.1457
12.5367	126.065	87.1769	6.5173	155.4775		5.8562	2.5452	3.0606	10240.27	5231.167	1348.096	2154.221	4558.809	845.9809	12536.73	283.1876	1	115069.2	143789.2	12819.91	130969.2	139662.4	2.9728
12.0324	109.9784	85.9206	7.2136	150.3333		5.8326	2.3766	2.8119	11832.29	5236.262	1348.602	1973.687	4023.637	848.103	11027.01	282.8096	0.9164	117356.2	144566	11309.81	133256.2	140925.3	2.741
11.546	148.259	86.4361	7.2693	154.7239		5.3701	2.8237	3.4712	12248.99	5336.477	1358.555	2063.561	4198.5	889.8425	11546.02	284.2186	1	113534.2	141264.4	11830.24	129434.2	137456.3	3.3776
10.9051	137.9287	87.8007	8.6531	154.2855		5.8107	2.7228	3.3223	12211.33	5241.019	1349.074	2403.649	3965.5	850.0843	10945.13	283.9706	1	114730.2	141819.3	11189.1	130630.2	138217.5	3.2379
11.1768	73.8993	86.7781	7.937	148.9836		4.4383	1.9624	2.0955	11746.02	5538.372	1378.608	2113.96	3339.151	973.9318	9094.423	420.6366	0.8137	122303	147718.1	9515.06	138203	144655.2	2.0566
11.6096	148.5027	87.4712	9.0072	148.5277		6.3849	2.8248	3.4728	11653.76	5116.595	1336.716	1743.774	4221.674	833	11609.61	284.2136	1	113485.3	141279.1	11893.82	129385.3	137450.5	3.3787
11.0892	109.9091	87.9201	8.7783	152.3031		5.8044	2.3842	2.823	12053.55	5242.369	1349.208	2344.16	3865.161	850.6468	10613.58	282.88	0.9571	117563.9	144360.3	10896.46	133643.9	140852.8	2.7544
11.2078	167.7948	87.1983	9.5088	151.0956		5.9431	3.0396	3.7896	11738.55	5212.335	1346.225	1864.307	4075.546	838.1377	11207.76	284.9766	1	112065.4	139458.2	11492.74	127965.4	135758.6	3.6891
11.4307	88.4344	87.0871	9.584	138.1077		5.8909	2.3503	2.4405	10703.77	5223.636	1347.348	1938.377	2949.569	842.8443	9764.962	721.672	0.6968	120955.4	145541.8	8686.364	136855.4	142745.6	2.407
11.8705	103.5468	86.8525	7.1889	148.2055		5.5549	2.2959	2.6928	11810.72	5296.441	1354.579	1941.621	3942.914	873.1674	10802.07	282.566	0.91	118132.9	145117.5	11084.64	134032.9	141549.3	2.6265
9.6717	96.3035	87.0408	10.7492	144.6437		6.2071	2.4615	2.6063	11035.1	5155.121	1340.543	2349.794	2954.647	833	8057.527	719.5227	0.8331	120011	144688	8777.05	135911	141862.7	2.5691
12.3259	166.464	85.9436	7.9985	140.3026		6.2789	3.0467	3.8	10935.9	4706.238	1295.958	1874.173	3824.531	833	10438.99	285.1137	0.8469	112496.1	139120.2	10724.11	128396.1	135668.1	3.7057
10.5652	113.376	87.3975	8.9005	150.8739		5.1292	2.4303	2.8909	11843.15	5388.678	1363.74	1935.265	3841.881	911.5842	10565.18	283.0391	1	117234.4	143982.6	10848.21	133134.4	140490.5	2.8208
11.184	155.0503	87.5286	8.1857	151.3599		5.5631	2.8852	3.5619	12009.34	5294.662	1354.402	2018.939	4066.906	872.4268	11184	284.4705	1	113284.9	140653.4	11468.47	129184.9	136961.7	3.4684
11.3627	92.8293	87.4688	8.7709	157.7496		4.7384	2.1378	2.4597	12214.56	5473.356	1372.151	2088.308	4131.893	946.8527	11362.71	281.9872	1	119005.2	146549.9	11644.69	134905.2	142801.5	2.3968
11.3953	142.3288	88.1848	5.8577	153.3106		4.1886	2.7613	3.3791	12621.61	5592.465	1383.981	2102.963	4143.745	996.415	11395.3	284.0337	1	114117	141696.3	11679.34	130017	137936.8	3.2894
11.6602	96.4088	88.4676	7.3007	156.4004		4.9494	2.1824	2.5254	12684.54	5427.636	1367.811	2332.734	4234.748	927.8102	11650.94	282.1055	0.9992	118469.9	146302.9	11933.05	134369.9	142461.7	2.4591
10.5946	175.1464	86.2135	7.8885	147.4421		6.0094	3.1307	3.9238	11548.4	5197.974	1344.799	1918.056	3862.574	833	10594.58	285.3705	1	111742.6	138522.5	10879.95	127642.6	135020.3	3.8246
11.2084	106.5905	88.0565	8.2823	153.4307		5.0443	2.3285	2.7408	12239.82	5407.07	1365.567	2070.169	4075.767	919.2445	11208.36	282.6308	1	117615.6	145006.5	11490.99	133515.6	141307.6	2.6709
10.9759	150.098	87.9581	8.4148	141.0246		7.0539	2.8583	3.5221	11217.57	4971.646	1322.319	1697.353	3991.249	833	10975.94	284.4101	1	113627.3	140787.6	11260.35	129527.3	137169.9	3.4314
12.5729	97.7513	88.7743	8.1791	153.8369		5.2951	2.2135	2.5712	12398.51	5352.725	1360.169	2370.594	4016.415	896.6099	10980.55	282.2743	0.8734	118662	145824.8	11262.83	134562	142199.2	2.5073
12.4412	120.4094	87.3539	10.3617	146.5694		6.8793	2.6072	3.0582	11284.71	5029.292	1328.045	2262.998	3430.077	833	9298.266	407.0698	0.7474	117057	142662.3	9705.335	132957	139538.2	2.9956
12.6527	136.8581	88.118	8.9371	153.1943		5.813	2.6688	3.2428	12310.05	5223.544	1347.339	1713.384	4060.981	842.8061	12652.7	283.5709	1	114034	142870.2	12936.27	129934	138706.1	3.1483
10.5696	127.2055	86.5545	8.1967	143.1663		6.5461	2.6092	3.1548	11218.19	5081.686	1333.249	1815.502	3752.757	833	10312.7	283.6669	0.9757	115996.5	142492.9	10596.37	131896.5	139081.9	3.0793
12.4241	81.9873	85.9593	7.0289	157.803		4.731	2.0375	2.2724	12455.44	5474.949	1327.309	2758.647	3500.022	947.5162	9499.91	283.5854	0.7646	121168.4	146901.9	9833.496	137068.4	143736.5	2.2252
11.3901	85.1416	88.0171	10.1206	136.0012		5.8513	2.3362	2.3734	10594.01	5323.213	1348.2	1916.469	2848.716	846.4169	7678.383	782.742	0.6741	121451.7	145811.9	8461.126	137351.7	143089.2	2.344
11.1147	79.5967	85.9921	9.0901	149.88		5.2852	2.1867	2.2424	11526.07	5354.877	1360.383	2521.959	2989.341	897.5062	8091.716	664.1665	0.728	121976.6	146632.5	8755.882	137876.6	143813.9	2.211
12.3309	93.7471	88.2878	8.8087	149.0276		5.2168	2.1781	2.5189	11841.6	5369.692	1361.854	2180.42	3623.959	903.6767	9860.713	282.2669	0.7997	119665.6	145708.6	10142.98	135565.6	142443.5	2.4625
11.0836	139.3126	87.6603	8.6161	152.8804		5.5299	2.7344	3.3395	12084.32	5301.86	1355.117	2119.518	4030.399	875.4247	11083.6	283.9861	1	114525.1	141792.7	11367.59	130425.1	138133.4	3.2533
11.5935	102.3488	85.8163	7.6824	147.8148		5.7234	2.3242	2.7027	11549.34	5259.925	1350.952	2170.118	3508.391	857.9588	9562.436	324.5669	0.8248	118845.8	144632.9	9887.003	134745.8	141450.2	2.6447
11.1734	104.7388	87.3185	9.3993	157.4696		4.7302	2.3046	2.7056	12269.9	5475.121	1372.326	2009.817	4063.405	947.588	11173.38	282.5557	1	117824.9	145180.9	11455.93	133724.9	141493.2	2.6368
11.8956	177.2561	86.7962	8.452	146.1143		7.9476	3.1152	3.9011	11447.21	4778.01	1303.087	1805.429	4325.68	833	11895.62	285.1213	1	111042.6	139123.4	12180.74	126942.6	135202.4	3.7912
10.7442	134.5859	87.7408	7.9695	147.5584		5.4552	2.6876	3.2704	11770.92	5318.031	1366.723	1905.04	3906.968	862.1601	10744.16	283.8745	1	115107.7	142035.7	11028.04	131007.7	138485.8	3.1887
11.4883	135.6498	87.7361	8.4954	156.4279		5.6892	2.6825	3.2603	12395.45	5267.335	1351.688	2335.834	4177.553	861.0015	11488.27	283.763	1	114671.9	142343.9	11772.03	130571.9	138554.5	3.1761
10.5622	140.8605	87.5899	6.3057	143.4926		7.1262	2.7723	3.3953	11663.67	4955.992	1320.764	2440.522	3730.994	833	10250.87	284.2214	0.9705	114760.3	141195.4	10535.09	130660.3	137804.2	3.3138</

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
11.9268	149.3846	88.1226	7.2636	153.246		6.0598	2.8264	3.4753	12391.31	5187.041	1343.713	2288.538	4337.021	833	11926.81	284.1761	1	114370.2	141381.2	12210.99	129170.2	137450.5	3.3787
11.5321	142.5909	85.7661	7.3654	153.0351		5.7264	2.7609	3.3786	11998.06	5259.291	1350.889	1935.084	4193.107	857.6946	11531.04	284.0147	1	114032.2	141748.3	11815.06	129933.2	137945	3.2879
12.3112	137.371	87.633	8.5283	158.2823		6.1053	2.6828	3.2634	12520.87	5177.183	1342.734	2289.16	4476.795	833	12311.19	283.6593	1	114143.4	142638.3	12594.85	130043.4	138584	3.1707
11.6409	132.0571	86.6346	7.4645	150.9479		6.1072	2.6369	3.1957	11950.55	5176.766	1342.692	1963.024	4233.068	833	11640.94	283.5943	1	114929.7	142754.3	11924.53	130829.7	138915.8	3.1098
9.6375	177.7478	87.565	8.8145	157.2419		3.2267	3.1962	3.9998	12382.88	5800.886	1404.682	2187.501	3504.547	1083.269	9637.507	312.8751	1	111919.4	137769.8	9950.382	127819.4	134566.7	3.9078
11.2365	137.8322	85.9071	8.9544	138.01		7.307	2.7749	3.3653	10620.24	4916.817	1316.873	1645.003	3305.548	833	9574.157	328.929	0.8521	115313.5	141116.6	9903.086	131213.5	139228.8	3.2909
10.1025	96.9657	85.8931	7.522	143.6801		5.7798	2.3512	2.6053	11620.37	5247.706	1349.738	2165.047	3243.007	852.8696	8868.485	505.9414	0.8779	119663.6	144938	9374.426	135563.6	141920.4	2.5585
12.0459	88.6727	85.6006	7.2317	148.8516		4.8681	2.0933	2.3939	11665.34	5445.24	1369.358	1660.614	3852.987	935.1426	10534.49	281.9178	0.8745	119892.4	146608.8	10816.41	135792.4	143127	2.337
11.0543	155.4331	88.1007	8.7108	148.7758		5.3268	2.9143	3.6047	11811.29	5345.867	1359.488	1790.918	4019.268	893.7536	11052.99	284.5848	1	113141.3	140378.9	11337.57	129041.3	136729.3	3.511
11.4023	105.2548	88.7571	8.9438	138.8575		6.169	2.4431	2.7707	11082.67	5163.381	1341.363	2015.756	3327.175	833	9049.394	466.6913	0.7936	118697.9	144114	9516.085	134597.9	141050.8	2.718
11.0723	85.5107	87.2475	7.7514	142.5768		5.6274	2.2823	2.374	11334.3	5280.736	1353.019	2436.78	2995.135	866.6267	8110.143	676.8115	0.7325	121251.3	145938.3	8786.954	137151.3	143109.7	2.3402
11.3513	80.995	85.7065	9.0902	145.5742		5.5025	2.2422	2.278	11153.35	5307.801	1355.707	2300.065	2909.874	877.8991	7854.484	725.3139	0.6919	121892.7	146372.5	8579.798	137792.7	143610.6	2.2483
11.4008	125.5466	86.5433	8.2516	140.0509		6.7133	2.6074	3.1452	11277.99	5045.447	1329.649	2119.774	3548.116	833	9686.163	292.7841	0.8496	116441.4	142320.3	9978.947	132341.4	139108.1	3.0745
11.7426	157.5996	87.2278	8.7185	139.3434		7.7368	2.9344	3.6345	10939.75	4823.7	1307.625	1505.265	4068.163	833	11168.02	284.6353	0.9511	112910.9	140263.5	11452.65	128810.9	136576.9	3.539
10.0114	90.541	86.6914	7.397	155.6799		4.1049	2.1295	2.4472	12344.55	5610.616	1385.784	2301.602	3640.526	1004.021	10011.45	282.0884	1	119948.9	146142.5	10293.53	135848.9	142829	2.3917
11.5764	170.3689	86.8501	8.5895	141.6649		6.5554	3.0557	3.8134	11468.4	5079.654	1333.047	1611.108	4209.589	833	11576.37	284.9749	1	111707.2	139468.5	11861.35	127607.2	135650.4	3.709
11.8158	107.7552	86.9807	8.5295	144.279		5.8862	2.3714	2.804	11318.85	5224.65	1347.448	1893.012	3608.478	843.2665	9840.389	282.9217	0.8328	118162.9	144186.2	10123.31	134062.9	140927.5	2.7406
9.5248	131.9593	88.2604	7.7205	154.1338		4.2185	2.7133	3.2636	12413.93	5585.988	1383.338	2585.278	3463.558	993.764	9524.787	343.0968	1	115873.6	141641.5	9867.884	131773.6	138465	3.1825
10.4439	112.899	86.0588	9.1381	157.83		5.1709	2.4267	2.8856	1240.39	5379.639	1362.842	2290.302	3797.789	907.819	10443.93	283.0406	1	117341	143967.9	10726.97	133241	140514.9	2.9164
10.8627	104.8566	86.4106	10.0349	146.0789		6.2041	2.4581	2.7653	11156.87	5155.785	1340.609	2153.458	3272.023	833	8915.813	503.145	0.8208	118783.2	144102.2	9418.958	134683.2	141070.2	2.7145
11.7192	122.4673	88.6617	10.3668	153.5752		5.0031	2.5199	3.0232	12024.15	5415.991	1366.453	1655.208	4261.539	922.9603	11719.23	283.2021	1	115791.9	143694.4	12002.44	131691.9	139630.8	2.9419
12.3997	131.2704	86.8439	10.0671	156.7704		6.8442	2.6484	3.2127	12026.33	5017.088	1326.833	2527.023	3930.386	833	10740.75	283.7447	0.8662	115415.9	142340.4	11024.49	131315.9	138791.6	3.1326
10.7427	159.4367	85.7705	6.5898	158.0754		4.7432	2.9651	3.6796	12516.52	5472.316	1372.047	2417.294	3906.448	946.4197	10742.74	284.7973	1	112941.5	139869.1	11027.53	128841.5	136319.3	3.5862
11.1783	108.6958	86.9439	9.1606	145.4362		5.8873	2.3831	2.8213	11312.51	5242.427	1347.426	1883.301	3612.178	843.1737	9881.588	282.9567	0.884	118044.7	144109.3	10164.55	133944.7	140837.3	2.7572
12.3785	147.5701	87.5839	9.2109	142.2198		7.5799	2.8468	3.5051	11146.19	4857.684	1311	1959.094	3783.408	833	10317.91	284.4618	0.8335	114135.6	140638	10602.37	130035.6	137225.1	3.42
11.858	97.4624	86.4293	7.4792	151.9288		5.3359	2.2231	2.5854	11994.8	5343.894	1359.292	2244.612	3752.073	892.9317	10252.46	282.3795	0.8646	119058.4	145493.3	10534.84	134958.4	142102.1	2.5251
12.7799	87.4526	87.2565	9.7145	151.406		5.1623	2.1522	2.3964	11740.32	5381.5	1363.027	2261.124	3424.079	908.5947	9266.403	393.6802	0.7251	120610.5	146170.6	9660.083	136510.5	143061	2.4394
11.0279	94.7106	87.2533	6.9776	150.1807		5.0845	2.1786	2.5198	12055.86	5398.352	1364.701	2124.028	3851.164	915.6137	10576.02	282.1986	0.959	119197.1	145955.3	10858.22	135097.1	142460	2.3492
11.7702	152.468	87.5649	7.8654	146.8329		7.605	2.8853	3.562	11702.5	4852.255	1310.461	2318.487	3986.294	833	10391.59	284.5059	0.9287	113444.3	140560.4	11216.09	129344.3	136950	3.4705
12.0207	103.611	87.8313	8.4679	141.2753		5.7406	2.3253	2.7622	11212.08	5256.213	1350.583	1794.362	3552.514	856.4126	9669.443	295.7544	0.8044	118676.3	144541.5	9965.197	134576.3	141333.7	2.6661
11.2148	104.5438	86.4932	10.0305	136.3312		4.6767	2.322	2.7674	10424.25	5096.725	1334.742	1634.001	3123.784	833	8473.072	625.0569	0.7555	118958.9	143957	9098.129	134858.9	141028.3	2.7222
11.3339	196.2634	87.1332	8.2566	151.9639		5.7654	3.511	4.1899	11986.4	5250.836	1350.049	2007.936	4121.404	854.1732	11333.86	285.8512	1	109871.7	137391.5	11619.72	125771.7	133651.1	4.0758
11.5209	95.7322	88.1542	8.8996	143.1038		5.4379	2.2438	2.5686	11341.64	5321.794	1357.097	1899.201	3477.82	883.7274	9477.768	344.8552	0.8227	119597.4	145320	9822.623	135497.4	142158.1	2.5148
12.1391	96.1319	87.8673	7.9784	150.6496		5.2491	2.1993	2.5503	12035.23	5362.694	1361.159	2154.321	3854.294	900.7622	10533.79	282.2718	0.8678	119062.4	145778.5	10816.06	134962.4	142298.6	2.4894
11.7209	91.2915	86.5495	7.7814	148.0103		5.3991	2.226	2.4809	11658.49	5330.194	1357.931	2313.437	3367.7	887.2256	9151.343	425.9691	0.7808	120208.5	145685.8	9577.312	136108.5	142602.9	2.4332
11.435	104.1497	87.1491	7.4393	150.7138		5.5459	2.3043	2.7051	12013.37	5298.384	1354.772	2153.009	3931.23	873.9771	110788.31	282.5952	0.9434	118076.2	145047.1	11070.91	133976.2	141483.4	2.6386
10.2522	144.1772	87.4321	8.1693	138.4832		7.4322	2.8405	3.4725	10976.58	4889.695	1314.18	2031.419	3506.283	833	9619.794	315.3398	0.9383	114726.5	140561.6	9935.134	130626.5	137363.5	3.3946
11.7188	150.6967	87.5336	8.8985	147.279		6.3251	2.846	3.5041	11581.31	5129.568	1338.005	1617.34	4261.934	833	11718.84	284.2682	1	113250.2	141153.3	12003.1	129150.2	137289.5	3.4082
12.8169	95.8298	87.4775	7.8863	153.5008		5.3322	2.2064	2.5607	12217.31	5344.683	1359.37	2564.267	3653.731	893.2605	9924.02	282.3561	0.7743	119402.5	145508.9	10206.38	135302.5	142223.5	2.5028
10.9127	115.6966	86.6363	8.8623	152.4799		5.9384	2.4542	2.9263	11858.98	5213.343	1346.325	2115.408	3943.345	838.5575	10842.76	283.0873	0.9936	116868.5	143894.3	11125.85	132768.5	140312.9	2.8534
10.5974	85.1643	86.6357	9.5464	149.2674		4.8666	2.0959	2.3438	11506.91	5445.578	1369.392	1910.502	3444.158	935.2834	9424.856	353.1965	0.8894	120821	146499.1	9778.052	136721	143351.5	2.9650
11.3958	151.4299	87.701	8.0738	151.4001		5.7798	2.8622	3.528	12055.57	5247.702	1349.738	2059.343	4143.916	852.868	11395.77	284.3655	1	113329.6	140909.8	11680.14	129229.6	13714	

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
10.9669	117.8668	87.7702	7.3469	145.6358		5.9681	2.479	2.9628	11712.51	5206.901	1345.686	1928.624	3993.428	835.8744	10981.72	283.1535	0.9986	116585.3	143750.2	11264.87	132485.3	140124	2.8881
11.7072	70.1408	87.0771	7.7951	147.4272		4.657	2.0093	2.0215	11688.33	5490.979	1373.901	2429.786	3037.467	954.1926	8204.663	609.7495	0.7008	123126.5	147840.9	8814.413	139026.5	145003.5	1.9927
10.9271	125.5096	88.7215	8.0769	155.4156		5.8423	2.5747	3.104	12533.44	5234.172	1348.394	2728.131	3973.506	847.2328	10927.14	283.4771	1	115872.5	142983.1	11210.62	131772.5	139374.4	3.0256
12.0269	124.7537	89.0735	6.7241	146.8239		6.2021	2.5416	3.0553	12090.86	5156.216	1340.651	1997.016	4361.982	833	11994.93	283.2404	0.9973	115445.4	143623.6	12278.17	131345.4	139671.2	2.9712
11.2447	107.0823	87.0443	7.3495	147.7855		5.7033	2.3478	2.7693	11777.75	5264.285	1351.385	2048.211	3852.093	859.7745	10569.28	282.7635	0.9397	117877.3	144629.3	10852.04	133777.3	141136	2.7024
11.2716	117.2204	87.0817	8.9172	150.5231		6.2113	2.4844	2.9707	11630.09	5154.226	1340.454	2128.707	3771.701	833	10336.91	283.2459	0.9171	116958	143478.1	10620.15	132858	140059.5	2.8999
11.8943	89.6787	87.1655	8.5834	154.9778		4.9398	2.1119	2.4213	12178.48	5429.716	1367.816	2279.907	3770.362	928.6766	10303.47	282.0016	0.8663	119897.1	146382.5	10585.47	135797.1	142975.1	2.3649
11.6078	177.6966	86.0717	8.4227	148.1199		7.334	3.1276	3.9194	11501.37	4910.975	1316.293	1818.092	4221.009	833	11607.78	285.2056	1	111127.8	138920.8	11892.99	127027.8	135092.5	3.8113
12.5415	79.8205	87.1562	8.3369	152.489		4.5456	1.9864	2.2217	12019.09	5515.111	1376.298	2212.086	3549.348	964.2439	9636.394	300.7404	0.7684	121376.7	147213.8	9937.134	137276.7	144015.1	2.1741
12.4501	121.1209	88.1744	8.2235	152.4271		6.0362	2.4884	2.9768	12186.69	5192.158	1344.221	1905.897	4509.416	833	12399.98	283.0203	0.996	115599.6	144182.6	12683	131499.6	140099.9	2.8925
11.5797	106.7751	87.3616	9.2128	154.5451		5.7877	2.3526	2.7764	12077.51	5245.998	1349.569	2524.827	3702.96	852.1583	11024.16	282.8277	0.8743	118126.9	144433.9	10406.99	134026.9	141083.9	2.712
11.1314	114.1247	86.5453	8.3918	151.4775		6.0024	2.439	2.9038	11838.5	5199.471	1344.947	2194.6	3864.48	833	10609.85	283.0631	0.9531	117137.4	143930.3	10892.92	130307.4	140423.9	2.8331
9.8669	139.4809	87.2375	8.7243	153.7046		4.4808	2.7656	3.3854	12067.84	5529.163	1377.694	2200.925	3587.96	970.0964	9866.893	284.2496	1	115057.4	141108.5	10151.14	130957.4	137840.9	3.307
11.7033	136.7052	88.0086	7.8579	145.3433		6.5221	2.6896	3.2753	11649.37	5086.883	1333.765	1737.98	4255.739	833	11703.28	283.7589	1	114478.9	142365.9	11987.04	130378.9	138507.3	3.1847
10.7402	98.5518	86.598	5.7718	143.0636		5.7026	2.3248	2.632	11563.3	5264.429	1351.399	2316.195	3369.444	859.8345	9022.544	419.08	0.8568	119376.7	144898.3	9621.624	135276.7	141801.1	2.5804
12.1522	142.389	86.7799	8.1104	146.1967		7.1421	2.7602	3.3776	11501.22	4952.553	1320.423	1815.507	4177.734	833	11464.77	284.0212	0.9434	114080.6	141729.4	11748.79	129980.6	137945.5	2.8715
11.3653	102.115	88.0724	7.2578	141.7068		5.5054	2.2839	2.675	11451.98	5307.174	1355.645	1706.213	3803.315	877.6379	10423.59	282.5655	0.9171	118471.6	145077.8	10706.15	134371.6	141631.5	2.2675
11.6919	159.7542	87.4901	8.1693	150.9715		5.3881	2.9435	3.6479	11975.19	5332.585	1358.169	1742.614	4251.599	888.215	11691.9	284.5907	1	112508	140384.4	11976.49	128408	136529.2	3.5477
11.3269	137.8332	88.5929	7.9875	144.1546		6.8771	2.7154	3.3115	11619.64	5009.956	1326.124	1986.461	4062.099	833	11166.75	283.9125	0.9859	114620.5	141971.1	11450.66	130520.5	138285.2	3.2255
11.8745	109.6822	86.9775	8.6782	141.6696		5.921	2.3881	2.8287	11092.64	5217.109	1346.699	1526.43	3760.272	840.126	10275.31	282.9303	0.8653	117751.3	144209.6	10558.25	133651.3	140810.9	2.7621
11.9294	136.1388	85.7184	7.8904	154.8031		6.2486	2.6777	3.2559	12048.03	5146.129	1339.649	1989.298	4337.954	833	11929.37	283.6913	1	114422.7	142540.2	12213.07	130327.1	138608.8	3.1661
10.9547	139.8092	87.3589	9.3068	147.9982		6.7438	2.7433	3.3525	11504.75	5038.833	1328.992	1918.413	3983.516	833	10954.67	284.032	1	114538.6	141677.3	11238.7	130438.6	138059.6	3.2669
12.2605	90.9965	88.0778	8.9303	152.7669		5.1609	2.1597	2.4669	11953.63	5381.8	1363.057	2370.314	3527.74	908.7196	9587.031	315.216	0.7819	120092.2	145894.4	9902.247	135992.2	142706.9	2.4141
13.0548	71.6607	87.5782	8.4433	153.6783		4.1816	1.8801	2.0375	12007.64	5593.982	1384.132	2133.219	3497.214	997.0937	9464.244	336.7622	0.725	122439.5	148140.5	9801.006	138339.5	144986.6	1.996
10.1168	112.347	87.3587	7.6209	150.3862		4.9661	2.4263	2.885	11991.47	5324.002	1367.249	2193.609	3678.849	828.297	10116.84	283.076	1	117554.6	143854.5	10399.91	133454.6	140506.8	2.8178
11.992	117.8244	87.0993	6.5333	157.3421		5.3888	2.4565	2.9297	12676.43	5332.425	1358.153	2334.955	4360.742	968.1548	11992.04	282.9638	1	116110.6	144285.6	12275.01	132010.6	140334.3	2.8495
12.0828	114.7855	86.3851	9.4655	142.474		6.4684	2.5232	2.9508	10959.05	5098.505	1334.919	1843.574	3447.047	833	9363.054	385.1424	0.7749	117604.6	143252.8	9748.196	133504.6	140114.9	2.8898
12.5449	144.0353	86.9635	9.1344	137.5001		7.665	2.8537	3.4718	110701.51	4839.239	1309.168	1083.082	3515.023	833	9537.601	341.8433	0.7603	114760.3	140539.7	9879.445	130660.3	137359.5	3.3953
10.632	118.1084	87.2985	8.594	153.4929		5.3653	2.4893	2.978	12080.59	5337.518	1358.659	2225.948	3866.193	890.2761	10432.04	283.2282	1	116729.5	143544.9	10915.26	132629.6	140031.2	2.9051
11.3085	110.8909	87.5899	10.0594	150.0227		6.1683	2.4518	2.8734	11631.19	5163.545	1341.379	2413.823	3477.443	833	9686.782	348.1269	0.8389	117967.5	143702.4	9834.909	133867.5	140536.6	2.8124
12.6093	132.6877	86.8736	8.1378	135.5218		7.5101	2.8024	3.2859	10670.43	4872.81	1312.503	1900.052	3350.06	833	9061.612	487.2783	0.7186	115931.7	141380.6	9548.89	131831.7	138306.6	3.2215
12.0727	115.8667	87.588	7.5025	153.0441		5.3338	2.4303	2.8919	12256.62	5344.334	1359.336	1867.767	4390.067	893.1152	12072.69	282.8693	1	116263.3	144518.9	12355.55	132163.3	140541.6	2.8615
11.3506	140.532	87.1899	7.5551	153.2364		4.3927	2.7419	3.3506	12202.95	5547.379	1379.503	1768.907	4127.476	977.6833	11350.56	283.9761	1	114296.1	141830.7	11634.54	130196.1	138085.5	3.2621
11.8516	79.5273	86.1199	6.7512	152.3428		4.5268	1.9854	2.2156	12091.24	5520.274	1376.811	2296.779	3528.986	966.3942	9609.597	306.9327	0.8108	121421.7	147238.2	9916.53	137321.7	144046.1	2.1684
11.9417	91.1661	86.7512	8.5755	156.6682		5.1972	2.1722	2.4717	12247.65	5373.943	1362.277	2705.7	3498.279	905.4474	9516.949	330.0125	0.7969	120097	145847	9849.962	135997	142676.3	2.4198
11.2027	100.2151	87.2005	6.8502	140.1486		6.4049	2.4983	2.6845	10868.56	5112.261	1336.286	2192.95	3032.024	833	8210.289	888.1295	0.7329	119520.1	144318.5	8898.418	135420.1	141454.1	2.644
10.9988	87.5606	87.6334	8.9805	149.3288		4.8183	2.0865	2.3839	11745.13	5456.033	1370.43	1929.9	3647.133	939.6379	9990.862	281.9458	0.9084	120298.8	146471.6	10272.81	136198.8	143164.8	2.3301
10.3435	120.8063	85.8618	9.0302	155.9115		5.0788	2.5295	3.0372	11978.93	5399.586	1364.824	2135.117	3761.274	916.1275	10343.5	283.3962	1	116600.6	143127.5	10626.9	132500.6	139706.7	2.9647
11.4499	93.8785	88.4987	7.64	139.2394		5.676	2.3025	2.5404	12586.73	5270.201	1351.973	2100.42	3271.897	862.2386	8888.158	496.619	0.7763	122004.3	145289.1	9384.777	135904.3	142268.2	2.4946
12.5344	114.1697	87.0199	6.6703	152.7957		5.4913	2.3991	2.8451	12277.07	5310.218	1365.947	1772.023	4557.98	878.906	12534.45	282.717	1	116208.2	144925.4	12817.16	132108.2	140799.5	2.7641
12.3249	150.4897	86.8422	9.5288	150.3859		7.1837	2.8293	3.4795	11626.84	4943.522	1319.526	1659.398	4469.393	833	12290.26	284.1361	0.9972	113016.7	141491.1	12574.39	128916.7	137443.4	3.38
10.9481	116.8681	87.7388	6.6061	157.2708		4.1151	2.4669	2.9449	12759.8	5608.405	1385.564	2379.593	3981.139	1003.101	10948.14	283.1172	1	116701.9	143833.1	11231.25	132601.9		

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
10.9707	112.1543	88.9311	8.6275	147.8796		5.2107	2.4061	2.8552	11875.27	5371.006	1361.985	1846.723	3989.331	904.224	10970.66	282.9132	1	117162.5	144316.1	11253.58	133062.5	140693.6	2.7836
11.6959	117.6479	86.92	7.6291	158.4359		3.8804	2.4607	2.9358	12635.4	5659.241	1390.613	1906.202	4253.069	1024.274	11695.95	283.0112	1	116268.9	144147.8	11978.96	132168.9	140291.8	2.8573
11.3026	122.7564	87.1846	9.9483	146.1904		6.4389	2.5516	3.0698	11291.21	5104.907	1335.555	1805.8	3809.949	833	10445.59	283.4579	0.9242	113632.4	142991.5	10729.05	132262.4	139537.8	2.9056
11.1395	123.801	88.2656	6.529	151.0447		5.6095	2.5491	3.0662	12345.87	5284.605	1353.405	2386.903	4050.726	868.2378	11139.5	283.3668	1	115936.4	143259.3	11422.87	131836.4	139582.3	2.9875
10.6609	119.9884	87.6461	7.8384	144.1999		4.8602	2.5124	3.012	11508.26	5446.959	1369.529	1477.216	3876.704	935.8585	10660.93	283.3016	1	116530.9	143375.2	10944.23	132430.9	139852.2	2.938
12.8744	142.7166	87.7676	9.4645	144.3236		7.8192	2.8882	3.4554	11300.98	4805.842	1305.851	2531.134	3423.157	833	9259.757	430.9542	0.7192	114950.8	140541.5	9690.711	130850.8	137422.1	3.3839
10.6055	91.8595	87.2496	8.1379	144.5208		5.1618	2.1814	2.4864	11433.29	5381.6	1363.037	1899.631	3478.384	908.6365	9523.136	331.689	0.8979	120016.3	145771.1	9854.825	135916.3	142598.9	2.434
11.8292	178.0724	88.2027	10.4828	148.32		7.3975	3.0969	3.8742	11527.41	4897.212	1314.926	1415.114	4665.154	833	12829.18	284.9208	1	110595.6	139609.7	13114.1	126495.6	135388.3	3.7571
12.8971	128.8115	87.5978	8.5968	156.549		5.9985	2.5926	3.1304	12367.53	5200.335	1345.033	2260.817	4326.203	833.1394	11897.06	283.418	1	115111.2	143191.7	12180.48	131011.2	139270.8	3.0446
12.5527	124.9817	86.7158	8.5125	148.0444		6.5468	2.567	3.0926	11577.55	5081.52	1333.232	1910.034	4017.767	833	10985.42	283.4444	0.8751	115895.6	143064.5	11268.86	131795.6	139437	3.0141
12.4931	170.8107	87.2064	8.1918	142.6265		8.2289	3.0609	3.821	11269.58	4717.076	1297.035	1807.988	4212.485	833	11549.38	284.9959	0.9245	111683.9	139418.3	11834.38	127583.9	135608.8	3.7166
11.9085	130.085	87.1458	8.9601	134.2686		7.124	2.7092	3.2324	10497.88	4956.473	1320.812	1522.954	3462.637	833	9415.889	376.1001	0.7907	116081.2	141773.2	9791.989	131981.2	138621.2	3.1638
11.4444	147.9728	86.595	9.3761	134.3562		8.1976	3.0068	3.3501	10373.83	4723.852	1297.708	1826.958	3291.312	833	8944.259	537.0985	0.7815	114560.9	139942.3	9481.358	130460.9	136890.2	3.4815
10.4371	104.6505	88.6997	8.2737	155.0146		4.0293	2.3179	2.7252	12467.21	5626.977	1387.409	2244.664	3795.325	1010.836	10437.15	282.6778	1	118196.4	144816.3	10719.82	134096.4	141365.5	2.6603
11.1175	170.5102	87.6669	9.7319	150.336		6.0538	3.0697	3.8339	11717.99	5188.335	1343.841	1908.085	4042.726	833	11117.5	285.0892	1	111888.2	139190.8	11402.59	127788.2	135520.3	3.7328
12.7251	150.323	87.8342	10.2941	139.5434		7.7092	2.8773	3.5502	10820.21	4829.665	1308.217	1658.118	3789.207	833	10318.21	284.5642	0.8109	113896.3	140399.1	10602.78	129796.3	136986	3.4639
11.0758	75.4617	86.706	9.9473	143.148		4.8403	2.0679	2.1417	10987.86	5451.26	1369.956	1707.335	3119.657	937.6499	8467.426	565.4224	0.7645	122348.2	147281	9032.85	138248.2	144373.3	2.1084
10.857	101.113	87.922	7.5422	146.5959		5.4441	2.2742	2.6608	11783.35	5320.446	1356.963	2097.892	3722.886	883.1659	10215.33	282.5548	0.9409	118682	145079.9	10497.88	134582	141700.6	2.5988
10.8665	117.6956	88.3542	8.6436	149.0978		5.2692	2.4791	2.9629	11884.67	5358.341	1360.727	1913.209	3951.488	898.9489	10866.48	283.167	1	116658.9	143708.6	11149.65	132558.9	140119.5	2.8889
10.3956	116.1445	87.8252	9.1212	155.7204		4.7614	2.4694	2.9486	12255.82	5468.36	1371.654	2288.804	3780.233	944.7721	10395.64	283.1891	1	117037.3	143616.2	10678.83	132937.3	140178.6	2.8781
11.9388	107.1753	87.4368	8.5001	155.9241		5.6188	2.3315	2.7453	12308.13	5282.957	1353.204	2236.739	4166.19	867.4016	11440.78	282.6161	0.9583	117441.5	145064.9	11723.39	133341.5	141291.1	2.6739
11.7048	124.0536	87.2565	9.3489	156.4355		5.8794	2.5396	3.0522	12187.51	5226.129	1347.595	2111.604	4256.298	843.8829	11704.82	283.2682	1	115647.1	143535.6	11988.09	131547.5	139676.6	2.9102
10.8408	78.0667	86.4694	7.5272	137.7668		5.8286	2.3245	2.2282	10875.62	5237.144	1348.689	2486.986	2552.422	848.4704	6855.396	951.9993	0.6324	122634.4	146341.9	7807.436	138534.4	143828.7	2.2083
11.0043	116.0157	87.4443	5.7585	151.094		4.418	2.4549	2.9272	12338.1	5542.775	1379.046	2036.933	4001.576	975.7658	11004.34	283.071	1	116759.5	143946.9	11287.41	132659.5	140313.5	2.8533
11.1846	86.6668	87.5331	7.8741	152.6417		5.1572	2.1636	2.3822	12159.28	5382.601	1363.137	2761.852	3340.64	909.0532	9098.342	434.5376	0.8135	120761.4	146194.3	9532.88	136661.4	143125.6	2.3373
11.5653	129.4212	86.7326	8.4436	145.5402		6.6142	2.618	3.1678	11394.19	5066.925	1331.783	1717.657	4042.824	833	11102.83	283.5989	0.96	115421.7	142708.2	11386.42	131321.7	139042.9	3.0865
11.6595	114.6919	87.1062	9.6675	144.9246		6.0752	2.4451	2.9127	11222.78	5183.713	1343.382	1567.619	3893.063	833	10668.34	283.0766	0.915	117052.4	143903.8	10951.42	132952.4	140378.6	2.8414
12.2953	111.6345	87.9483	10.1673	136.5206		7.0722	2.6719	2.9133	10618.7	4967.682	1321.926	2060.491	3033.601	833	1107.292	274.6209	0.6645	118295.8	143090.7	8894.913	134195.8	140227.4	2.8691
11.3311	134.6352	87.87	8.3875	150.711		6.6643	2.6752	3.2522	11978.89	5056.076	1330.705	2249.668	4107.437	833	11294.83	283.7637	0.9968	114852.2	142330.8	11578.59	130752.2	138603.6	3.1671
12.7259	145.0972	88.4372	8.2598	142.9203		7.3658	2.7984	3.4338	11458.98	4904.082	1315.609	1925.916	4078.371	833	11151.9	284.1883	0.8763	113982.6	141318.6	11436.09	129882.6	137637.4	3.3444
10.1633	122.9315	87.7161	7.1473	143.6948		4.9444	2.56	3.0822	11569.26	5417.886	1366.641	1763.232	3695.748	923.7495	10163.31	283.5199	1	116477.8	142824.6	10446.83	132377.8	139461.8	3.0096
11.077	130.6204	87.3361	5.6971	157.6677		3.4911	2.6329	3.1898	12871.82	5753.138	1399.939	2225.373	4027.987	1063.382	11076.96	283.6514	1	115321.8	142582.4	11360.62	131221.8	138925.5	3.108
12.2642	136.4459	87.2139	7.839	157.9157		5.4013	2.6733	3.2494	12534.55	5329.725	1355.885	2098.207	4459.705	887.0304	12264.19	283.6346	1	114247.3	142695.1	12547.83	130147.3	138656	3.1575
11.6198	114.0886	88.869	8.7937	152.5247		5.6677	2.4173	2.8719	12213.46	5271.991	1352.15	2098.946	4225.388	862.984	11619.82	282.8779	1	116656	144458.7	11902.69	132556	140627.3	2.7957
9.9076	133.8102	87.0495	8.3367	144.563		7.3571	2.8103	3.305	11378.97	4905.954	1315.794	2603.511	3318.706	833	9095.878	477.4355	0.9181	115816.3	141289.6	9573.313	131716.3	138208	3.2397
10.6258	132.3024	88.0634	8.3708	154.5143		4.5516	2.6634	3.2347	12313.65	5513.811	1376.169	2194.053	3863.914	963.7021	10625.77	283.8089	1	115372.7	142182.3	10909.58	131272.7	138670.5	3.1548
12.4621	113.3365	86.7192	6.5829	155.3936		5.3336	2.3901	2.8318	12452.67	5344.381	1359.34	1922.143	4531.673	893.1346	12462.1	282.6959	1	116325.1	144969.9	12744.8	132225.1	140867.3	2.7517
11.5922	171.5571	85.9846	8.9756	136.2819		8.3614	3.0943	3.8701	10494.92	4688.364	1294.183	1406.735	3870.643	833	10606.91	285.2473	0.915	112018.9	138811.1	10892.16	127918.9	135304.9	3.7724
10.6989	176.5828	87.4587	9.1114	139.1706		8.4824	3.154	3.9582	10903.63	4662.14	1291.578	1975.497	3739.416	833	10269.51	285.4984	0.9599	111765	138220	10555.01	127665	134822.3	3.8609
11.3853	152.6182	88.1833	9.1761	148.2534		6.5475	2.8754	3.5474	11713.08	5081.384	1333.219	1923.357	4140.117	833	11385.33	284.4102	1	113233.6	140803.3	11669.74	129133.6	137046.8	3.4527
11.5266	168.142	88.1095	7.6935	152.4543		6.216	2.3045	3.1871	12259.59	5281.981	1353.143	2163.988	4191.498	867.1449	11526.62	284.9128	1	111903.6	139615.1	11811.53	127803.6	135813	3.6791
11.097	114.3109	88.4385	8.8702	144.7398		6.2221	2.4736	2.9365	11516.7	5151.881	1340.221	2265.01	3524.592	833	9632.893	307.3058	0.8681	117571.9	143412.1	9940.198	133471.9	140212.4	2.8719
10.508																							

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
12.9481	197.621	86.5501	8.4418	153.0759		7.306	3.2751	4.1371	11956.5	4917.033	1316.895	1779.178	4708.392	833	12948.09	285.473	1	109138	138271.5	13233.57	125038	134011.6	4.0097
11.382	163.7841	88.6698	7.2836	142.1021		6.3334	2.9937	3.7219	11565.15	5127.76	1337.825	1726.652	4138.917	833	11382.02	284.7999	1	112313.1	139879.9	11666.82	128213.1	136124.4	3.622
12.2563	158.2731	87.6892	8.5627	154.1175		6.5475	2.9131	3.6032	12194.77	5081.373	1333.218	2088.326	4456.85	833	12256.34	284.4123	1	112385.9	140826.7	12540.75	128285.9	136789.8	3.4999
11.6535	137.1945	86.9133	7.0022	158.645		4.7016	2.6964	3.2835	12677.5	5481.314	1372.941	2233.437	4237.644	950.1671	11653.52	283.7876	1	114457.5	142294.8	11937.31	130357.5	138452.2	3.1949
11.6597	128.7521	87.1903	9.1042	143.256		6.9294	2.6618	3.2049	11866.31	4998.626	1324.999	2106.09	3521.593	833	9597.351	230.1122	0.8231	116158.1	141975.5	9917.463	132058.1	138783.1	3.1341
11.214	105.4549	86.9449	7.0343	148.9985		5.6451	2.3284	2.7407	11882.58	5276.892	1352.637	2175.158	3810.864	865.0255	10452.24	282.7113	0.9321	118104.5	144739.9	10734.96	134004.5	141283.9	2.6753
9.8764	134.0921	87.2166	8.3337	144.2281		6.7317	2.7025	3.2923	11377.14	5041.46	1329.253	2185.713	3585.71	833	9860.474	284.0373	0.9984	115555.9	141600.4	10144.51	131455.9	138334.9	3.2164
11.9538	87.5432	87.0459	7.7124	152.5863		7.4222	3.2121	4.044	12105.21	4991.855	1314.394	2317.131	4346.83	833	11953.79	285.4278	1	110252.6	138391.8	12239.21	126152.6	134452	3.9289
12.2458	134.1975	88.8266	6.6944	145.2599		7.0333	2.6294	3.2804	11504.49	4976.111	1322.763	2209.768	3760.843	833	10259.18	283.9591	0.8378	115364.5	141807.6	10543.14	131264.5	138413.8	3.2019
10.7099	164.0722	88.1345	8.6941	146.6324		6.0268	3.0146	3.7527	11648.54	5194.19	1344.223	1980.408	3894.518	833	10709.93	284.9669	1	112575.3	139470.2	10994.89	128475.3	135930.9	3.6575
10.9843	117.2358	88.1372	9.2822	147.9054		6.0363	2.4736	2.9549	11663.07	5192.132	1344.219	1945.358	3946.362	833	10849.22	283.151	0.9877	116712.6	143745	11132.37	132612.6	140161.5	2.8812
11.7199	89.2089	87.6949	6.6725	138.4857		5.8758	2.3452	2.455	11220.44	5226.909	1347.673	2402.639	2997.013	844.2077	8088.54	692.4704	0.6902	120820.3	145501.3	8781.011	136720.3	142674.7	2.42
11.1512	89.6028	87.7357	6.6941	144.0478		5.7385	2.3155	2.4591	11385.77	5256.667	1350.628	2442.972	3076.896	856.6018	8341.257	629.2552	0.748	120685.3	145555.8	8970.513	136585.3	142668.2	2.4212
10.3428	103.6494	86.8995	6.5565	146.4105		5.4983	2.3103	2.7139	11763.06	5308.701	1355.797	2129.442	3688.845	878.274	10138.75	282.6838	0.9803	118449.2	144770.6	10421.44	134349.2	141416	2.651
12.7583	151.6773	86.4739	5.6289	147.0661		7.272	2.8339	3.4864	11889.56	4924.4	1317.627	1825.068	4587.463	833	12612.03	284.1074	0.9885	112775.8	141572	12896.14	128675.8	137420.7	3.3841
10.0276	160.7353	87.7479	7.4056	141.3327		7.861	2.9639	3.6779	11355	4796.775	1304.951	1896.859	4121.412	833	11308.48	284.7123	0.9402	112592.2	140085.4	11593.2	128492.2	136353.5	3.5799
11.1225	147.1604	86.7224	6.8067	144.5812		4.9751	2.8245	3.4724	11554.43	5422.057	1367.055	1428.575	4209.113	925.4869	11025.11	284.2919	1	113859.1	141068.5	11309.4	129759.1	137428	3.3828
11.2206	129.5283	87.1534	10.1316	136.3324		7.7569	2.8768	3.2432	10500.57	4819.33	1307.191	2040.365	3098.679	833	8400.73	688.8101	0.7487	116418	141407.6	9089.54	132318	138481.7	3.1894
11.3457	110.8752	88.7232	5.9631	158.5936		3.5354	2.3818	2.8194	13125.22	5733.989	1398.037	2410.091	4125.7	1055.406	11345.68	282.7915	1	117110.5	144639	11628.47	133010.5	140895.8	2.7465
11.7597	98.3391	87.4134	9.3433	145.4665		5.829	2.3441	2.6303	11356.59	5237.057	1348.681	2186.682	3333.736	848.4341	9051.911	458.9431	0.7697	119449.9	144860.8	9510.854	135349.9	141799.2	2.5807
12.4927	151.571	86.4592	6.7333	151.9035		6.2733	2.8358	3.4892	12110.65	5140.776	1339.118	1852.963	4542.793	833	12492.68	284.1298	1	112837.1	141513.9	12776.81	128737.1	137401	3.3877
10.2669	132.4505	87.9243	8.7334	155.5466		4.6104	2.6735	3.2496	12379.48	5501.073	1374.904	2409.687	3733.42	958.3967	10266.91	283.8879	1	115523.2	141974	10550.79	131423.2	138577.7	3.1718
11.0774	95.4085	86.8642	8.7861	156.51		4.7259	2.1792	2.5206	12191.83	5476.066	1372.42	1965.211	4028.151	947.9814	11077.42	282.1512	1	118867.4	146127	11359.57	134767.4	142470.4	2.4575
11.047	121.8719	87.1631	7.3553	151.1656		5.3941	2.5274	3.0341	12064.2	5331.271	1358.038	2068.129	4017.083	887.6745	11046.98	283.306	1	116165.5	143395.8	11330.29	132065.5	139748.6	2.957
12.9967	78.6791	88.1762	7.2969	143.5696		4.6417	2.0071	2.2008	11611.8	5494.309	1374.232	1931.788	3453.897	955.5795	9342.623	368.6667	0.7188	121622.7	147234	9711.29	137522.7	144107.9	2.1571
11.8337	151.1811	87.9387	10.0743	142.3423		7.6619	2.8838	3.5597	11083.39	4839.928	1309.237	1883.16	3816.071	833	10438.2	284.5691	0.8821	113769.9	140392.6	10722.76	129669.9	136942	3.3942
12.0682	133.6335	88.342	7.5813	150.8484		5.0877	2.6686	3.2425	12182.62	5397.658	1364.632	1714.572	4388.437	915.3246	12068.2	283.6441	1	114409.4	142661.2	12351.85	130309.4	138685.1	3.1521
10.5042	99.1905	87.3918	9.0404	139.3104		5.8162	2.3576	2.648	10915.2	5239.828	1348.956	1764.32	3310.511	849.5885	9043.899	461.9762	0.861	119358.6	144764.4	9505.875	135258.6	141704.5	2.5981
11.9032	140.2409	87.6889	9.3581	156.1157		5.1148	2.7253	3.3261	12228.67	5391.783	1364.049	1829.512	4328.452	912.8776	11903.25	283.8496	1	114073.3	142160.4	12187.1	129973.3	138237.4	3.2343
11.999	95.2812	87.378	8.5028	149.4346		5.2737	2.1986	2.5492	11786.69	5357.357	1360.29	2126.66	3641.506	898.5391	9926.886	282.3296	0.8273	119461.7	145570.9	10209.22	135361.7	142284.6	2.4916
11.0646	110.1143	87.0342	9.2844	152.534		5.8477	2.3907	2.8326	11859.48	5232.993	1348.277	2223.499	3805.968	846.7414	10444.83	282.9203	0.944	117621.7	144249.5	10279.5	133521.7	140796.2	2.7647
12.4082	168.8404	87.2634	9.4647	157.8825		6.2487	3.0176	3.7573	12283.05	5146.11	1339.648	2050.234	4512.062	833	12408.17	284.7284	1	111477.4	140070.3	12692.9	127377.4	135984.4	3.6477
11.1209	91.631	86.8648	8.8276	156.0405		4.1628	2.1253	2.4411	12176.97	5598.067	1384.537	1749.603	4043.97	998.7948	11120.92	281.9689	1	119260.7	146563.6	11402.89	135160.7	142893	2.38
12.3432	96.4863	87.1005	10.313	143.7973		5.6485	2.2905	2.5887	11041.84	5276.159	1352.564	1740.561	3405.833	864.7202	9232.991	409.3738	0.748	119595.3	145137.7	9642.365	135495.3	142033.8	2.5377
12.5053	117.5404	88.2482	8.621	146.4859		6.1924	2.4712	2.9513	11684.27	5158.308	1340.859	1858.532	4071.567	833	11142.82	283.1091	0.8911	116542.8	143868.7	11425.93	132442.8	140190.7	2.8759
11.4935	89.4354	86.6898	7.8008	149.7752		5.404	2.227	2.4448	11815.62	5329.124	1357.825	2546.825	3093.666	886.7799	9947.058	475.6269	0.7784	120492.7	145815.4	9422.685	136392.7	142782.2	2.4003
11.1387	158.72	87.694	7.6404	150.7745		6.1082	2.9471	3.6532	12070.04	5176.567	1342.673	2265.375	4050.426	833	11138.67	284.6812	1	112830.7	140154.1	11423.35	128730.7	136476.9	3.5573
11.5149	165.2972	86.1964	7.1765	143.4342		7.652	3.0058	3.7397	11334.16	4842.058	1309.448	1760.448	4187.205	833	11514.81	284.8202	1	112135.1	139834.7	11799.63	128035.1	136036.4	3.6381
11.1758	158.6938	87.7559	7.493	145.3664		5.4167	2.9459	3.6513	11687.53	5326.387	1357.553	1632.028	4063.922	885.8401	11175.79	284.6718	1	112816.9	140177.4	11460.46	128716.9	136488.3	3.5552
11.0566	134.7735	88.4425	7.9845	148.7045		5.981	2.6825	3.2629	11964.46	5204.126	1345.41	2157.62	4020.587	834.7185	11056.62	283.8177	1	114948.2	142188.6	11340.44	130848.2	138538.1	3.1791
11.1485	163.7278	87.341	9.4484	135.724		8.3317	3.0651	3.7895	10571.9	4694.789	1294.821	1843.687	3503.599	833	9569.817	234.7437	0.8584	113059.3	138864	9904.615	128959.3	135675.7	3.7043
11.9149	121.3266	88.2781	8.8882	154.0895		6.2244	2.5102	3.0089	12233.15	5151.387	1340.272	2312.804	4193.791	833	11520.74	283.1938	0.9669	115994.9	143698.9	11803.93	131894.9	139899.2	2.9293
11.4212	119.6743	87.3946	7.28																				

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
10.1517	127.8993	88.8347	8.3744	154.8588		5.003	2.6213	3.1726	12459.98	5416.011	1366.455	2661.019	3691.527	922.9688	10151.7	283.7273	1	116005	142340.5	10435.43	131905	138981.3	3.0978
11.524	132.9242	88.2921	10.2831	144.799		6.8278	2.667	3.2401	11295.62	5020.633	1327.185	1781.217	3931.688	833	10785.39	283.8009	0.9359	115242	142211.2	11069.19	131142	138648	3.1589
12.4004	114.6175	86.91	9.1767	139.4217		6.2484	2.4637	2.9401	10837.71	5146.177	1339.654	1534.823	3582.059	833	9736.892	283.2453	0.7852	117506	143426.1	10020.14	133406	140200.6	2.874
11.7681	149.548	88.3802	7.1484	137.0265		7.638	2.872	3.5423	11130.92	4845.11	1309.751	2012.233	3728.822	833	10189.72	284.564	0.8659	114019.8	140394	10474.28	129919.8	137022.4	3.4572
11.9383	179.0489	87.7016	7.866	144.1084		7.0464	3.1314	3.9251	11504.97	4973.289	1322.482	1633.013	4341.188	833	11938.27	285.1678	1	110889.3	139012.7	12223.44	126789.3	135078	3.814
10.8089	161.9314	86.7111	9.1328	152.4697		5.1211	2.9996	3.7159	11828.34	5390.434	1363.914	1829.171	3930.505	912.3155	11080.89	284.8694	1	112707.8	139701.6	11093.76	128607.8	136130.5	3.6209
11.4506	106.0375	88.1171	8.8542	149.0739		5.183	2.3163	2.7229	11816.03	5377.016	1362.582	1603.856	4163.847	906.7273	11450.58	282.5651	1	117553.9	145187.1	11733.15	133453.9	141410.2	2.6521
11.7226	196.7427	86.8507	8.5494	154.9386		5.8634	3.3038	4.1793	12131.89	5229.604	1347.94	2044.248	4262.773	845.3299	11722.63	285.7642	1	109684.1	137592.5	12008.39	125584.1	133727	4.0619
11.0267	111.7387	86.9536	9.0629	151.6296		6.0237	2.424	2.8815	11810.54	5194.856	1344.489	2439.286	3596.907	833	9844.787	283.0988	0.8928	117748	143775.9	10127.89	133648	140515.7	2.8162
12.5913	184.1089	86.8866	6.9245	151.7844		6.0755	3.1613	3.9692	12045.93	5183.632	1343.374	1705.275	4578.649	833	12591.29	285.1641	1	110245.6	139022	12876.45	126145.6	134877.1	3.8509
10.9148	144.3215	87.7171	7.0353	148.4645		5.6289	2.7955	3.4296	11978.39	5280.413	1352.987	2107.49	3969.008	866.4922	10914.77	284.2105	1	114156	141255	11198.98	130056	137650	3.342
11.024	129.9203	87.0937	9.6002	146.212		6.6505	2.6338	3.1911	11330.48	5059.062	1331.002	1819.528	3885.89	833	10675.54	283.7041	0.9684	115572.1	142431.4	10959.25	131472.1	138903.6	3.112
10.9585	149.6533	86.052	7.9369	154.5819		6.5829	2.8538	3.5155	12075.18	5073.711	1332.457	2449.098	3984.91	833	10958.51	284.3978	1	113673.1	140816	11242.9	129573.1	137196.9	3.4252
11.362	136.367	86.839	7.7549	150.8195		5.6974	2.6822	3.2625	11927.42	5265.56	1351.512	1916.387	4131.656	860.3057	11362.05	283.7778	1	114755	142300.8	11645.83	130655	138552	3.1765
11.8078	118.7976	86.9477	7.8876	151.8896		5.5223	2.4726	2.9535	11968.79	5303.496	1355.28	1738.158	4293.755	876.1061	11807.83	283.0374	1	116103.7	144094.5	12090.87	132003.7	140202.5	2.8737
12.8539	128.8893	87.069	8.6489	140.9986		7.2871	2.7394	3.2164	11057.12	4921.125	1317.301	2198.156	3385.542	833	9152.927	286.2347	0.7121	116268.8	141777.9	9609.162	132168.8	138684.8	3.1522
11.2194	215.0786	87.269	9.6218	134.8389		9.0171	3.4807	4.4401	10469.59	4546.301	1280.073	1328.448	4079.771	833	11219.37	286.4293	1	108622.5	136028.3	11505.8	124522.5	132324.6	4.3192
11.2124	184.3036	86.9499	9.1484	141.8781		8.3221	3.2027	4.0302	11038.33	4696.868	1295.027	1734.313	4077.124	833	11212.09	285.5138	1	110791.7	138189.3	11497.61	126691.7	134488.2	3.9222
11.1685	81.4653	87.0257	9.0802	158.9708		3.7893	1.9768	2.2222	12381.07	5678.98	1392.574	1733.701	4061.286	1032.958	11168.54	281.4743	1	120390.8	147740.8	11450.02	136290.8	144055	2.1668
11.7828	117.5835	86.8187	9.4441	153.0418		6.1103	2.4699	2.9494	11841.55	5176.111	1342.627	1997.406	4090.406	833	11230.11	283.0947	0.9531	116497	143910.2	11513.2	132397	140204.1	2.8734
13.1284	125.9057	85.2907	8.2141	154.891		6.3412	2.5411	3.0545	11938.48	5126.064	1337.657	1639.264	4600.493	833	12635.67	283.1625	0.9625	115037.9	143856.7	12918.83	130937.9	139698.1	2.9662
11.6681	91.8746	86.7551	7.0375	149.7513		5.0358	2.1429	2.4647	11937.82	5408.911	1365.75	2064.732	3776.413	920.0113	10331.76	282.1028	0.8855	119635.6	146149.5	10613.86	135535.6	142732.9	2.4094
11.2305	110.5519	87.3437	7.4731	151.2526		4.6408	2.3799	2.8167	12080.63	5494.483	1374.249	1770.438	4083.807	955.6521	11230.47	282.7982	1	117199.1	144612.4	11513.27	133099.1	140906.3	2.7445
10.5309	137.942	86.9745	8.317	141.9334		6.9758	2.737	3.3432	11164.12	4988.585	1332.002	1862.36	3753.676	833	10316.72	284.0943	0.9797	114994.8	141495.6	10600.81	130894.8	138083.2	3.2626
11.493	102.0628	87.8699	7.9647	155.407		5.4484	2.2756	2.6628	12389.05	5319.506	1356.87	2485.94	3941.959	882.7744	10816.58	282.4969	0.9411	118282.5	145281.6	11099.08	134182.5	141708.8	2.5973
12.9231	166.8235	87.2057	7.1973	154.1736		6.2521	2.9833	3.7068	12335.18	5149.369	1339.574	1915.932	4699.306	833	12923.09	284.5433	1	114147.5	140525.2	13207.64	127317.5	136273.6	3.5946
10.3489	97.1527	88.9356	10.6395	148.5458		4.9344	2.217	2.5764	11630.56	5430.886	1367.932	1737.339	3763.239	929.164	10348.91	282.3493	1	119043.8	145575.1	10631.26	134943.8	142152.9	2.5158
11.3062	103.4135	88.1499	7.0561	146.9696		5.4257	2.2888	2.6822	11918.34	5324.437	1357.359	1919.904	4029.808	884.8279	11075.63	282.5137	0.9796	118011.8	145270	11358.14	139111.8	141613.8	2.6147
12.2277	159.0672	86.0864	9.2533	151.6611		7.6795	2.9317	3.6305	11652.59	4836.111	1308.857	1953.301	4319.324	833	11867.3	284.5273	0.9705	112488.7	140450.5	12151.82	128388.7	136628.9	3.5294
10.7144	170.1587	87.9679	6.6507	154.477		3.6764	3.0771	3.8449	12258.54	5703.455	1395.005	2119.257	3896.135	1042.689	10714.37	285.1741	1	112084.7	138984.3	10999.55	127984.7	135443.5	3.7469
12.2472	162.4076	87.8431	6.1587	150.1562		6.005	2.9564	3.667	12265.42	5198.921	1344.893	2033.084	4543.524	833	12247.19	284.5538	1	112055.1	140486.8	12531.75	127955.1	136452.9	3.5617
12.488	141.6915	87.8132	7.2411	152.1384		5.5121	3.3293	3.3293	12258.1	5305.701	1355.499	1776.795	4451.084	877.0246	12487.98	283.7809	1	113683	142354.8	12771.76	129583	138243.6	3.2331
11.6015	136.766	87.4415	8.2888	146.2301		6.8524	2.699	3.2873	11574.54	5015.317	1326.657	1722.149	4125.381	833	11337.33	283.8365	0.9772	114639.5	142160.7	11621.17	130539.5	138419.8	3.2008
10.1141	91.3689	88.0078	6.5673	151.4176		4.7356	2.1395	2.4621	12331.53	5473.943	1372.209	2458.418	3677.862	947.0973	10114.12	282.1125	1	119803.2	146099.4	10396.23	135703.2	142752.9	2.4057
11.8015	102.4408	87.5867	7.5261	148.6598		5.4549	2.276	2.6634	11901.78	5318.108	1356.731	1911.434	4031.317	882.1919	11059.64	282.473	0.9371	118122.1	145364.2	11342.11	134022.1	141713.2	2.5965
12.4027	205.0127	86.9785	6.3908	142.561		5.4041	3.4173	4.3665	11488.65	5329.119	1357.825	1721.282	3791.647	886.7779	10427.05	286.3544	1	109610.8	136224.2	10713.4	125510.8	132775.5	4.2365
12.3725	107.0172	86.755	8.6623	147.441		5.6936	2.3341	2.7491	11514.07	5266.386	1351.594	1541.156	4092.287	860.6496	11208.84	282.6493	0.9059	117571.3	144962.7	11491.48	133471.3	141263.6	2.679
11.541	142.5248	86.7472	8.2229	147.3106		7.0604	2.7648	3.3843	11567.46	4970.254	1322.181	1913.792	4126.229	833	11341.87	284.0523	0.9827	114123.6	141649.9	11625.92	130023.6	137902.2	3.2949
11.9832	139.5085	89.1748	9.5559	147.2676		5.2673	2.715	3.4617	11725.28	5358.741	1360.767	1347.133	4357.527	899.1156	11983.2	283.8059	1	114102.1	142269.1	12267.01	130002.1	138320.3	3.2191
10.8185	180.5156	87.7647	6.6788	149.7798		4.1174	3.1773	3.9927	12145.03	5607.9	1385.514	1812.726	3934	1002.891	10818.5	285.4913	1	111237.3	138241.3	11103.99	127137.3	134666.9	3.8894
10.9167	118.1323	86.9736	7.3987	147.6829		5.5682	2.4835	2.9694	11751.85	5293.551	1354.292	1860.325	3969.716	871.9639	10916.72	283.1759	1	116592	143691.9	11199.9	132492	140086.7	2.9949
12.4535	136.1978	85.4761	9.3258	143.4943		6.9747	2.6954	3.2249	10927.13	4988.822	1324.025	1284.414	4094.87	833	11212.46	283.8406	0.9003	114747.6	142143.9	11496.3	130647.6	138443.3	3.1965
11.0976	132.635	88.4592	7.3859	145.8342		6																	

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
11.5252	84.9312	87.2452	8.656	148.9643		4.8836	2.0881	2.3381	11706.99	5441.884	1369.025	2090.002	3470.333	933.7447	9455.988	345.4988	0.8205	120837.2	146538.7	9801.487	136737.2	143383.6	2.29
11.7046	151.9354	86.0286	9.209	152.5531		5.9042	2.8598	3.5245	11719.07	5220.763	1347.062	1651.396	4256.202	841.6478	11704.56	284.3153	1	113151.7	141040.6	11988.87	129051.7	137181.4	3.28
11.9228	125.7758	87.6339	8.1035	143.7071		6.4679	2.5695	3.0964	11429.09	5098.63	1334.932	1642.723	4117.808	833	11302.5	283.4146	0.9476	115672.2	143158.1	11585.91	131572.2	139428.6	3.0157
11.3029	108.1326	85.8811	8.4799	144.8468		6.3966	2.5056	2.8305	11211.33	5114.06	1336.464	2249.906	3275.896	833	9806.4	509.6301	0.788	118436.5	143752.5	9416.031	134336.5	140721.5	2.7785
10.8368	123.29	88.0801	9.8137	147.2252		5.6451	2.5495	3.0668	11522.79	5276.892	1352.637	1685.568	3940.672	865.0253	10836.85	283.4043	1	116127.4	143147.6	11120.25	132027.4	139568	2.9901
11.2195	151.5897	87.1261	8.4948	146.0798		6.8713	2.8684	3.5371	11340.36	5011.211	1326.249	1688.098	4079.806	833	11219.47	284.4102	1	113393.2	140797.1	11503.88	129293.2	137094	3.4441
12.0724	85.3986	86.342	8.1453	156.6049		5.1033	2.14	2.354	12245.98	5394.283	1364.297	2806.207	3365.278	913.9188	9128.524	425.7577	0.7561	120899.3	146353.6	9554.282	136799.3	143278.1	2.3093
11.7155	85.1189	89.1345	7.8682	143.5187		5.5031	2.2449	2.3615	11663.24	5307.672	1355.694	2637.068	3082.96	877.8453	8334.45	620.3521	0.7114	121217.3	146072.1	8954.802	137117.3	143189.6	2.3256
12.0172	96.9309	88.6039	7.6804	145.8617		5.6094	2.2838	2.5963	11803.65	5284.637	1353.406	2463.746	3431.613	868.2513	9321.654	386.3851	0.7757	119516.4	145124.4	9708.039	135416.4	141999.4	2.544
11.8606	145.3917	86.8306	7.9443	151.31		6.7378	2.7841	3.4129	11936.28	5040.153	1329.124	2019.047	4312.957	833	11860.63	284.0471	1	113642	141686.6	12144.68	129542	137777.3	3.3187
10.5321	120.3892	86.9083	7.3739	148.3968		5.0129	2.5202	3.0235	11802.65	5413.873	1366.243	1868.607	3829.849	922.078	10532.09	283.3428	1	116552.5	143267.9	10815.43	132452.5	139786.5	2.95
11.2459	154.0818	86.1209	6.9553	157.3174		4.5069	2.8947	3.576	12454.13	5523.503	1377.131	2094.326	4089.432	967.7391	11245.94	284.4934	1	113171	140601.4	11530.43	129071	136889.8	3.4816
12.4277	155.5879	87.1917	8.3933	150.6964		6.6187	2.8792	3.5532	11874.64	5065.949	1331.686	1706.48	4535.522	833	12472.69	284.2724	1	112512.4	141169.4	12756.96	128412.4	137062.9	3.4498
12.7273	133.5497	86.4472	8.5028	145.0197		6.9875	2.6797	3.2587	11303.47	4986.051	1323.75	1884.802	3873.872	833	10562.1	283.8712	0.8299	115286.2	142032.2	10845.97	131186.2	138540.9	3.1786
11.3826	118.4021	87.5038	7.6842	152.1743		5.6212	2.4769	2.9597	11246.49	5282.075	1353.152	2102.954	4139.127	867.1843	11382.6	283.1002	1	116344.2	143909.9	11665.7	132244.2	140154.7	2.8825
11.7732	135.1167	86.9971	10.1596	132.4334		8.2848	3.0102	3.3497	10175.86	4704.969	1295.832	1955.698	2984.362	833	8050.284	808.3863	0.6838	115979	140737.6	8856.67	131879	137886	3.2987
11.6289	159.2024	87.5856	9.0001	141.5124		7.8301	2.9567	3.6672	11120.82	4803.487	1305.617	1778.681	3997.033	833	10968.78	284.737	0.9432	112863.9	140017.4	11253.52	128763.9	136399.4	3.5724
12.2099	96.836	88.0821	9.2021	140.1139		5.3496	2.2187	2.5788	11052.17	5340.927	1358.997	1380.912	3677.639	891.696	10021.04	282.3879	0.8207	119243	145446.5	10303.42	135143	142129.8	2.52
11.1933	164.073	86.3309	8.4523	149.8511		6.1748	3.0018	3.7338	11670.19	5162.13	1341.239	1861.547	4070.275	833	11193.26	284.8537	1	112370	139748.1	11478.11	128270	136053.3	3.635
11.3885	123.1584	86.2018	8.281	139.7915		6.7917	2.6239	3.107	10892.65	5028.471	1327.963	1849.429	3451.79	833	9409.021	375.4406	0.8262	116753.1	142437.5	9784.462	132653.1	139287.9	3.0415
11.049	130.3064	86.2803	6.7492	152.9873		5.494	2.6298	3.1853	12167.26	5309.63	1355.889	2203.249	4017.627	878.661	11049.03	283.6446	1	115363.9	142596.6	11332.67	131263.9	138948.6	3.1038
11.7663	97.4177	87.4122	7.5791	155.8856		5.125	2.1994	2.5505	12444.83	5389.586	1363.83	2198.005	4179.447	911.9625	11485.45	282.1775	0.9761	118444.6	146112.2	11767.63	134344.6	142324.2	2.484
11.7549	112.8188	86.9011	7.5168	143.2423		5.9931	2.4203	2.8762	11371.2	5201.502	1345.149	1683.311	3905.61	833.6255	10700.02	282.9906	0.9103	117225.8	144108.8	10983.01	133125.8	140573.4	2.8056
11.2729	113.6283	87.5347	9.0699	150.566		5.3998	2.4187	2.8764	11814.12	5330.047	1357.917	1737.772	4099.223	873.1647	11272.87	282.9214	1	116888.7	144324.5	11555.79	132768.7	140607.4	2.7999
12.3944	77.6073	87.1623	10.0173	139.2154		5.5515	2.2441	2.2086	10739.78	5297.165	1354.651	2049.159	2763.334	873.4691	7399.75	820.529	0.597	122485.6	146605.9	8220.279	138385.6	143959.7	2.1842
10.5314	102.6674	87.6411	7.6629	153.5389		5.9793	2.4036	2.7184	10840.16	5204.478	1345.445	1733.714	3319.659	834.8651	9068.799	458.7561	0.8611	118970.4	144398.1	9527.736	134870.4	141331.2	2.6666
12.4019	130.6161	86.0323	6.9956	158.5141		5.205	2.6651	3.2374	12258.43	5372.26	1362.109	1977.523	4509.793	904.7463	12401.93	283.5907	0.9624	114223.1	142808.6	12685.52	130123.1	138725.1	3.1448
11.4085	112.6835	87.0436	6.5906	151.7598		5.8944	2.4127	2.8651	12029.53	5222.877	1347.272	2397.441	3597.411	842.5284	10979.2	282.9343	0.9624	117105	144267.1	11262.14	133005	140641.8	2.7931
11.8998	109.3047	86.9761	9.7653	148.1861		5.9564	2.3908	2.8327	11441.57	5209.457	1345.939	2017.744	3629.496	836.9386	9896.979	282.9812	0.8317	117974	144053.9	10179.96	133874	140777	2.7683
12.1241	83.7721	88.2941	6.2384	145.4319		4.9758	2.1027	2.3167	11933.51	5241.907	1367.041	2415.333	3401.801	925.4242	9128.312	402.317	0.7426	121058.9	146579.9	9620.629	136958.9	143482.6	2.2718
11.0329	103.8898	87.1513	9.6676	148.5571		5.5554	2.3078	2.7103	11510.75	5296.322	1354.567	1783.94	3800.802	873.118	10431.38	282.6446	0.9455	118279.5	144893.5	10714.02	134179.5	141444.7	2.6458
12.6163	120.2441	87.3001	8.5669	142.5697		6.4871	2.531	3.0394	11224.97	5094.468	1334.518	1900.82	3660.161	833	9951.7	283.4475	0.7888	116847.0	142975.8	10235.15	132740.7	139681.1	2.9693
12.5093	178.5038	86.2052	7.6149	156.6364		6.7708	3.1101	3.8936	12310.11	5033.001	1328.413	2164.872	4548.82	833	12509.26	285.0116	1	110695.3	139388.9	12794.27	132695.3	135271	3.7786
10.6044	122.5102	87.6847	7.3842	143.2999		6.436	2.5583	3.0797	11506.99	5105.526	1335.617	1186.825	3644.018	833	9999.915	283.5339	0.943	116595.5	142778.9	10283.45	132495.5	139468.7	3.0083
11.4177	118.6856	86.8355	7.6723	148.2667		6.1158	2.4855	2.9724	11737.26	5174.903	1342.507	1928.732	4056.114	833	11146.57	283.156	0.9763	116428.5	143758.3	11429.73	13328.5	140079	2.8963
11.0207	180.6911	87.584	7.3988	157.8798		4.3956	3.1733	3.9868	12659.62	5547.627	1379.527	2345.146	4007.529	977.7867	11020.71	285.4466	1	111141.3	138347.4	11306.15	127041.3	134708	3.8819
12.0598	121.7109	88.2365	5.8625	154.3347		5.0373	2.5031	2.9985	12713.17	5408.587	1365.718	2231.598	4385.392	919.8766	12059.83	283.1075	1	115703.8	143946.8	12342.94	131603.8	139973.6	2.9157
11.5824	126.0938	86.9149	6.3175	143.7769		6.5597	2.5865	3.1213	11588.04	5078.724	1332.955	2031.359	3918.006	833	10720.7	283.5412	0.9256	115913	142817.2	11004.24	131813	139274.9	3.0439
11.8393	145.4585	88.2996	9.5066	135.1061		7.5492	2.8363	3.4896	10645.41	4684.338	1311.661	1645.834	3580.574	833	9781.893	284.4996	0.8262	114558.4	140524.8	10066.39	130458.4	137284.5	3.4091
11.7807	122.9584	88.5726	8.727	154.3447		6.4125	2.5442	3.059	12323.75	5110.63	1336.124	2669.248	3972.749	833	10892.16	283.3801	0.9246	116133.4	143208.9	11175.54	132033.4	139611.5	2.9821
11.0971	106.1188	87.9558	10.0768	156.2073		5.4338	2.3246	2.7352	116125.26	5322.674	1357.184	2167.613	4031.695	884.0937	11087.04	282.6311	0.9991	117723.8	144993.5	11369.67	133623.8	141333.6	2.6661
10.3524	65.1213	86.6631	7.4206	154.353		3.8756	1.8142	1.8874	12231.32	5660.279	1390.716	2423.307	3330.583	1024.706	9109.07	406.2539	0.8799	123414.5	148829.9	9515.324	139314.5	145766.9	1.8526

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	
11.3268	116.7388	87.6046	8.7906	150.6585		6.2257	2.4571	2.9306	11873.99	5281.096	1353.055	1852.234	4118.827	866.7767	11326.78	283.0418	1	116534.1	144043.9	11609.82	132434.1	140306.7	2.8546	
12.6563	147.0379	87.3569	9.4368	153.5276		6.7254	2.7825	3.4105	11962.88	5042.827	1329.389	1753.39	4602.275	833	12656.26	283.9361	1	113147.4	141987.6	12940.19	129047.4	137822.2	3.3105	
12.0856	110.3802	87.0646	8.7571	145.8751		6.0051	2.4033	2.8511	11423.12	5198.89	1344.89	1982.926	3661.417	833	9980.166	283.0141	0.8258	117822.4	143985.6	10263.18	133722.4	140681.9	2.7857	
11.8775	116.9874	87.0093	8.096	154.8935		5.452	2.4485	2.9179	12233.15	5318.723	1356.792	1944.111	4319.079	882.448	11877.47	282.9508	1	116246.9	144307.3	12160.42	132146.9	140392.9	2.8387	
11.2675	83.0025	87.3759	7.8705	151.1646		4.8942	2.0907	2.2997	12018.39	5439.595	1368.797	2491.222	3383.99	932.7911	9219.342	401.3668	0.8182	121149.7	146670.4	9620.709	137049.7	143573.5	2.2551	
12.2187	101.3913	86.2845	6.7679	155.8113		5.2655	2.2432	2.6152	12373.68	5361.099	1361.001	1976.601	4372.876	900.0978	1020.25	282.2669	0.9838	117755.8	145958.3	12302.51	133655.8	141998.2	2.5442	
11.2732	123.9976	86.9405	7.9042	159.8910		4.6706	2.5648	3.0893	11056.43	4998.047	1334.874	1545.794	3842.717	833	10541.16	283.4906	0.9351	116197.6	142922.3	10824.65	132097.6	139437.8	3.014	
11.2576	141.6664	88.7268	8.2544	143.657		7.1694	2.771	3.3934	11560.42	4946.622	1319.834	2166.291	3892.673	833	10685.34	284.1596	0.9492	114493.5	141363	10969.49	130393.5	137831.9	3.3087	
11.8118	130.034	87.2251	6.6236	155.4369		5.0977	2.609	3.1547	12528.44	5395.499	1364.418	2156.913	4293.183	833	11181.76	283.4822	1	115037.5	143032.7	12095.24	130937.5	139139.2	3.3088	
10.3518	95.412	86.9008	7.6477	147.9789		5.4931	2.2738	2.5662	11727.78	5309.833	1355.909	2405.171	3376.124	878.7453	9240.412	406.5876	0.8926	119712.6	145259.6	9647	135612.6	142154.3	2.5155	
11.7628	210.4159	86.7915	7.6384	146.12		6.7946	3.4238	4.3562	11565.85	5027.829	1327.899	1697.739	4277.38	833	11762.8	286.1494	1	108726.5	136675.4	12048.95	124626.5	132796.9	4.2326	
12.2355	146.5746	88.8522	6.945	151.659		4.5609	2.7879	3.4185	12421.96	5511.809	1375.97	1720.053	4449.255	962.8683	12235.46	284.0095	1	113373.6	141793.1	12519.47	129273.6	137763.1	3.3213	
12.4768	91.4135	88.3918	5.8132	136.5247		5.1167	2.1471	2.4732	11274.02	5391.387	1364.009	1623.825	3580.081	912.7128	833	9727.7	282.175	0.7797	119995.1	145990.9	10009.88	135895.1	142682.8	2.4186
12.0658	145.1169	87.5564	8.1546	152.7047		6.9536	2.7762	3.4012	11216.19	4993.379	1324.478	2188.631	4384.7	833	12057.83	283.9951	0.9993	113578	141819.8	12341.83	129478	137847	3.3059	
12.8613	146.3808	85.6193	8.3993	143.3178		8.022	2.9435	3.5184	11067.01	4761.901	1301.487	2370.021	3398.603	833	9190	285.5569	0.7145	114639.9	140185.4	9645.557	130539.9	137080.5	3.4465	
12.6905	97.098	87.0899	6.9209	144.5554		5.6908	2.2992	2.6014	11588.87	5266.993	1351.654	2296.034	3411.29	860.9024	9233.572	409.7011	0.7276	119527.1	145070.4	9643.273	135427.1	141966.2	2.55	
10.8756	203.9674	86.8091	8.6386	152.2868		6.6672	3.3944	4.3127	11904.34	5055.434	1330.641	2328.487	3954.776	833	10875.64	286.2023	1	109509.5	136571.4	11161.84	125409.5	132978.4	4.1993	
10.8764	105.1679	86.3275	7.4953	146.8529		5.4692	2.3175	2.7246	11576.73	5314.999	1356.422	1691.537	3930.88	880.8971	10808.53	282.6371	0.9938	117959.6	144950.7	11091.17	133859.6	141380.5	2.6575	
12.3977	153.757	86.6285	7.1709	146.3227		7.4178	2.478	3.5357	11626.45	4892.806	1314.489	1754.901	4429.258	833	12147.5	284.2754	0.982	112793.8	141152.5	12458.78	128693.8	137142.1	3.3543	
11.006	102.4821	87.8227	8.5263	142.4453		6.0224	2.4071	2.7154	11295.39	5195.155	1344.519	2207.204	3313.512	833	9028.599	469.5654	0.8203	119003.5	144401.7	9498.165	134903.5	141344.2	2.6642	
10.4807	90.4013	89.0937	8.985	142.4439		5.4252	2.2455	2.466	11410.98	5324.547	1357.37	2174.975	3267.218	884.8737	8920.168	483.7122	0.8511	120390.6	145694.5	9403.88	136290.6	142667.4	2.4214	
11.3912	116.8827	88.0819	8.3908	151.0281		6.1264	2.4709	2.9508	12035.61	5172.806	1342.279	2362.279	3923.441	833	10767.86	283.1512	0.9453	116786.3	143737.3	11051.02	132686.3	140180	2.8778	
11.3389	103.8946	86.1498	8.499	153.1143		5.3929	2.2919	2.6869	11889.61	5331.544	1358.065	1820.305	4089.906	887.7879	11245.18	282.5063	0.9917	117877.7	145305.4	11527.69	133777.7	141594.6	2.6182	
10.7063	141.6464	87.3287	9.0439	144.9787		7.0893	2.7745	3.3985	11349.63	4963.976	1321.557	1997.061	3832.032	833	10533.6	284.1912	0.9839	114563.2	141281	10817.79	130463.2	137798.8	3.3148	
10.243	150.4801	86.5889	7.3571	147.1165		5.6906	2.881	3.5555	11656.31	5267.035	1351.658	2049.987	3724.709	860.92	10422.95	284.5868	1	113915.7	140343.2	10527.54	129815.7	136954.4	3.4699	
12.4826	150.9703	85.8866	8.3018	145.6306		6.818	2.8296	3.468	11296.63	5022.77	1327.397	1172.34	4539.122	833	12482.59	284.1111	1	112891.8	141558.5	12766.7	128791.8	137448.9	3.3787	
10.7511	118.4155	86.829	6.7651	151.9639		5.3231	2.4906	2.98	12166.81	5346.655	1359.566	2255.011	3909.5	894.0817	10751.13	283.2188	1	116642.7	143577.1	11034.35	132542.7	140025.1	2.9062	
11.5879	125.1005	86.1708	8.4398	137.9579		7.0449	2.6874	3.1472	10723.61	4973.609	1322.514	1817.776	3374.725	833	9177.675	446.0752	0.792	116629	142152.8	9623.75	132529	139054.9	3.0843	
11.7371	107.3682	86.5363	7.9396	153.8556		6.8666	2.6194	2.8306	10677.79	5012.232	1326.35	2098.377	3005.833	833	8113.039	283.4624	0.6912	118768.6	143513.1	8844.502	134668.6	140666	2.7886	
10.6667	123.9286	86.4503	7.7706	145.4011		5.2601	2.5601	3.0833	11440.11	5237.174	1348.692	1717.7	3886.064	848.4829	10866.68	283.4595	1	116136.2	143006.3	10970.14	132036.2	139475	3.0072	
11.0518	114.9857	88.4388	9.2621	147.5215		5.9667	2.4454	2.9133	11680.27	5207.219	1345.717	1949.031	3940.293	836.0068	10829.72	283.0595	0.9799	116945.7	143958.5	11112.78	132845.7	140381.3	2.8409	
11.9016	116.5573	86.9033	8.8388	148.4721		6.0251	2.4516	2.9224	11590.7	5194.558	1344.46	1636.987	4179.692	833	11480.94	283.0058	0.9647	116478.4	144142.3	11763.95	132378.4	140355.5	2.8506	
10.3074	110.5782	85.9178	6.6313	141.268		6.2455	2.4876	2.8722	11200.65	5146.808	1339.717	2105.925	3373.205	833	9234.106	419.4983	0.8959	118077.7	143631.3	9653.604	133977.7	140523.8	2.8147	
11.5539	97.7136	87.9825	8.0075	150.1703		5.2744	2.2194	2.5799	12009.87	5357.214	1360.615	2110.262	3881.298	898.4796	10639.38	282.328	0.9208	118837.7	145658.9	10921.71	134737.1	142143.2	2.5176	
11.6213	107.1751	86.1219	8.4206	147.628		5.835	2.3617	2.7897	11470.89	5235.749	1348.551	1997.09	3639.614	847.8893	9939.472	282.8781	0.8553	118175.2	144297.6	10222.35	134075.2	141007	2.7261	
11.143	122.5561	86.1165	8.4876	157.9629		5.4548	2.5337	3.0435	12262.48	5318.124	1356.732	2251.417	4052.012	882.1986	11143.04	283.3155	1	116054.3	143380.7	11426.35	131954.3	139702.5	2.9654	
11.8031	180.4693	86.9074	8.445	150.8843		7.9122	3.149	3.951	11838.75	4785.68	1303.849	2222.193	4292.027	833	11803.08	285.2458	1	110837.8	138826.1	12088.32	126737.8	134934.9	3.8403	
11.8001	140.7456	87.8448	6.6771	149.9971		5.9876	2.7335	3.3382	11874.93	5202.689	1345.267	1799.897	4290.955	834.1201	11800.13	283.8898	1	114075.1	142059.1	12084.02	129975.1	138169.3	3.2468	
12.6992	182.9178	87.0561	7.0336	155.4091		6.6307	3.1469	3.4468	12426.21	5063.356	1331.428	2188.531	4617.899	833	12699.22	285.1012	1	110289.1	139173.4	12984.32	126189.1	134993.8	3.8294	
12.2537	164.7376	85.8482	7.2894	139.2456		8.0589	3.0082	3.7433	10938.97	4753.897	1300.692	1559.281	4090.097	833	11208.1	284.873	0.9147	112310.1	139703.1	11492.97	128210.1	136003.5	3.6442	
12.4532	122.5058	86.7694	9.6374	153.5969		6.2167	2.5292	3.0368	11847.23	5153.044	1340.336	2001.362	4117.484	833	11320.43	283.2796	0.99	115975.8	143479.5	11603.71	131875.8	139744.3	2.9578	
10.5658	74.0484	87.6609	7.2151	153.2235		4.078	1.8836	2.0846	12326.18	5616.436	1386.362	2301.088	3613.854	1006.446	9941.966	281.2682	0.9384	121940.7	148036.9	10196.23	137840.7	144754.8	2.0384	
1																								

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	10 lb Mandate, Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	CS of ethanol Blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters	Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	CS of ethanol blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters
11.9816	90.1382	88.1987	8.2399	139.0685		63799.36	63772.58	42385.08	8242.817	104952.1	133.2387	598.1191	-4305.85	1870075	366376.2	38850.06		68081.95	65197.48	42749.94	8739.545	104683.1	42.092	413.9888	-4137.32	1868251	368386.8	39115.59
11.3318	150.5606	87.4925	7.4931	148.4865		78276.48	59371.83	41242	11221.05	151039.1	3791.66	51203.72	-5285.77	1727245	546008.6	55910.76		78276.48	59371.83	41242	11221.05	151039.1	3791.66	51203.72	-5285.77	1727245	546008.6	55910.76
12.0268	114.3755	86.83	7.5139	144.6929		70654.87	61588.89	41821.03	9939.937	125464.3	375.5943	229.6506	-4761.01	1806447	443590.3	46442.31		70654.87	61588.89	41821.03	9939.937	125464.3	375.5943	229.6506	-4761.01	1806447	443590.3	46442.31
11.9731	118.1493	87.8161	8.0792	152.828		74144.42	61961.98	41917.83	12254.89	126671.8	996.323	229.5687	-5400.96	1803834	450253.7	46890.69		74144.42	61961.98	41917.83	12254.89	126671.8	996.323	229.5687	-5400.96	1803834	450253.7	46890.69
10.9321	110.0465	87.9316	9.2023	153.7706		68078.17	64373.76	42539.32	12446.32	120972.1	1352.525	229.3712	-5096.22	1821383	427501.5	44780.76		68078.17	64373.76	42539.32	12446.32	120972.1	1352.525	229.3712	-5096.22	1821383	427501.5	44780.76
11.5695	91.8763	87.462	7.7021	148.4997		63920.47	65576.5	42846.58	13904.02	106612.5	248.1678	372.5282	-4439.1	1865798	372425.7	39465.39		63920.47	65576.5	42846.58	13904.02	106612.5	248.1678	372.5282	-4439.1	1865798	372425.7	39465.39
10.7416	116.1953	87.1054	6.4937	155.382		53871.32	11548.09	44347.61	13013.64	127835.9	6374.329	229.7017	-5011.1	1799395	453451.8	47321.58		53871.32	11548.09	44347.61	13013.64	127835.9	6374.329	229.7017	-5011.1	1799395	453451.8	47321.58
12.882	149.853	87.1906	9.2539	145.3436		76019.46	58757.57	41080.4	7742.618	151265.3	3319.488	230.7772	-5074.32	1726062	545917	55993.44		76019.46	58757.57	41080.4	7742.618	151265.3	3319.488	230.7772	-5074.32	1726062	545917	55993.44
10.4393	125.9952	88.2067	7.4742	142.4299		74650.63	59867.4	41372	6685.276	132861.6	795.0886	229.8574	-5375.34	1784228	474157	49181.88		74650.63	59867.4	41372	6685.276	132861.6	795.0886	229.8574	-5375.34	1784228	474157	49181.88
10.4292	116.4322	87.8941	10.5202	140.5909		77678.97	56608.41	40510.77	9982.978	127597.8	524.277	728.1254	-4227.49	1796750	451232	47322.54		77678.97	56608.41	40510.77	9982.978	127597.8	524.277	728.1254	-4227.49	1796750	451232	47322.54
11.3933	162.7228	86.6594	8.542	150.5787		58391.13	67903.23	43436.16	5621.649	159152.4	10329.62	231.0771	-5313.7	1702273	579369.8	58912.68		58391.13	67903.23	43436.16	5621.649	159152.4	10329.62	231.0771	-5313.7	1702273	579369.8	58912.68
11.7718	125.0085	86.9932	6.1261	142.5541		79679.47	57748.4	40813.74	14899.05	134597.1	281.7206	337.654	-4456.65	1776451	477941.1	49824.24		79679.47	57748.4	40813.74	14899.05	134597.1	281.7206	337.654	-4456.65	1776451	477941.1	49824.24
11.8615	121.4295	87.4704	9.1433	152.3173		77036.53	60045.89	41418.74	15674.69	131066.2	454.7758	229.9073	-4785.35	1788720	465132.9	48517.26		77036.53	60045.89	41418.74	15674.69	131066.2	454.7758	229.9073	-4785.35	1788720	465132.9	48517.26
11.9915	101.8192	86.3179	6.5872	158.1996		67423.13	65850.5	42916.34	14385.62	113218	878.5734	228.9519	-5412.27	1846746	399074.3	41909.22		67423.13	65850.5	42916.34	14385.62	113218	878.5734	228.9519	-5412.27	1846746	399074.3	41909.22
11.6593	105.6823	87.648	7.7307	138.1598		63626.67	63640.72	42351.1	5885.917	118526.4	361.063	229.3491	-4647.05	1828386	417000.8	43874.46		63626.67	63640.72	42351.1	5885.917	118526.4	361.063	229.3491	-4647.05	1828386	417000.8	43874.46
11.8301	160.2008	87.2729	8.2844	148.0593		82255.12	57142.18	40652.86	8642.027	157232.1	3680.652	230.9338	-5519.24	1708667	572540.8	58201.95		82255.12	57142.18	40652.86	8642.027	157232.1	3680.652	230.9338	-5519.24	1708667	572540.8	58201.95
11.6039	129.0222	88.3414	9.8485	145.7926		74192.84	59912.14	41383.72	8774.311	132623.7	127.9766	229.9329	-4993.98	1784214	471866.2	49092.84		74192.84	59912.14	41383.72	8774.311	132623.7	127.9766	229.9329	-4993.98	1784214	471866.2	49092.84
11.5947	174.6319	88.29	8.658	148.9677		66136.71	64628.32	42604.5	7454.789	166461.8	9914.42	231.3857	-5407.48	1860120	610477.3	61618.86		66136.71	64628.32	42604.5	7454.789	166461.8	9914.42	231.3857	-5407.48	1860120	610477.3	61618.86
11.6927	147.0392	86.3737	9.7006	148.65		83185.27	55830.05	40302.8	8301.882	148678.4	11942.325	230.6109	-5207.58	1734504	536633.1	55036.26		83185.27	55830.05	40302.8	8301.882	148678.4	11942.325	230.6109	-5207.58	1734504	536633.1	55036.26
11.6634	121.1026	87.5927	7.1722	147.0057		69325.21	63109.49	42214.44	7712.074	128869.8	2132.043	229.6597	-5444.24	1798961	458990.8	47703.18		69325.21	63109.49	42214.44	7712.074	128869.8	2132.043	229.6597	-5444.24	1798961	458990.8	47703.18
12.4464	155.3477	86.9304	7.1422	137.7433		83575.02	54335.83	39900.99	4208.185	153575.9	1101.756	230.7724	-5500.23	1719891	557401.9	56848.86		83575.02	54335.83	39900.99	4208.185	153575.9	1101.756	230.7724	-5500.23	1719891	557401.9	56848.86
11.6437	138.7649	87.4177	9.3447	155.2553		56476.44	69566.41	43853.84	6946.106	142195.7	8408.727	230.2703	-5433.39	1750755	511157.7	52636.95		56476.44	69566.41	43853.84	6946.106	142195.7	8408.727	230.2703	-5433.39	1750755	511157.7	52636.95
10.6236	119.3461	86.3556	7.9576	149.8035		73232.77	61180.85	41714.95	13045.56	129408	903.222	229.8296	-4785.95	1793973	458756.5	47903.52		73232.77	61180.85	41714.95	13045.56	129408	903.222	229.8296	-4785.95	1793973	458756.5	47903.52
11.3716	183.5952	88.5674	10.1209	155.0799		65561.91	65616.69	42856.82	10503.6	172390.9	11365.96	231.6879	-5301.89	1681180	635042.1	63813.06		65561.91	65616.69	42856.82	10503.6	172390.9	11365.96	231.6879	-5301.89	1681180	635042.1	63813.06
11.3678	154.3794	87.6199	6.7339	155.129		66691.93	66012.56	42957.55	14508.97	153604.5	8221.08	230.8256	-5302.34	1719345	556520.3	56859.99		66691.93	66012.56	42957.55	14508.97	153604.5	8221.08	230.8256	-5302.34	1719345	556520.3	56859.99
10.4644	96.1184	87.5851	6.8274	155.1956		57482.68	69967.1	43954.02	15422.49	109613.3	2383.683	228.8863	-4882.98	1857450	384274.7	40575.21		57482.68	69967.1	43954.02	15422.49	109613.3	2383.683	228.8863	-4882.98	1857450	384274.7	40575.21
11.4245	138.0901	85.9638	8.595	140.4433		78773.95	56071.12	40367.31	8356.628	144612.1	423.1282	239.5335	-4520.79	1745507	516977.5	53535.50		78773.95	56071.12	40367.31	8356.628	144612.1	423.1282	239.5335	-4520.79	1745507	516977.5	53535.50
11.4449	83.0991	86.9952	8.9887	145.8508		69671.65	61758.24	41864.99	13713.39	98264.29	136.5036	1089.881	-4054.38	1889762	341994.8	36737.43		69671.65	61758.24	41864.99	13713.39	98264.29	136.5036	1089.881	-4054.38	1889762	341994.8	36737.43
11.9303	93.1233	86.7532	9.2162	151.181		64842.6	64859.22	42663.55	13052.16	107733.5	180.8629	401.5941	-4420.87	1862017	376570.9	39880.38		64842.6	64859.22	42663.55	13052.16	107733.5	180.8629	401.5941	-4420.87	1862017	376570.9	39880.38
11.5057	177.8798	87.2212	9.9866	157.3325		50377.18	72711.71	44635.63	6466.9	91405.95	884.5807	227.9399	-5516	1917560	318586.2	33835.2		50377.18	72711.71	44635.63	6466.9	91405.95	884.5807	227.9399	-5516	1917560	318586.2	33835.2
10.4863	102.1424	87.8768	9.5716	155.6328		63552.17	64641.78	42607.94	9459.537	115783.6	572.3178	242.5004	-4522.13	1836905	406421	42860.04		63552.17	64641.78	42607.94	9459.537	115783.6	572.3178	242.5004	-4522.13	1836905	406421	42860.04
11.9219	106.9806	86.5398	7.8499	159.6828		60902.85	68540.34	43596.52	10727.21	117149.2	3284.996	229.1004	-5627.14	1834432	414355	43365.66		60902.85	68540.34	43596.52	10727.21	117149.2	3284.996	229.1004	-5627.14	1834432	414355	43365.66
11.8378	137.3014	87.7599	7.5386	156.7828		59793.33	69407.06	43723.74	10852.12	140838.9	7988.823	230.1864	-5524.79	1795507	506147.1	52134.51		59793.33	69407.06	43723.74	10852.12	140838.9	7988.823	230.1864	-5524.79	1795507	506147.1	52134.51
10.8985	82.915	87.9279	9.4036	152.6842		59240.42	68027.97	43467.59	14081	98277.28	349.9539	395.9728	-4426.06	1892789	341886.4	36379.2		59240.42	68027.97	43467.59	14081	98277.28	349.9539	395.9728	-4426.06	1892789	341886.4	36379

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	10 lb Mandate, Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	CS of ethanol Blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters	Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	CS of ethanol Blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters					
11.6343	90.4226	87.2677	7.7602	158.6643	62796.18	67828.11	43417.22	19208.19	104806.2	4755.59	187279.1	366199.7	38796	62796.18	67828.11	43417.22	19208.19	104806.2	4755.59	187279.1	366199.7	38796	62796.18	67828.11	43417.22	19208.19	104806.2	4755.59	187279.1	366199.7	38796		
10.7477	168.5108	86.6556	8.0567	146.3281	65813.52	63852.4	42405.59	7411.164	164028.9	8734.426	231.386	-5009.67	1686568	59726.6	60718.92	65813.52	63852.4	42405.59	7411.164	164028.9	8734.426	231.386	-5009.67	1686568	59726.6	60718.92	65813.52	63852.4	42405.59	7411.164	164028.9	8734.426	231.386
11.0264	121.2128	86.914	6.6038	147.5101	63646.24	65625.77	42859.13	8308.165	129837.7	3619.385	229.7702	-5144.72	1793316	46160.4	48062.52	63646.24	65625.77	42859.13	8308.165	129837.7	3619.385	229.7702	-5144.72	1793316	46160.4	48062.52	63646.24	65625.77	42859.13	8308.165	129837.7	3619.385	
11.2843	176.3616	87.6508	9.1411	147.5998	66455.97	63786.19	42388.58	6541.409	168090.8	9447.387	231.5022	-5261.36	1674784	616466.8	62221.47	66455.97	63786.19	42388.58	6541.409	168090.8	9447.387	231.5022	-5261.36	1674784	616466.8	62221.47	66455.97	63786.19	42388.58	6541.409	168090.8	9447.387	
12.2108	101.7231	86.7903	9.6164	147.5533	74521.01	59601.99	41302.42	13632.77	115246.5	81.0439	724.09	-4233.45	1836252	404581.6	42661.29	74521.01	59601.99	41302.42	13632.77	115246.5	81.0439	724.09	-4233.45	1836252	404581.6	42661.29	74521.01	59601.99	41302.42	13632.77	115246.5	81.0439	
12.3099	117.2597	86.9026	8.2589	157.3413	63968.29	66972.76	43155.55	12193.71	126318.1	3756.858	229.579	-5278.41	1804721	448489.4	46758.72	63968.29	66972.76	43155.55	12193.71	126318.1	3756.858	229.579	-5278.41	1804721	448489.4	46758.72	63968.29	66972.76	43155.55	12193.71	126318.1	3756.858	
11.8761	100.5863	86.9322	5.2771	146.9973	65918.02	65070.84	42717.61	11661.28	113341	275.38	229.0458	-4955.67	1845568	398354.3	41955.33	65918.02	65070.84	42717.61	11661.28	113341	275.38	229.0458	-4955.67	1845568	398354.3	41955.33	65918.02	65070.84	42717.61	11661.28	113341	275.38	
11.7119	101.2689	87.6887	7.7385	152.7771	52142.46	71725.54	44391.62	6453.793	112601.3	4234.708	228.9128	-5468.97	1848821	396904.2	41681.85	52142.46	71725.54	44391.62	6453.793	112601.3	4234.708	228.9128	-5468.97	1848821	396904.2	41681.85	52142.46	71725.54	44391.62	6453.793	112601.3	4234.708	
11.2131	165.1776	87.2348	9.2489	143.994	75885.9	58522.04	41018.29	5975.104	161036.7	5014.788	231.1846	-5237.19	1696301	586758.8	59610.69	75885.9	58522.04	41018.29	5975.104	161036.7	5014.788	231.1846	-5237.19	1696301	586758.8	59610.69	75885.9	58522.04	41018.29	5975.104	161036.7	5014.788	
11.7586	84.3019	85.746	6.2075	159.1632	55777.89	70964.2	42402.55	11019.74	97536.22	1009.576	228.2268	-5467.3	1897494	340921.7	36105.72	55777.89	70964.2	42402.55	11019.74	97536.22	1009.576	228.2268	-5467.3	1897494	340921.7	36105.72	55777.89	70964.2	42402.55	11019.74	97536.22	1009.576	
11.121	184.975	86.4991	6.0097	149.6921	69110.1	63780.72	42387.18	11426.65	173680.8	10289.04	231.7821	-5183.95	1657589	639801	64291.65	69110.1	63780.72	42387.18	11426.65	173680.8	10289.04	231.7821	-5183.95	1657589	639801	64291.65	69110.1	63780.72	42387.18	11426.65	173680.8	10289.04	
11.2957	127.4276	87.7888	7.0462	154.9692	47372.42	74443.56	45061.76	9003.307	134274.3	9439.229	229.946	-5270.79	1779569	479284.5	49704.99	47372.42	74443.56	45061.76	9003.307	134274.3	9439.229	229.946	-5270.79	1779569	479284.5	49704.99	47372.42	74443.56	45061.76	9003.307	134274.3	9439.229	
12.1795	116.186	87.5457	6.9431	157.1553	71567.36	64234.08	42503.53	13726.85	124289.8	9057.614	229.3992	-5687.36	1811925	442021.8	46008.24	71567.36	64234.08	42503.53	13726.85	124289.8	9057.614	229.3992	-5687.36	1811925	442021.8	46008.24	71567.36	64234.08	42503.53	13726.85	124289.8	9057.614	
10.3953	121.4083	87.8331	8.0214	155.0915	46542.64	74591.16	45097.94	10840.68	130865.2	8201.632	229.8839	-4847.97	1789480	464568.3	48442.53	46542.64	74591.16	45097.94	10840.68	130865.2	8201.632	229.8839	-4847.97	1789480	464568.3	48442.53	46542.64	74591.16	45097.94	10840.68	130865.2	8201.632	
10.28	110.3833	89.2951	6.5152	141.5627	78197.66	58949.57	41130.96	18219.87	122653	178.1642	624.8972	-4286.07	1812968	432399.6	45402.45	78197.66	58949.57	41130.96	18219.87	122653	178.1642	624.8972	-4286.07	1812968	432399.6	45402.45	78197.66	58949.57	41130.96	18219.87	122653	178.1642	
10.7088	141.2561	89.0702	9.9183	144.7866	70520.72	61604	41824.86	9034.848	145426.4	3910.04	230.527	-4993.58	1744039	522140.4	53832.63	70520.72	61604	41824.86	9034.848	145426.4	3910.04	230.527	-4993.58	1744039	522140.4	53832.63	70520.72	61604	41824.86	9034.848	145426.4	3910.04	
11.4709	99.8539	86.9225	9.132	140.8677	66374.76	62103.43	41954.48	7522.456	113686.1	259.1855	514.0372	-4352.06	1842201	398689.9	42082.53	66374.76	62103.43	41954.48	7522.456	113686.1	259.1855	514.0372	-4352.06	1842201	398689.9	42082.53	66374.76	62103.43	41954.48	7522.456	113686.1	259.1855	
12.0553	120.9676	87.0598	7.5877	150.3351	74455.15	61135.85	41703.24	10270.38	129004.1	901.6373	229.6886	-5349.08	1796225	459237.7	47768.37	74455.15	61135.85	41703.24	10270.38	129004.1	901.6373	229.6886	-5349.08	1796225	459237.7	47768.37	74455.15	61135.85	41703.24	10270.38	129004.1	901.6373	
11.0493	72.4201	87.3703	9.6139	153.9198	62605.16	66463.19	43072	16945.58	87933.97	211.6324	896.4096	-4153.11	1924425	304543.8	32550.48	62605.16	66463.19	43072	16945.58	87933.97	211.6324	896.4096	-4153.11	1924425	304543.8	32550.48	62605.16	66463.19	43072	16945.58	87933.97	211.6324	
11.089	125.8654	87.8168	7.9306	148.6369	66632.13	64436.12	42555.3	9352.069	133371.2	3579.790	229.9266	-5173.72	1782217	475409.1	49369.5	66632.13	64436.12	42555.3	9352.069	133371.2	3579.790	229.9266	-5173.72	1782217	475409.1	49369.5	66632.13	64436.12	42555.3	9352.069	133371.2	3579.790	
12.0257	102.9579	87.1929	6.951	158.6922	56758.76	70664.07	44127.86	10681.36	113650.7	3919.528	228.9321	-5616.36	1845708	401252.3	42069.81	56758.76	70664.07	44127.86	10681.36	113650.7	3919.528	228.9321	-5616.36	1845708	401252.3	42069.81	56758.76	70664.07	44127.86	10681.36	113650.7	3919.528	
11.9823	163.0728	86.2341	7.5338	133.6327	86658.38	51296.1	39072.59	6956.088	162033.3	358.5845	231.4147	-4571.47	1691614	587277.4	59979.57	86658.38	51296.1	39072.59	6956.088	162033.3	358.5845	231.4147	-4571.47	1691614	587277.4	59979.57	86658.38	51296.1	39072.59	6956.088	162033.3	358.5845	
10.5061	126.8399	86.7314	8.2938	152.8555	45660.63	74316.96	45030.71	6967.348	134951.7	8828.298	230.0626	-4899.59	1776680	480567.9	49954.62	45660.63	74316.96	45030.71	6967.348	134951.7	8828.298	230.0626	-4899.59	1776680	480567.9	49954.62	45660.63	74316.96	45030.71	6967.348	134951.7	8828.298	
11.1391	115.0163	85.2128	7.9415	152.0606	64184.51	65226.08	42757.24	7593.692	124747	2532.778	229.5239	-5198.32	1809556	442205.2	46176.78	64184.51	65226.08	42757.24	7593.692	124747	2532.778	229.5239	-5198.32	1809556	442205.2	46176.78	64184.51	65226.08	42757.24	7593.692	124747	2532.778	
10.5518	122.8802	88.0708	8.2965	150.3818	67929.27	64167.98	42486.58	12841.92	131798.3	3000.004	229.9102	-4924.34	1786681	468429.5	48787.56	67929.27	64167.98	42486.58	12841.92	131798.3	3000.004	229.9102	-4924.34	1786681	468429.5	48787.56	67929.27	64167.98	42486.58	12841.92	131798.3	3000.004	
11.4444	138.9707	87.0291	5.8804	155.4877	75456.5	62502.76	42057.82	17348.27	142500	4226.577	230.2959	-5385.3	1754021	512164.6	52749.84	75456.5	62502.76	42057.82	17348.27	142500	4226.577	230.2959	-5385.3	1754021	512164.6	52749.84	75456.5	62502.76	42057.82	17348.27	142500	4226.577	
11.3782	107.7218	89.012	7.2263	144.5491	71312.21	63079.34	42206.67	18876.23	120496.7	374.6651	229.46	-4557.71	1821915	424175.5	44604.27	71312.21	63079.34	42206.67	18876.23	120496.7	374.6651	229.46	-4557.71	1821915	424175.5	44604.27	71312.21	63079.34	42206.67	18876.23	120496.7	374.6651	
12.3424	122.8783	86.7395	7.3934	148.0623	74345.31	59332.99	41231.8	5599.283	134576.2	754.5699	229.9559	-5288.19	1778654	480528.5	49816.29	74345.31	59332.99	41231.8	5599.283	134576.2	754.5699	229.9559	-5288.19	1778654	480528.5	49816.29	74345.31	59332.99	41231.8	5599.283	134576.2	754.5699	
11.0961	134.7108	86.2339	8.0947	153.4775	66461.65	65025.2	42705.96	11068.4	140045.7	5088.207	230.2337	-5176.26	1761251																				

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres	Corn yield draws (bushels per harvested acres)	10 lb Mandate, Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	CS of ethanol Blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters	Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	CS of ethanol blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters
11.2933	113.2022	86.4696	7.5349	153.1932	68676.19	64071.88	42461.93	11006.4	123073.7	1596.715	229.4317	-5270.72	1815011	436031	45558.27	686676.19	64071.88	42461.93	11006.4	123073.7	1596.715	229.4317	-5270.72	1815011	436031	45558.27		
11.4382	106.458	88.5781	6.8812	151.0606	53104.45	70997.51	44210.84	6435.527	117326.1	4580.055	229.154	-5339.77	1833464	414378	43430.85	53104.45	70997.51	44210.84	6435.527	117326.1	4580.055	229.154	-5339.77	1833464	414378	43430.85		
12.2126	166.8987	86.2078	7.4756	150.0856	64612.42	65197.34	42749.91	5047.445	160481.6	9647.113	231.0325	-5698.59	1699118	587055.0	59405.58	64612.42	65197.34	42749.91	5047.445	160481.6	9647.113	231.0325	-5698.59	1699118	587055.0	59405.58		
11.9133	85.8385	86.6453	8.4438	154.3026	59141.56	68200.79	43511.11	14136.32	101066.9	161.1853	293.3628	-4490.35	1884234	352041.3	37411.11	59141.56	68200.79	43511.11	14136.32	101066.9	161.1853	293.3628	-4490.35	1884234	352041.3	37411.11		
12.6804	118.5853	87.2582	9.0685	154.9708	76086.55	60956.28	41656.48	14401.92	127878.4	467.1308	229.6887	-5103.9	1799440	453918.3	47335.89	76086.55	60956.28	41656.48	14401.92	127878.4	467.1308	229.6887	-5103.9	1799440	453918.3	47335.89		
10.7943	125.2739	87.7426	9.2717	144.1206	76330.67	58564.04	41029.37	7943.876	155147.7	3841.206	230.9679	-5032.63	1713949	561466	57430.8	76330.67	58564.04	41029.37	7943.876	155147.7	3841.206	230.9679	-5032.63	1713949	561466	57430.8		
11.9293	123.8115	87.7352	8.85	144.1906	75393.28	59175.67	41190.45	11380.57	133525.2	310.1892	230.0669	-4589.63	1780551	473953	49426.74	75393.28	59175.67	41190.45	11380.57	133525.2	310.1892	230.0669	-4589.63	1780551	473953	49426.74		
10.7454	138.9437	86.8034	7.9245	159.4719	52268.2	72361.61	44549.12	13060.57	143681.8	9492.147	230.4418	-5011.02	1749523	515281.4	53187.09	52268.2	72361.61	44549.12	13060.57	143681.8	9492.147	230.4418	-5011.02	1749523	515281.4	53187.09		
10.8798	140.2426	86.1006	9.3902	136.5639	82846.19	52871.44	39503.8	7367.012	146046.5	497.3634	554.9936	-4320.38	1739402	522838.7	54061.59	82846.19	52871.44	39503.8	7367.012	146046.5	497.3634	554.9936	-4320.38	1739402	522838.7	54061.59		
12.3091	139.058	86.409	9.1468	147.1017	79186.79	57471.11	40740.22	5925.94	142260.7	1053.66	230.2622	-5478.94	1754969	511611.4	52660.8	79186.79	57471.11	40740.22	5925.94	142260.7	1053.66	230.2622	-5478.94	1754969	511611.4	52660.8		
11.3298	100.9082	86.3552	6.958	157.5416	67984.41	65371.97	42794.45	18498.84	113788.6	602.256	229.0793	-4890.21	1844017	399863.4	42120.69	67984.41	65371.97	42794.45	18498.84	113788.6	602.256	229.0793	-4890.21	1844017	399863.4	42120.69		
12.3092	109.0663	87.3831	9.2226	143.6587	78599.8	57749.52	40814.04	4443.959	175675.5	7822.054	231.7065	-5742.07	1653017	652292	65029.41	78599.8	57749.52	40814.04	4443.959	175675.5	7822.054	231.7065	-5742.07	1653017	652292	65029.41		
10.8043	116.195	86.8072	8.0045	139.5702	74060.51	58210.03	40935.9	9413.269	127478.6	459.0351	530.8816	-4338.97	1798034	450697	47188.02	74060.51	58210.03	40935.9	9413.269	127478.6	459.0351	530.8816	-4338.97	1798034	450697	47188.02		
10.156	117.3207	86.8349	9.0108	156.6034	72301.79	62751.78	42122.16	18121.89	127927.3	1516.254	229.7714	-4735.72	1798571	452918.5	47354.97	72301.79	62751.78	42122.16	18121.89	127927.3	1516.254	229.7714	-4735.72	1798571	452918.5	47354.97		
11.0742	99.1813	85.4027	7.4883	136.1248	76362.26	56316.68	40432.93	8858.616	112868.8	198.7424	1278.048	-3959.92	1841683	395861.8	41780.43	76362.26	56316.68	40432.93	8858.616	112868.8	198.7424	1278.048	-3959.92	1841683	395861.8	41780.43		
11.297	140.7772	88.6503	6.1767	142.7664	65279.63	64563.06	42587.8	7664.917	147253.3	6196.51	230.5423	-5269.87	1738960	530661.8	54508.38	65279.63	64563.06	42587.8	7664.917	147253.3	6196.51	230.5423	-5269.87	1738960	530661.8	54508.38		
12.2343	100.9024	87.2922	7.0701	155.146	66790.97	65957.52	42943.56	12180.79	112385.2	780.7942	228.9102	-5431.43	1849451	395993.7	41602.35	66790.97	65957.52	42943.56	12180.79	112385.2	780.7942	228.9102	-5431.43	1849451	395993.7	41602.35		
12.2034	156.9471	86.8355	5.536	154.7608	79465.59	60810.34	41618.44	10504.09	153971.8	5587.091	230.7392	-5695.09	1791919	560031.8	56995.14	79465.59	60810.34	41618.44	10504.09	153971.8	5587.091	230.7392	-5695.09	1791919	560031.8	56995.14		
12.0967	91.873	87.4758	7.7847	137.9774	75992.52	57700.67	40801.1	11899.86	106341.5	-8.0539	1310.323	-3948.39	1862657	31666.8	39363.63	75992.52	57700.67	40801.1	11899.86	106341.5	-8.0539	1310.323	-3948.39	1862657	31666.8	39363.63		
11.7437	121.4131	86.8254	9.2906	133.9397	79609.51	54038.32	39820.57	6786.949	131552.8	160.9818	858.8936	-4156.56	1783641	466439.9	48696.93	79609.51	54038.32	39820.57	6786.949	131552.8	160.9818	858.8936	-4156.56	1783641	466439.9	48696.93		
11.7756	104.4066	88.3906	7.5374	155.8466	65312.86	68712.25	43136.93	12889.79	115182.1	1797.187	229.0246	-5498.59	1840601	406712.8	42637.44	65312.86	68712.25	43136.93	12889.79	115182.1	1797.187	229.0246	-5498.59	1840601	406712.8	42637.44		
11.4109	105.4254	87.1832	7.9187	156.1463	53141.16	71588.28	44357.58	8899.708	116494.7	4750.641	229.1185	-5327.05	1836101	411198.1	43212.39	53141.16	71588.28	44357.58	8899.708	116494.7	4750.641	229.1185	-5327.05	1836101	411198.1	43212.39		
10.8814	100.4172	88.7359	7.5543	156.2438	62504.59	68100.09	43485.76	16836.67	112878.3	2024.799	229.0066	-5078.57	1847266	396933.3	41783.61	62504.59	68100.09	43485.76	16836.67	112878.3	2024.799	229.0066	-5078.57	1847266	396933.3	41783.61		
9.8937	93.9551	87.7913	7.7603	154.5576	46933.32	74396.63	45050.25	12851.48	89468.03	1247.854	227.989	-4617.09	1922684	31061.8	33118.11	46933.32	74396.63	45050.25	12851.48	89468.03	1247.854	227.989	-4617.09	1922684	31061.8	33118.11		
11.8654	96.6756	86.7751	10.7239	136.4308	77574.69	54958.1	40068.74	7858.706	110591	-9.0784	1550.901	-3840.15	1848061	387451.8	40937.73	77574.69	54958.1	40068.74	7858.706	110591	-9.0784	1550.901	-3840.15	1848061	387451.8	40937.73		
11.8378	111.8328	88.5572	9.3857	150.7135	54594.29	70027.97	43969.22	11098.1	123859.1	4483.461	229.6123	-4586.79	1811230	436968.2	45849.24	54594.29	70027.97	43969.22	11098.1	123859.1	4483.461	229.6123	-4586.79	1811230	436968.2	45849.24		
11.8763	82.4792	86.7619	8.3486	145.2447	66915.28	63049.78	42199.05	12472.41	97714.41	87.2673	934.0143	-4130.53	1892179	339958.9	36170.91	66915.28	63049.78	42199.05	12472.41	97714.41	87.2673	934.0143	-4130.53	1892179	339958.9	36170.91		
11.8356	96.1248	86.9251	8.784	150.5295	61486.41	66482.69	43076.95	8729.725	109501	466.8484	228.8732	-4930.31	1857891	383968.6	40533.87	61486.41	66482.69	43076.95	8729.725	109501	466.8484	228.8732	-4930.31	1857891	383968.6	40533.87		
10.4918	132.8939	86.8566	10.2745	143.7307	75323.17	58092.94	40904.94	7763.097	140207.3	925.1919	230.3569	-4692.7	1759719	500309.7	51900.78	75323.17	58092.94	40904.94	7763.097	140207.3	925.1919	230.3569	-4692.7	1759719	500309.7	51900.78		
10.3462	110.6701	87.3567	7.0753	150.3018	66128.09	65131.55	42733.11	13847.57	122233	1825.069	229.4859	-4825.93	1816863	431498	45246.63	66128.09	65131.55	42733.11	13847.57	122233	1825.069	229.4859	-4825.93	1816863	431498	45246.63		
11.3295	82.4492	87.2375	7.6233	150.9879	54666.09	70086	43963.71	10540.27	97550.27	370.6241	228.3573	-4686.55	1896294	339473.3	36110.49	54666.09	70086	43963.71	10540.27	97550.27	370.6241	228.3573	-4686.55	1896294	339473.3	36110.49		
12.6134	127.7899	87.9744	9.9689	154.8363	64235.54	66811.95	43160.41	8042.457	132657.4	5463.396	229.7315	-5890.34	1785899	475287	49105.56	64235.54	66811.95	43160.41	8042.457	132657.4	5463.396	229.7315	-5890.34	1785899	475287	49105.56		
10.3982	80.3561	86.2546	8.618	152.1371	65493	64788.97	42645.59	16190.01	95710.76	382.9192	841.5621	-4177.97	1899114	332650	35429.97	65493	64788.97	42645.59	16190.01	95710.76	382.9192	841.5621	-4177.97	1899114	332650	35429.97		
12.8694	131.1894	87.8378	7.7504	140.2396	77217.85	57932.17	40862.41	7540.264	137996.7	371.6266	230.1833	-4989.18	1767285	492784.1	51081.93	77217.85	57932.17	40862.41	7540.264	137996.7	371.6266	230.1833	-4989.18	1767285	492784.1	51081.93		
11.7944	141.4983	87.6655	7.6139	155.9792	71098.62	64001.61	42443.89	13421.21	143934.3	5508.274	230.3323	-5504.02	1749804	518402.9	53279.31	71098.62	64001.61	42443.89	13421.21	143934.3	5508							

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	10 lb Mandate, Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	CS of ethanol Blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters	Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	CS of ethanol blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters									
11.9293	107.2105	88.1177	9.709	152.6702	67437.21	64320.17	42525.59	9298.599	118039.6	821.5471	229.193	-5308.14	1831127	416990.5	43694.79	67437.21	64320.17	42525.59	9298.599	118039.6	821.5471	229.193	-5308.14	1831127	416990.5	43694.79	67437.21	64320.17	42525.59	9298.599	118039.6	821.5471	229.193	-5308.14	1831127	416990.5	43694.79
10.6706	136.6218	88.0743	9.6398	145.3608	61537.32	65572.07	42845.45	9591.344	142095.1	5538.246	230.3767	-4976.04	1754408	508856.1	52598.79	61537.32	65572.07	42845.45	9591.344	142095.1	5538.246	230.3767	-4976.04	1754408	508856.1	52598.79	61537.32	65572.07	42845.45	9591.344	142095.1	5538.246	230.3767	-4976.04	1754408	508856.1	52598.79
10.8119	126.5006	87.3691	7.3254	133.1864	78921	55317.84	40165.45	9073.967	135649	468.9871	600.6274	-4296.44	1771831	482143	50213.79	76342.08	56508.57	40484.14	8514.553	135366.4	340.9588	424.4665	-4177.56	1769885	484189.3	50492.04	76342.08	56508.57	40484.14	8514.553	135366.4	340.9588	424.4665	-4177.56	1769885	484189.3	50492.04
12.7254	106.5231	87.9544	8.3163	158.9824	68407.52	65543.11	42388.08	10863.21	115847.9	1301.648	228.9737	-5909.38	1839187	410401.9	42883.89	68407.52	65543.11	42388.08	10863.21	115847.9	1301.648	228.9737	-5909.38	1839187	410401.9	42883.89	68407.52	65543.11	42388.08	10863.21	115847.9	1301.648	228.9737	-5909.38	1839187	410401.9	42883.89
13.1825	84.3063	88.1761	10.0858	149.818	62005.27	66919.56	43187.66	11264.41	99585.8	12.1681	420.2868	-4410.97	1883935	346664.8	36864.15	58406.7	67749.97	43397.51	11593.09	99435.6	-49.2886	324.8234	-4314.39	1887421	347744.2	37005.66	62005.27	66919.56	43187.66	11264.41	99585.8	12.1681	420.2868	-4410.97	1883935	346664.8	36864.15
9.9532	100.2648	86.6478	8.1179	159.315	46929	74642.62	45110.55	14954.15	114109.2	5139.578	229.1608	-4548.17	1842394	400206.8	42339.75	46929	74642.62	45110.55	14954.15	114109.2	5139.578	229.1608	-4548.17	1842394	400206.8	42339.75	46929	74642.62	45110.55	14954.15	114109.2	5139.578	229.1608	-4548.17	1842394	400206.8	42339.75
11.7961	134.0923	87.3408	8.9315	153.4481	71982.72	62475.28	42050.72	10247.53	138845.1	3560.77	230.1226	-5411.44	1765506	497779.1	51299.96	71982.72	62475.28	42050.72	10247.53	138845.1	3560.77	230.1226	-5411.44	1765506	497779.1	51299.96	71982.72	62475.28	42050.72	10247.53	138845.1	3560.77	230.1226	-5411.44	1765506	497779.1	51299.96
12.5367	126.065	87.1769	6.5173	155.4775	73437.77	63150.24	42224.95	11601.67	131464.5	2831.187	229.686	-5854.42	1789580	470471.3	48663.54	73437.77	63150.24	42224.95	11601.67	131464.5	2831.187	229.686	-5854.42	1789580	470471.3	48663.54	73437.77	63150.24	42224.95	11601.67	131464.5	2831.187	229.686	-5854.42	1789580	470471.3	48663.54
12.0324	109.9784	85.9206	7.2136	150.3333	69013.47	63273.32	42256.65	9738.603	120778.7	641.4195	229.352	-5146.09	1822091	426912.9	44709.21	69013.47	63273.32	42256.65	9738.603	120778.7	641.4195	229.352	-5146.09	1822091	426912.9	44709.21	69013.47	63273.32	42256.65	9738.603	120778.7	641.4195	229.352	-5146.09	1822091	426912.9	44709.21
11.546	148.259	86.4361	7.2693	154.7239	65778.37	65718.42	42882.72	10645.71	149098.6	7354.975	230.5974	-5386.67	1733489	538635.2	55192.08	65778.37	65718.42	42882.72	10645.71	149098.6	7354.975	230.5974	-5386.67	1733489	538635.2	55192.08	65778.37	65718.42	42882.72	10645.71	149098.6	7354.975	230.5974	-5386.67	1733489	538635.2	55192.08
10.9051	137.9287	87.8007	8.6531	154.2855	70956.14	63388.33	42286.27	14443.82	142703.8	4534.122	230.3781	-5086.2	1752741	511717	52824.57	70956.14	63388.33	42286.27	14443.82	142703.8	4534.122	230.3781	-5086.2	1752741	511717	52824.57	70956.14	63388.33	42286.27	14443.82	142703.8	4534.122	230.3781	-5086.2	1752741	511717	52824.57
11.1768	73.8993	86.7781	7.937	148.9336	54744.57	69588.73	43851.92	10706.86	89501.41	251.4277	500.9372	-4365.17	1921032	310114.3	33130.83	52132.2	70785.14	44158	11172.07	89310.79	167.9369	355.9199	-4224.3	1919818	311555	33318.45	54744.57	69588.73	43851.92	10706.86	89501.41	251.4277	500.9372	-4365.17	1921032	310114.3	33130.83
11.6096	148.5027	87.4712	9.0072	148.9237	74408.63	60414.33	41515.09	70701.867	149167.7	4190.258	230.5929	-5416.55	1733342	539055.4	55217.52	74408.63	60414.33	41515.09	70701.867	149167.7	4190.258	230.5929	-5416.55	1733342	539055.4	55217.52	74408.63	60414.33	41515.09	70701.867	149167.7	4190.258	230.5929	-5416.55	1733342	539055.4	55217.52
11.0892	109.9091	87.9201	8.7783	152.3031	69964.19	63421.01	42294.68	13737.72	121255.3	612.6932	229.4142	-4951.72	1820215	428155.3	44885.7	69964.19	63421.01	42294.68	13737.72	121255.3	612.6932	229.4142	-4951.72	1820215	428155.3	44885.7	69964.19	63421.01	42294.68	13737.72	121255.3	612.6932	229.4142	-4951.72	1820215	428155.3	44885.7
11.2078	167.7948	87.1983	9.5088	151.0956	69763	62696.4	42107.86	8689.1	162777.6	7806.116	231.2678	-5226.04	1690353	593938.9	60254.64	69763	62696.4	42107.86	8689.1	162777.6	7806.116	231.2678	-5226.04	1690353	593938.9	60254.64	69763	62696.4	42107.86	8689.1	162777.6	7806.116	231.2678	-5226.04	1690353	593938.9	60254.64
11.4307	88.4344	87.0871	9.584	138.1077	70270.89	59496.29	41274.68	8131.957	103222.3	126.8193	1201.755	-3999.6	1873183	360161.5	38209.29	70270.89	59496.29	41274.68	8131.957	103222.3	126.8193	1201.755	-3999.6	1873183	360161.5	38209.29	70270.89	59496.29	41274.68	8131.957	103222.3	126.8193	1201.755	-3999.6	1873183	360161.5	38209.29
11.8705	103.5468	86.8525	7.1889	148.2575	65607.26	64736.03	42632.05	9424.728	115662.8	572.6727	230.1068	-5040.98	1838263	407284.7	42815.52	65607.26	64736.03	42632.05	9424.728	115662.8	572.6727	230.1068	-5040.98	1838263	407284.7	42815.52	65607.26	64736.03	42632.05	9424.728	115662.8	572.6727	230.1068	-5040.98	1838263	407284.7	42815.52
9.6717	96.3035	87.0408	10.7492	144.6347	75377.02	58155.33	40921.44	12377.55	110349.6	594.834	1194.626	-3999.67	1850119	386472.3	40848.69	75377.02	58155.33	40921.44	12377.55	110349.6	594.834	1194.626	-3999.67	1850119	386472.3	40848.69	75377.02	58155.33	40921.44	12377.55	110349.6	594.834	1194.626	-3999.67	1850119	386472.3	40848.69
12.3259	166.464	85.9436	7.9985	140.3026	90537.25	51112.32	39022.01	8781.312	163222.7	507.5786	231.389	-4864.65	1868681	593766.6	60420	90537.25	51112.32	39022.01	8781.312	163222.7	507.5786	231.389	-4864.65	1868681	593766.6	60420	90537.25	51112.32	39022.01	8781.312	163222.7	507.5786	231.389	-4864.65	1868681	593766.6	60420
10.5652	113.376	87.3975	8.9005	150.8739	60745.65	67010.41	43210.66	9363.13	124175.6	3269.238	229.5548	-4928.62	1810865	439188.7	45965.31	60745.65	67010.41	43210.66	9363.13	124175.6	3269.238	229.5548	-4928.62	1810865	439188.7	45965.31	60745.65	67010.41	43210.66	9363.13	124175.6	3269.238	229.5548	-4928.62	1810865	439188.7	45965.31
11.184	153.003	87.5286	8.1857	151.3599	66809.11	64692.57	42620.94	10190.29	152993.2	7222.753	230.8201	-5216.05	1721036	553603	56634.21	66809.11	64692.57	42620.94	10190.29	152993.2	7222.753	230.8201	-5216.05	1721036	553603	56634.21	66809.11	64692.57	42620.94	10190.29	152993.2	7222.753	230.8201	-5216.05	1721036	553603	56634.21
11.3627	92.8293	87.4688	8.7709	157.7496	58824.63	69132.98	43745.29	10902.57	105652.1	1405.735	228.6256	-5305.66	1879306	370542.2	39119.23	58824.63	69132.98	43745.29	10902.57	105652.1	1405.735	228.6256	-5305.66	1879306	370542.2	39119.23	58824.63	69132.98	43745.29	10902.57	105652.1	1405.735	228.6256	-5305.66	1879306	370542.2	39119.23
11.3953	142.3288	88.1848	8.5857	153.1036	52867.22	71274.6	44502.85	11056.13	145143.3	10224.64	230.4339	-5316.3	1745629	522412.8	53727.69	52867.22	71274.6	44502.85	11056.13	145143.3	10224.64	230.4339	-5316.3	1745629	522412.8	53727.69	52867.22	71274.6	44502.85	11056.13	145143.3	10224.64	230.4339	-5316.3	1745629	522412.8	53727.69
11.6602	96.4088	88.8476	7.3007	156.4004	62830.01	67982.83	43456.22	13604.12	108476.3	1289.041	228.7301	-5440.8	1862036	381375.5	40153.86	62830.01	67982.83	43456.22	13604.12	108476.3	1289.041	228.7301	-5440.8	1862036	381375.5	40153.86	62830.01	67982.83	43456.22	13604.12	108476.3	1289.041	228.7301	-5440.8	1862036	381375.5	40153.86
10.5946	175.1464	86.2135	7.8885	147.4421	69398.43	62351.37	42018.67	9197.349	168540.2	5151.535	231.6162	-4937.14	1672591	616394.2	62388.42	69398.43	62351.37	42018.67	9197.349	168540.2	5151.535	231.6162	-4937.14	1672591	616394.2	62388.42	69398.43										

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres	Corn yield draws (bushels per harvested acres)	10 lb Mandate, Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food Importers	CS of corn Importers	CS of ethanol Blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters	Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food Importers	CS of corn Importers	CS of ethanol Blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters
11.9268	149.3486	88.1226	7.2636	153.246		75089.01	62089.37	41950.84	13093.52	149275.6	5383.895	230.5598	-5565.63	1733342	542003.1	55257.27		75089.01	62089.37	41950.84	13093.52	149275.6	5383.895	230.5598	-5565.63	1733342	542003.1	55257.27
11.531	142.5909	85.7861	7.3654	153.0351		68705.12	63831.09	42400.11	9361.373	145121.2	5499.507	230.4171	-5380.11	1745837	522606.2	53719.74		68705.12	63831.09	42400.11	9361.373	145121.2	5499.507	230.4171	-5380.11	1745837	522606.2	53719.74
12.3112	137.371	87.633	8.5283	158.2823		76443.77	71853.6	41889.73	13100.63	140175.4	3635.56	230.1029	-5747.38	1762050	504448.9	51888.06		76443.77	71853.6	41889.73	13100.63	140175.4	3635.56	230.1029	-5747.38	1762050	504448.9	51888.06
11.6409	132.0571	86.6346	7.4645	150.9478		72984.8	61843.63	41887.15	9633.658	137267.2	2897.591	230.0455	-5432.69	1770496	491639.5	50811.63		72984.8	61843.63	41887.15	9633.657	137267.2	2897.591	230.0455	-5432.69	1770496	491639.5	50811.63
9.6375	177.7478	87.565	8.8145	157.2419		39955.61	77654.49	45844.12	11962.9	171688.5	15598.95	301.3802	-4475.07	1661539	627228.5	63533.89		39955.61	77654.49	45844.12	11962.9	171688.5	15598.95	301.3802	-4475.07	1661539	627228.5	63533.89
11.2365	137.8322	85.9071	8.9544	138.01		78123.63	55547.48	40227.08	6684.54	144388.5	456.974	302.5709	-4478.18	1745859	5161.36	53447.85		78123.63	55547.48	40227.08	6684.54	144388.5	456.974	302.5709	-4478.18	1745859	5161.36	53447.85
10.1025	96.9657	85.8931	7.522	143.6801		68313.04	62053.75	41941.61	11105.73	110922.2	575.2449	655.4272	-10499.32	1849939	389084.6	41122.17		68313.04	62053.75	41941.61	11105.73	110922.2	575.2449	655.4272	-10499.32	1849939	389084.6	41122.17
12.0459	88.6727	85.6006	7.2317	148.8516		56788.3	68424.56	43567.41	6894.096	102826.1	378.9667	228.5643	-4916.72	1879469	359247.2	38063.01		56788.3	68424.56	43567.41	6894.096	102826.1	378.9667	228.5643	-4916.72	1879469	359247.2	38063.01
11.0553	155.4331	88.1007	8.7108	148.7758		62916.03	65949.91	42941.62	8018.472	154834.5	8172.946	230.9212	-5154.25	1751201	560797.1	57314.73		62916.03	65949.91	42941.62	8018.472	154834.5	8172.946	230.9212	-5154.25	1751201	560797.1	57314.73
11.4023	105.2548	88.7571	8.9438	138.8575		71144.84	60237.85	41468.96	9659.599	118339.7	273.4265	571.7768	-4317.42	1827015	416120.9	43806.09		71144.84	60237.85	41468.96	9659.599	118339.7	273.4265	571.7768	-4317.42	1827015	416120.9	43806.09
11.0723	85.5107	87.2475	7.7514	142.5768		70371.16	61319.52	41751.03	13461.99	100537.8	213.2643	1072.183	-4061.88	1882416	350295	37215.54		70371.16	61319.52	41751.03	13461.99	100537.8	213.2643	1072.183	-4061.88	1882416	350295	37215.54
11.3513	80.995	85.7065	9.0902	145.5742		68917.62	61472.17	41790.71	11715.22	96235.26	131.9385	120.5533	-3998.74	1895932	334628	35623.95		68917.62	61472.17	41790.71	11715.22	96235.26	131.9385	120.5533	-3998.74	1895932	334628	35623.95
11.4008	125.5466	86.5433	8.2516	140.0509		75833.95	58691.64	41063.02	11210.83	135061.9	396.5611	244.8446	-4518.26	1775489	479687.8	49995.96		75833.95	58691.64	41063.02	11210.83	135061.9	396.5611	244.8446	-4518.26	1775489	479687.8	49995.96
11.7426	157.5996	87.2278	8.7185	139.3434		84638.32	53695.58	39277.75	5664.555	156113.6	1091.402	230.9658	-5208.16	1711380	566300	57788.55		84638.32	53695.58	39277.75	5664.555	156113.6	1091.402	230.9658	-5208.16	1711380	566300	57788.55
10.0114	90.541	86.6914	7.397	155.6799		50672.53	72643.86	44618.77	13243.43	105161.6	2886.763	228.715	-4670.62	1871649	367162.4	38910.48		50672.53	72643.86	44618.77	13243.43	105161.6	2886.763	228.715	-4670.62	1871649	367162.4	38910.48
11.5764	170.3689	86.8501	5.8957	141.6649		75180.42	59455.12	41287.5	6489.171	163797.1	6312.678	231.2662	-5399.18	1688239	599201.4	60633.06		75180.42	59455.12	41287.5	6489.171	163797.1	6312.678	231.2662	-5399.18	1688239	599201.4	60633.06
11.8158	107.7552	86.9807	8.5295	144.279		66265.41	62992.99	42184.41	8958.731	120441.9	297.402	229.5141	-4588.41	1822147	424053.4	44583.6		66265.41	62992.99	42184.41	8958.731	120441.9	297.402	229.5141	-4588.41	1822147	424053.4	44583.6
9.5248	131.9593	88.2604	7.7205	154.1338		52368.35	72007.53	44461.49	16709.16	139928.1	8619.515	408.8308	-4410.39	1759289	498965.2	51797.43		52368.35	72007.53	44461.49	16709.16	139928.1	8619.515	408.8308	-4410.39	1759289	498965.2	51797.43
10.4439	112.899	86.0588	9.1381	157.83		62776.79	66785.76	43153.78	13113.71	123844.5	3074.681	1311.371	-4871.66	1811494	348136.5	45881.04		62776.79	66785.76	43153.78	13113.71	123844.5	3074.681	1311.371	-4871.66	1811494	348136.5	45881.04
10.8627	104.8566	86.4106	10.0349	146.0789		72553.64	59811.59	41357.38	10958.56	17972.2	382.9399	649.6702	-4273.48	1827833	414767.7	43669.35		72553.64	59811.59	41357.38	10958.56	17972.2	382.9399	649.6702	-4273.48	1827833	414767.7	43669.35
11.7192	122.4673	88.6617	10.3668	153.5752		60158.25	67691.45	43382.75	6849.28	129855.2	9075.859	229.6988	-5470.38	1793897	46280.83	48068.88		60158.25	67691.45	43382.75	6849.28	129855.2	9075.859	229.6988	-5470.38	1793897	46280.83	48068.88
12.3997	131.2704	86.8439	10.0671	156.7704		82379.15	58087.32	40903.46	15964.61	137994.7	508.8271	230.1784	-5009.5	1767333	492854	51081.93		82379.15	58087.32	40903.46	15964.61	137994.7	508.8271	230.1784	-5009.5	1767333	492854	51081.93
10.7427	159.367	85.7705	6.5898	158.0754		59367.83	69106.72	43738.7	14608.27	158051.6	10201.7	231.1091	-5008.04	1704930	573212.12	58055.64		59367.83	69106.72	43738.7	14608.27	158051.6	10201.7	231.1091	-5008.04	1704930	573212.12	58055.64
11.1783	108.6958	86.9439	9.1606	145.4362		66599.68	62987.61	42183.02	8867.058	121182.3	461.7607	229.482	-4607.68	1819815	426899.8	44858.67		66599.68	62987.61	42183.02	8867.058	121182.3	461.7607	229.482	-4607.68	1819815	426899.8	44858.67
12.3785	147.5701	87.5839	9.2109	142.2198		84487.21	54548.83	39933.12	9595.126	150554.7	404.4526	230.8124	-4809.26	1727663	541827.3	55731.09		84487.21	54548.83	39933.12	9595.126	150554.7	404.4526	230.8124	-4809.26	1727663	541827.3	55731.09
11.858	97.4624	86.4293	7.4792	151.9288		64002.77	65901.23	42929.24	12595.71	111050.6	373.7766	228.9721	-4783.2	1852648	389383.4	41107.86		64002.77	65901.23	42929.24	12595.71	111050.6	373.7766	228.9721	-4783.2	1852648	389383.4	41107.86
12.7799	87.4526	87.2565	9.7145	151.406		62446.68	65990.57	42951.96	12429.49	102527.1	39.3582	429.2891	-4404.94	1847870	357425.8	37951.71		62446.68	65990.57	42951.96	12429.49	102527.1	39.3582	429.2891	-4404.94	1847870	357425.8	37951.71
11.0279	94.7106	87.2533	6.9776	150.1807		61298.35	67251.25	43271.58	11278.73	108233.1	719.4472	228.8123	-4905.61	1861992	39727.23	40064.82		61298.35	67251.25	43271.58	11278.73	108233.1	719.4472	228.8123	-4905.61	1861992	39727.23	40064.82
11.7002	152.468	87.5649	7.8654	146.8329		88997.23	54333.18	39900.27	13438.46	152999.7	900.9955	230.8514	-5097.41	1720742	535050	56635.8		88997.23	54333.18	39900.27	13438.46	152999.7	900.9955	230.8514	-5097.41	1720742	535050	56635.8
12.0207	103.611	87.8313	8.4679	141.2753		64540.78	63673.37	42359.80	8021.005	117050.7	211.8416	250.433	-4516.63	1832791	411165.2	43329.09		64540.78	63673.37	42359.80	8021.005	117050.7	211.8416	250.433	-4516.63	1832791	411165.2	43329.09
11.2148	104.5438	86.9432	10.0305	136.3312		72387.84	57586.86	40770.43	5932.822	117618.1	244.1684	917.8206	-4131.27	1827811	413524.5	43538.97		72387.84	57586.86	40770.43	5932.822	117618.1	244.1684	917.8206	-4131.27	1827811	413524.5	43538.97
11.3339	196.2634	87.1332	8.2566	151.9639		69106.04	63626.03	42347.42	10079.52	179970.4	11519.99	232.0416	-5283.25	1638841	66776.8	66619.41		69106.04	63626.03	42347.42	10079.52	179970.4	11519.99	232.0416	-5283.25	1638841	66776.8	66619.41
11.5209	95.7322	88.1542	8.8996	143.1038		62587.44	64929.57	42681.53	8665.16	110102.2	273.3506	336.0375	-4461.55	1854699	385311.6	40576.47		62587.44	64929.57	42681.53	8665.16	110102.2	273.3506	336.0375	-4461.55	1854699	385311.6	40576.47
12.1391	96.1319	87.8673	7.9784	150.6496		63174.16	66365.75	43047.27	11602.75	109543.9	387.4712	228.8769	-4915.6	1857728	384093.6	40549.77		63174.16	66365.75	43047.27	11602.75	109543.9	387.4712	228.8769	-4915.6	1		

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	10 lb Mandate, Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	CS of ethanol Blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters	Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	CS of ethanol blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters														
10.9699	117.8668	87.7702	7.3469	145.6358	69902.01	62565.74	42074.1	9298.975	127263.3	1416.508	229.6559	-5124.04	1801428	451619.6	41708.52	69902.01	62565.74	9298.975	127263.3	1416.508	229.6559	-5124.04	1801428	451619.6	41708.52	69902.01	62565.74	9298.975	127263.3	1416.508	229.6559	-5124.04	1801428	451619.6	41708.52							
11.7072	70.1408	87.0771	7.7951	147.4272	60860.76	66589.89	43104.64	13453.64	85636.66	989.8143	947.6751	-4128.31	1931792	296297.6	31699.83	54432.79	69574.87	43856.96	14759.65	-46.2546	545.6084	-3782.88	1929075	259704.8	32141.85	73223.86	63222.83	42243.65	18606.74	133326.2	2831.327	229.9419	-5097.67	1782206	474960.7	49353.6						
10.9271	125.5096	88.7215	8.0769	155.4156	74988.54	61353.6	41759.89	9070.182	131233.3	1531.3	229.7326	-5599.79	1789805	468627.6	48579.27	74988.54	61353.6	41759.89	9070.182	131233.3	1531.3	229.7326	-5599.79	1789805	468627.6	48579.27	74988.54	61353.6	41759.89	9070.182	131233.3	1531.3	229.7326	-5599.79	1789805	468627.6	48579.27					
12.0269	124.7537	89.0735	6.7241	146.8239	67172.06	63952.36	42431.26	10487.92	118949.3	703.8461	229.3113	-4931.17	1827544	419370.7	44031.87	7172.06	63952.36	42431.26	10487.92	118949.3	703.8461	229.3113	-4931.17	1827544	419370.7	44031.87	7172.06	63952.36	42431.26	10487.92	118949.3	703.8461	229.3113	-4931.17	1827544	419370.7	44031.87					
11.2716	117.2204	87.8017	9.8172	150.5231	72237.56	61306.26	41747.58	11298.49	127601.7	643.0603	229.7376	-4820.93	1799770	451942.2	47244.13	72237.56	61306.26	41747.58	11298.49	127601.7	643.0603	229.7376	-4820.93	1799770	451942.2	47244.13	72237.56	61306.26	41747.58	11298.49	127601.7	643.0603	229.7376	-4820.93	1799770	451942.2	47244.13					
11.8943	89.6787	87.1655	8.9132	154.9778	60158.92	68034.95	43469.35	13284.94	104002.7	352.4100	228.6383	-4808	1875480	363952.1	38948.67	60158.92	68034.95	43469.35	13284.94	104002.7	352.4100	228.6383	-4808	1875480	363952.1	38948.67	60158.92	68034.95	43469.35	13284.94	104002.7	352.4100	228.6383	-4808	1875480	363952.1	38948.67					
11.6078	177.6966	86.0717	8.4227	148.1199	84350.62	55656.16	40256.22	8263.645	168349.4	4695.828	231.4703	-5413.39	1673481	618507.6	62318.46	84350.62	55656.16	40256.22	8263.645	168349.4	4695.828	231.4703	-5413.39	1673481	618507.6	62318.46	84350.62	55656.16	40256.22	8263.645	168349.4	4695.828	231.4703	-5413.39	1673481	618507.6	62318.46					
12.5415	79.8205	87.1562	8.3369	152.489	54983.27	70031.84	43970.19	12169.2	95360.11	93.6544	262.1293	-4511.53	1903040	331243.9	35299.59	54634.44	70191.82	44010.12	12233.32	95331.78	85.2731	245.2762	-4493.12	1902864	331440.3	35235.03	12.5415	79.8205	87.1562	8.3369	152.489	54983.27	70031.84	43970.19	12169.2	95360.11	93.6544	262.1293	-4511.53	1903040	331243.9	35299.59
12.4501	121.1209	88.1744	8.2235	152.4271	73561.22	62211.94	41982.59	9081.107	127863.8	1484.38	229.5382	-5790.57	1800809	456196.1	47331.12	73561.22	62211.94	41982.59	9081.107	127863.8	1484.38	229.5382	-5790.57	1800809	456196.1	47331.12	73561.22	62211.94	41982.59	9081.107	127863.8	1484.38	229.5382	-5790.57	1800809	456196.1	47331.12					
11.5797	106.7751	87.3616	9.2128	154.5451	69901.02	63508.84	42317.28	15936.87	119253.4	432.2467	229.368	-4721.92	1826193	419940.6	44144.76	69901.02	63508.84	42317.28	15936.87	119253.4	432.2467	229.368	-4721.92	1826193	419940.6	44144.76	69901.02	63508.84	42317.28	15936.87	119253.4	432.2467	229.368	-4721.92	1826193	419940.6	44144.76					
11.1314	114.1247	86.5453	8.3918	151.7475	71059.9	62387.3	42027.97	12040.67	124727.7	816.3982	229.576	-4949.56	1809148	441358.1	46170.42	71059.9	62387.3	42027.97	12040.67	124727.7	816.3982	229.576	-4949.56	1809148	441358.1	46170.42	71059.9	62387.3	42027.97	12040.67	124727.7	816.3982	229.576	-4949.56	1809148	441358.1	46170.42					
9.8669	139.4809	87.2375	8.7243	153.7046	54073.39	70549.95	44099.43	12110.18	145415	8109.265	230.6248	-4959.89	1743203	520432	53827.86	54073.39	70549.95	44099.43	12110.18	145415	8109.265	230.6248	-4959.89	1743203	520432	53827.86	54073.39	70549.95	44099.43	12110.18	145415	8109.265	230.6248	-4959.89	1743203	520432	53827.86					
11.7033	136.7052	88.0086	7.8579	145.3433	75978.09	59714.72	41331.91	7551.432	140606.4	2203.976	230.191	-5461.6	1760100	504959.1	52064.65	75978.09	59714.72	41331.91	7551.432	140606.4	2203.976	230.191	-5461.6	1760100	504959.1	52064.65	75978.09	59714.72	41331.91	7551.432	140606.4	2203.976	230.191	-5461.6	1760100	504959.1	52064.65					
10.7402	98.5518	86.598	5.7718	143.0636	67906.36	63064.37	42022.81	13051.18	112556.3	314.1079	441.9841	-4377.21	1840686	394468.8	41604.36	67906.36	63064.37	42022.81	13051.18	112556.3	314.1079	441.9841	-4377.21	1840686	394468.8	41604.36	67906.36	63064.37	42022.81	13051.18	112556.3	314.1079	441.9841	-4377.21	1840686	394468.8	41604.36					
12.1522	142.389	86.7799	8.1104	146.1967	82142.44	56602.56	40599.21	8240.167	145079.2	970.6251	230.4229	-5348.96	1745900	522300.3	53703.84	82142.44	56602.56	40599.21	8240.167	145079.2	970.6251	230.4229	-5348.96	1745900	522300.3	53703.84	82142.44	56602.56	40599.21	8240.167	145079.2	970.6251	230.4229	-5348.96	1745900	522300.3	53703.84					
11.3653	102.115	88.0724	7.2578	141.7068	63047.2	64998.68	42699.19	7277.904	114901.1	575.0285	229.1364	-4863.17	1840396	403960.1	42532.5	63047.2	64998.68	42699.19	7277.904	114901.1	575.0285	229.1364	-4863.17	1840396	403960.1	42532.5	63047.2	64998.68	42699.19	7277.904	114901.1	575.0285	229.1364	-4863.17	1840396	403960.1	42532.5					
11.6919	159.7542	87.4901	8.1693	150.9715	64523.16	65622.6	42858.32	7591.757	156689.2	8791.399	230.9265	-5454.33	1710185	569952.6	58001.61	64523.16	65622.6	42858.32	7591.757	156689.2	8791.399	230.9265	-5454.33	1710185	569952.6	58001.61	64523.16	65622.6	42858.32	7591.757	156689.2	8791.399	230.9265	-5454.33	1710185	569952.6	58001.61					
11.3269	137.8332	88.5929	7.9875	144.1546	79909.76	57922.28	40859.79	9865.07	142239	1300.729	230.3267	-5209.22	1754459	510385.6	52682.85	79909.76	57922.28	40859.79	9865.07	142239	1300.729	230.3267	-5209.22	1754459	510385.6	52682.85	79909.76	57922.28	40859.79	9865.07	142239	1300.729	230.3267	-5209.22	1754459	510385.6	52682.85					
11.8745	109.6822	86.9775	8.6782	141.6696	65679.88	62811.3	42137.53	5824.97	121502.8	418.1122	229.4587	-4792.7	1819132	428635.2	44976.33	65679.88	62811.3	42137.53	5824.97	121502.8	418.1122	229.4587	-4792.7	1819132	428635.2	44976.33	65679.88	62811.3	42137.53	5824.97	121502.8	418.1122	229.4587	-4792.7	1819132	428635.2	44976.33					
10.9294	136.1388	85.7184	7.8904	154.8031	75283.72	61113.8	41697.5	9893.261	139853.1	2995.433	230.1312	-5657.96	1762680	502411.9	51768.81	75283.72	61113.8	41697.5	9893.261	139853.1	2995.433	230.1312	-5657.96	1762680	502411.9	51768.81	75283.72	61113.8	41697.5	9893.261	139853.1	2995.433	230.1312	-5657.96	1762680	502411.9	51768.81					
11.4547	139.8092	87.3589	9.3068	147.3982	77886.3	58591.94	41068.73	9200.769	144001.1	1987.089	230.4324	-5109.33	1748739	516963.4	53304.75	77886.3	58591.94	41068.73	9200.769	144001.1	1987.089	230.4324	-5109.33	1748739	516963.4	53304.75	77886.3	58591.94	41068.73	9200.769	144001.1	1987.089	230.4324	-5109.33	1748739	516963.4	53304.75					
12.2605	90.9665	88.0778	9.8303	152.7669	62227.03	66598.7	43106.37	13940.04	105841.2	144.1609	285.1871	-4495.02	1868764	369556.7	39179.19	61691.78	66839.47	43167.38	14045.97	105792.3	128.598	258.2521	-4468.82	1868451	369991.1	39223.71	12.2605	90.9665	88.0778	9.8303	152.7669	62227.03	66598.7	43106.37	13940.04	105841.2	144.1609	285.1871	-4495.02	1868764	369556.7	39179.19
10.3048	71.6607	87.5782	9.4433	153.6783	51324.11	71696.33	44384.38	11179.74	13761.21	16.6717	230.5245	-4467.64	1929089	302216.4	32321.52	50211.39	72123.78	44512.55	11376.56	87236.05	-3.7483	277.7651	-4468.79	1928597	302792.1	32396.25	10.3048	71.6607	87.5782	9.4433	153.6783	51324.11	71696.33	44384.38	11179.74	13761.21	16.6717	230.5245	-4467.64	1929089	302216.4	32321.52
10.1168	112.3447	87.3587	7.6209	150.3862	59551.33	67891.85	42333.29	12023.88	123919.7	3540.376	229.5875	-4717.93	1811284	437783.4	45871.5	59551.33	67891.85	42333.29	12023.88	123919.7	3540.376	229.5875	-4717.93	1811284	437783.4	45871.5	59551.33	67891.85	42333.29	12023.88	123919.7	3540.376	229.5875	-4717.93	1811284	437783.4	45871.5					
11.992	117.8244	87.0993	6.5303	157.3241	68310.86	65616.86	43657.32	13630.03	125841.9	3174.863	229.4883	-5599.08	1806840	447712.8	46582.23	68310.86																										

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	10 lb Mandate, Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	CS of ethanol Blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters	Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	CS of ethanol blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters
10.9707	112.1543	88.9311	8.6275	147.8796		61878.95	66571.63	43909.51	8525.963	122642.4	2884.541	229.4436	-5119.39	1816103	433923.7	45397.68		61878.95	66571.63	43909.51	8525.963	122642.4	2884.541	229.4436	-5119.39	1816103	433923.7	45397.68
11.6959	117.6479	86.92	7.1691	158.4359		49030.73	73908.48	44930.42	9084.019	126104.1	7963.403	229.5301	-5459.87	805745	448261.2	4679.22		49030.73	73908.48	44930.42	9084.019	126104.1	7963.403	229.5301	-5459.87	805745	448261.2	4679.22
11.3026	122.7564	87.1846	9.9483	146.1904		72702.86	60138.64	41443.02	8152.282	131857.9	706.8177	229.9249	-4871.5	1786388	468478.6	48809.82		72702.86	60138.64	41443.02	8152.282	131857.9	706.8177	229.9249	-4871.5	1786388	468478.6	48809.82
11.1395	123.801	88.2656	6.529	151.0447		69254.4	64447.03	42558.09	14243.26	131703	3308.92	229.8444	-5197.67	1787527	469012.4	48752.58		69254.4	64447.03	42558.09	14243.26	131703	3308.92	229.8444	-5197.67	1787527	469012.4	48752.58
10.6609	119.9884	87.6461	7.8384	144.1999		55932.34	68467.76	43578.28	5455.419	129374.1	4956.925	229.7867	-4973.01	1794447	459242	47890.8		55932.34	68467.76	43578.28	5455.419	129374.1	4956.925	229.7867	-4973.01	1794447	459242	47890.8
12.8744	142.7166	87.7676	9.4645	144.3236		90169.05	52534.12	39411.81	15614.99	147889.4	27.475	473.272	-4368.93	173403	530099.9	54743.7		90169.05	52534.12	39411.81	15614.99	147889.4	27.475	473.272	-4368.93	173403	530099.9	54743.7
10.6055	91.8579	87.2496	8.1379	144.2038		59761.13	66484.65	43077.44	8898.258	106617.3	471.1525	315.5278	-4475.23	1866043	372425.5	39469.86		59761.13	66484.65	43077.44	8898.258	106617.3	471.1525	315.5278	-4475.23	1866043	372425.5	39469.86
12.8972	178.0724	88.2027	10.4828	148.32		85273.8	55344.65	40172.65	5006.366	166410.8	4573.526	231.2184	-5987.71	1681722	613893.1	61599.78		85273.8	55344.65	40172.65	5006.366	166410.8	4573.526	231.2184	-5987.71	1681722	613893.1	61599.78
11.8291	128.8115	87.5978	8.5968	156.549		74186.06	62408.04	42033.33	12778.23	134459.6	2787.323	229.8896	-5553.41	1779558	481072.2	49773.36		74186.06	62408.04	42033.33	12778.23	134459.6	2787.323	229.8896	-5553.41	1779558	481072.2	49773.36
12.5527	124.9817	86.7158	8.5125	148.0444		75796.28	59888.88	41298.98	9120.578	132835.6	533.9949	229.913	-5125.12	1783808	473152	49172.34		75796.28	59888.88	41298.98	9120.578	132835.6	533.9949	229.913	-5125.12	1783808	473152	49172.34
12.4931	170.8107	87.2064	8.1918	142.6265		92736.06	51348.01	39086.86	8172.054	164125.4	1000.7	231.2848	-5386.45	1687204	600504.4	60753.9		92736.06	51348.01	39086.86	8172.054	164125.4	1000.7	231.2848	-5386.45	1687204	600504.4	60753.9
11.9085	130.085	87.1458	8.9601	134.2686		75908.08	56163.93	40392.12	5636.917	138509.4	247.1453	383.592	-4426.56	1763879	493146.3	51272.73		75908.08	56163.93	40392.12	5636.917	138509.4	247.1453	383.592	-4426.56	1763879	493146.3	51272.73
11.4444	147.9728	86.595	9.3761	134.3562		87784.77	50257.43	38785.96	7869.597	151573.7	314.492	668.0139	-4253.73	1721657	544923.2	56107.92		87784.77	50257.43	38785.96	7869.597	151573.7	314.492	668.0139	-4253.73	1721657	544923.2	56107.92
10.4371	104.6505	88.6997	8.2737	155.0146		50234.57	73068.17	44723.58	12596.29	117056.6	571.912	229.2356	-4869.29	1833492	412069.1	43330.68		50234.57	73068.17	44723.58	12596.29	117056.6	571.912	229.2356	-4869.29	1833492	412069.1	43330.68
11.1175	170.5102	87.6669	9.7319	150.356		70938.81	62120.35	41958.87	901.975	164680.4	7190.321	3371.563	-5183.39	1685004	601643.7	60959.01		70938.81	62120.35	41958.87	901.975	164680.4	7190.321	3371.563	-5183.39	1685004	601643.7	60959.01
12.7251	150.323	87.8342	10.2941	139.5434		83415.56	53828.45	39963.76	6873.389	152492.3	319.6613	230.903	-4809.17	1721649	549623	56468.18		83415.56	53828.45	39963.76	6873.389	152492.3	319.6613	230.903	-4809.17	1721649	549623	56468.18
11.0758	75.4617	86.706	9.9473	143.148		58064.38	66176.53	42799.22	6549.015	90962.57	229.8664	821.2879	-4190	914772	315444.7	33671.43		58064.38	66176.53	42799.22	6549.015	90962.57	229.8664	821.2879	-4190	914772	315444.7	33671.43
10.857	101.113	87.922	7.5422	146.5959		64149.68	65324.19	42782.27	11002.88	114288.6	654.2499	229.1269	-4765.36	1842194	401417.8	42306.72		64149.68	65324.19	42782.27	11002.88	114288.6	654.2499	229.1269	-4765.36	1842194	401417.8	42306.72
10.8665	117.6956	88.3542	8.6436	149.079		62622.68	66258.04	43081.93	9150.925	127266.9	3477.022	229.6679	-5069.88	1801313	451457.1	47306.12		62622.68	66258.04	43081.93	9150.925	127266.9	3477.022	229.6679	-5069.88	1801313	451457.1	47306.12
10.3956	116.1445	87.8252	9.1212	155.7204		58355.04	69006.84	43713.66	13096.55	126653.7	4667.734	229.6873	-4848.65	1802834	448402	46882.74		58355.04	69006.84	43713.66	13096.55	126653.7	4667.734	229.6873	-4848.65	1802834	448402	46882.74
11.9388	107.1753	87.4368	8.5001	155.9241		69156.72	64398.07	42545.55	12507.5	11921.8	855.3469	229.181	-5340.91	1831562	416637.3	43650.27		69156.72	64398.07	42545.55	12507.5	11921.8	855.3469	229.181	-5340.91	1831562	416637.3	43650.27
11.7048	124.0536	87.2565	9.3489	156.4355		71655.28	63028.68	42193.61	11147.17	131103.8	2502.959	229.7573	-5463.45	1789944	466729.7	48529.98		71655.28	63028.68	42193.61	11147.17	131103.8	2502.959	229.7573	-5463.45	1789944	466729.7	48529.98
10.8408	78.0667	86.4694	7.5272	137.7668		54509.23	70897.75	44186.02	10370.74	125732.9	5812.937	229.583	-5134.85	1806305	445781.2	46542.48		54509.23	70897.75	44186.02	10370.74	125732.9	5812.937	229.583	-5134.85	1806305	445781.2	46542.48
11.1846	86.6668	87.5331	8.7431	152.6417		65294.07	65719.56	42883.01	18486.72	101770	285.1587	512.2061	-4355.85	1880824	354674.2	37671.87		65294.07	65719.56	42883.01	18486.72	101770	285.1587	512.2061	-4355.85	1880824	354674.2	37671.87
11.5653	129.4212	86.7326	8.4436	145.5402		73563.33	59247.08	41209.22	7375.862	136069	989.7429	230.0495	-5179.91	1773738	485960.1	50368.02		73563.33	59247.08	41209.22	7375.862	136069	989.7429	230.0495	-5179.91	1773738	485960.1	50368.02
11.6595	114.6919	87.1062	9.6675	144.9246		68180.31	62009.71	41930.2	6143.576	125111.5	640.0158	229.588	-4977	1807979	442907.9	46311.93		68180.31	62009.71	41930.2	6143.576	125111.5	640.0158	229.588	-4977	1807979	442907.9	46311.93
12.2953	111.6345	87.9483	10.1673	136.2506		81235.6	54113.78	39840.98	9456.499	123528.6	1117.212	1130.488	-4024.13	1808059	435889.5	45726.81		81235.6	54113.78	39840.98	9456.499	123528.6	1117.212	1130.488	-4024.13	1808059	435889.5	45726.81
11.3311	134.6352	87.87	8.3875	150.711		79830.45	58993.64	41142.56	12652.51	139694.2	1524.969	230.1952	-5269.73	1762549	500561.5	51709.98		79830.45	58993.64	41142.56	12652.51	139694.2	1524.969	230.1952	-5269.73	1762549	500561.5	51709.98
12.7259	145.0972	88.4372	8.2598	142.9203		84404.25	55500.05	40214.35	9272.877	147494.1	615.3992	230.5706	-5201.62	1763959	531319.9	54597.42		84404.25	55500.05	40214.35	9272.877	147494.1	615.3992	230.5706	-5201.62	1763959	531319.9	54597.42
10.1633	122.9315	87.7161	7.1473	143.6947		57781.17	67738.82	43394.7	7772.471	132389.3	4837.167	229.9797	-4738.76	1784442	470077.5	49006.98		57781.17	67738.82	43394.7	7772.471	132389.3	4837.167	229.9797	-4738.76	1784442	470077.5	49006.98
11.077	130.6204	87.3361	5.6971	157.5688		44369.9	76381.37	45535.09	12380.72	137013.8	1076.114	230.0959	-5167.65	1770743	489614.2	50017.82		44369.9	76381.37	45535.09	12380.72	137013.8	1076.114	230.0959	-5167.65	1770743	489614.2	50017.82
12.2642	136.4459	87.2139	7.839	157.9157		67702.5	65522.23	42840.4	11006.18	139574.5	5863.601	230.0811	-5725.36	1763881	501963.9	51665.46		67702.5	65522.23	42840.4	11006.18	139574.5	5863.601	230.0811	-5725.36	1763881	501963.9	51665.46
11.6198	114.0886	88.869	8.7937	152.5247		69222.66	64139.73	42749.33	11013.94	123358.5	1735.844	229.4124	-5424.42	1814391	437599.5	45663.21		69222.66	64139.73	42749.33	11013.94	123358.5	1735.844	229.4124	-5424.42	1814391	437599.5	45663.21
9.9078	133.8102	87.0495	8.3367	144.563		86104.83	54517.53	39950.03	16403.65	141254.5	856.0861	577.2715	-4308.49	1754302	503976.1	52288.74		86104.83	54517.53	39950.03	16403.65	141254.5	856.0861	577.2715	-4308.49	1754302	503976.1	52288.74

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres	Corn yield draws (bushels per harvested acres)	10 lb Mandate, Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	CS of ethanol Blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters	Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	CS of ethanol Blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters	
12.9481	197.621	86.5501	8.4418	153.0759		87354.21	55793.57	40293.03	7913.689	177704.2	7247.61	231.707	-6042.25	1647696	663444.9	65779.89		87354.21	55793.57	40293.03	7913.689	177704.2	7247.61	231.707	-6042.25	1647696	663444.9	65779.89	
11.382	163.7841	88.6698	7.2836	142.1021		73246.93	60678.28	41584	7444.683	159869.1	6191.292	231.114	-5308.3	1700058	582307.9	59178.21		73246.93	60678.28	41584	7444.683	159869.1	6191.292	231.114	-5308.3	1700058	582307.9	59178.21	
12.2563	158.2731	87.6892	8.5627	154.1175		79845.34	59585.43	41298.08	10902.76	154769	4062.673	230.7687	-5719.86	1716720	563444.5	57290.88		79845.34	59585.43	41298.08	10902.76	154769	4062.673	230.7687	-5719.86	1716720	563444.5	57290.88	
11.6535	137.1945	86.9133	7.0022	158.645		59604.92	69334.15	43795.7	12470.6	141038.6	8068.227	230.2163	-5438.16	1758699	506577	52207.65		59604.92	69334.15	43795.7	12470.6	141038.6	8068.227	230.2163	-5438.16	1758699	506577	52207.65	
11.6597	128.7521	87.1903	9.1042	143.256		77987.18	57449.62	40734.52	11000.24	137529.2	327.7198	289.2245	-4488.02	1767465	489279.6	59098.62		77987.18	57449.62	40734.52	11000.24	137529.2	327.7198	289.2245	-4488.02	1767465	489279.6	59098.62	
11.214	105.4549	86.9449	7.0343	148.895		67078.5	64259.05	42509.93	11828.28	117721.7	64.004	230.4652	-4876.31	1831374	414590.8	43577.13		67078.5	64259.05	42509.93	11828.28	117721.7	64.004	230.4652	-4876.31	1831374	414590.8	43577.13	
9.8764	134.0921	87.2166	8.3337	144.2281		76587.75	58653.04	41052.84	11943.35	141415.4	164.004	230.4371	-4955.35	1755720	504670	52347.57		76587.75	58653.04	41052.84	11943.35	141415.4	164.004	230.4371	-4955.35	1755720	504670	52347.57	
11.9538	187.5432	87.0459	7.7124	152.5863		89847.39	55223.64	40140.14	13422.74	173703.5	5557.697	231.667	-5575.38	1685841	642538.2	64299.6		89847.39	55223.64	40140.14	13422.74	173703.5	5557.697	231.667	-5575.38	1685841	642538.2	64299.6	
12.2548	134.1975	88.8266	9.6723	145.2599		80914.89	57142.34	40652.9	12207.69	140904.5	389.0516	230.3679	-4782.81	1757723	503394.7	52158.36		80914.89	57142.34	40652.9	12207.69	140904.5	389.0516	230.3679	-4782.81	1757723	503394.7	52158.36	
10.9079	164.0722	88.1345	8.6941	146.6324		72023.59	62260.64	41995.19	9805.035	161191.9	6946.706	231.2592	-4992.24	1695229	586058.9	59667.93		72023.59	62260.64	41995.19	9805.035	161191.9	6946.706	231.2592	-4992.24	1695229	586058.9	59667.93	
10.9843	117.2358	88.1372	9.2822	147.9054		70401.94	62211.32	41982.42	9461.044	126921.9	1133.981	229.6537	-5061.8	1802391	450107.1	46982.91		70401.94	62211.32	41982.42	9461.044	126921.9	1133.981	229.6537	-5061.8	1802391	450107.1	46982.91	
11.7199	89.2089	87.6949	6.6725	138.487		72922.61	59831.74	41362.66	12973	130955.9	88.674	1118.512	-4038.33	1871116	362839	38481.18		72922.61	59831.74	41362.66	12973	130955.9	88.674	1118.512	-4038.33	1871116	362839	38481.18	
11.1512	89.6028	87.7357	8.6941	140.0478		71028.06	61166.87	41711.32	13724.11	104362.1	225.8661	946.3378	-4121.88	1870478	364293.5	38632.23		71028.06	61166.87	41711.32	13724.11	104362.1	225.8661	946.3378	-4121.88	1870478	364293.5	38632.23	
10.3428	103.6494	86.8995	6.5565	146.4105		64676.86	65306.09	42708.74	11336.3	116571.3	889.9125	229.2409	-4729.1	1834800	409874.7	4351.01		64676.86	65306.09	42708.74	11336.3	116571.3	889.9125	229.2409	-4729.1	1834800	409874.7	4351.01	
12.7583	151.6773	86.4739	5.6289	147.0661		86460.87	55960.88	40337.82	8327.183	149751.1	1604.891	230.4991	-5887.64	1732592	543716.9	54533.76		86460.87	55960.88	40337.82	8327.183	149751.1	1604.891	230.4991	-5887.64	1732592	543716.9	54533.76	
12.0276	160.7353	87.7479	7.4056	141.3327		89262.06	63097.81	39565.42	8995.182	157979.3	1041.338	231.034	-5273.96	1705786	574312	58471.61		89262.06	63097.81	39565.42	8995.182	157979.3	1041.338	231.034	-5273.96	1705786	574312	58471.61	
11.0215	147.1604	86.7224	6.8067	144.5812		57484.05	67843.17	43421.02	5102.063	149151.4	8222.086	230.6622	-5141.83	1732775	537709.9	55211.16		57484.05	67843.17	43421.02	5102.063	149151.4	8222.086	230.6622	-5141.83	1732775	537709.9	55211.16	
11.2405	129.5283	87.1534	10.1316	136.3324		86354.59	51371.96	39093.45	9476.941	137832.8	261.3032	1008.770	-4077.74	1763199	490809.6	51028.51		86354.59	51371.96	39093.45	9476.941	137832.8	261.3032	1008.770	-4077.74	1763199	490809.6	51028.51	
11.3267	110.8752	88.7232	5.9631	158.5936		46403.38	75873.76	45411.45	14251.35	121104.1	7898.568	229.3361	-5295.83	1821327	428594.4	44828.46		46403.38	75873.76	45411.45	14251.35	121104.1	7898.568	229.3361	-5295.83	1821327	428594.4	44828.46	
11.7597	98.3391	87.4134	9.3433	145.4665		68811.91	62092.51	41951.66	11455.79	112342.1	192.8801	549.4782	-4331.74	1846401	393697.4	41584.86		68811.91	62092.51	41951.66	11455.79	112342.1	192.8801	549.4782	-4331.74	1846401	393697.4	41584.86	
12.4927	151.571	86.4592	6.7333	151.9035		75974.25	60986.71	41664.41	8583.684	149870.9	5027.682	230.5188	-4831.53	1732095	543926.1	55478.28		75974.25	60986.71	41664.41	8583.684	149870.9	5027.682	230.5188	-4831.53	1732095	543926.1	55478.28	
10.2669	132.4505	87.9243	8.7374	155.9466		57074.78	69834.92	43920.99	14516.48	139579.4	7128.359	230.305	-4766.6	1761889	498209.9	51668.64		57074.78	69834.92	43920.99	14516.48	139579.4	7128.359	230.305	-4766.6	1761889	498209.9	51668.64	
11.0774	95.4085	86.8642	8.7861	156.51		57616.76	69201.45	43762.45	9655.139	108269.1	1868.078	228.7704	-5171.26	1862262	379955.6	40077.54		57616.76	69201.45	43762.45	9655.139	108269.1	1868.078	228.7704	-5171.26	1862262	379955.6	40077.54	
11.0471	127.8719	87.1631	7.3553	151.1656		65075.87	65590.28	42850.09	10692.89	130326.7	3691.327	229.7906	-5154.35	1791789	463530.3	48242.19		65075.87	65590.28	42850.09	10692.89	130326.7	3691.327	229.7906	-5154.35	1791789	463530.3	48242.19	
12.9967	78.6791	88.1762	7.2969	143.5696		55453.66	68929.13	43694.16	9072.494	94217.5	15.8264	388.5985	-4463.32	1906107	327131.9	34876.65		55453.66	68929.13	43694.16	9072.494	94217.5	15.8264	388.5985	-4463.32	1906107	327131.9	34876.65	
11.8337	151.1811	87.9387	10.0743	142.3423		84919.54	54057.47	39825.75	8865.724	152899.8	625.7895	230.9073	-4831.52	1720516	55133.5	56599.23		84919.54	54057.47	39825.75	8865.724	152899.8	625.7895	230.9073	-4831.52	1720516	55133.5	56599.23	
12.0682	135.6335	88.342	7.5013	150.8484		61981.93	67233.95	43267.2	7349.395	139275.5	6746.543	230.0895	-5633.28	1764622	500391.7	51555.75		61981.93	67233.95	43267.2	7349.395	139275.5	6746.543	230.0895	-5633.28	1764622	500391.7	51555.75	
10.5042	99.1905	87.3918	9.0404	139.3109		65958.33	62177.67	41973.71	7387.376	113088.8	479.5324	558.421	-4326.4	1843952	396479.1	41861.52		65958.33	62177.67	41973.71	7387.376	113088.8	479.5324	558.421	-4326.4	1843952	396479.1	41861.52	
11.9032	140.2409	87.6789	9.3581	156.1157		62547.8	67087.67	43230.21	8367.783	142865.6	7240.881	230.2712	-5653.32	1753246	514354.7	52884.99		62547.8	67087.67	43230.21	8367.783	142865.6	7240.881	230.2712	-5653.32	1753246	514354.7	52884.99	
11.999	95.2412	87.378	8.5028	149.4346		62159.92	66233.7	43013.75	11306.71	109495.8	253.9533	228.928	-4603.36	1857409	383252.4	40532.28		62159.92	66233.7	43013.75	11306.71	109495.8	253.9533	228.928	-4603.36	1857409	383252.4	40532.28	
11.0646	110.1143	87.0342	9.2844	152.534		69350.97	63194.34	42236.31	12359.87	121667.6	734.2884	229.4499	-4872.35	1818753	429488.8	45038.34		69350.97	63194.34	42236.31	12359.87	121667.6	734.2884	229.4499	-4872.35	1818753	429488.8	45038.34	
12.4082	168.8404	87.2634	9.4647	157.8825		76753.39	61113.35	41697.38	10508.65	161388	7333.044	231.0482	-5790.43	1696564	591384.6	59741.07		76753.39	61113.35	41697.38	10508.65	161388	7333.044	231.0482	-5790.43	1696564	591384.6	59741.07	
11.2309	91.631	86.8648	8.8276	156.0405		50689.91	72319.28	44538.65	7652.772	104854.9	2984.25	228.6094	-5192.11	1873327	367330.5	38813.49		50689.91	72319.28	44538.65	7652.772	104854.9	2984.25	228.6094	-5192.11	1873327	367330.5	38813.49	
12.3432	96.4863	87.1005	10.313	143.7973		64177.92	63380.12	42284.15	7291.537	110733.6	106.7544	451.7768	-4329.72	1852065	387690.8	40990.2		6417											

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres	Corn yield draws (bushels per harvested acres)	10 lb Mandate, Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food Importers	CS of corn Importers	CS of ethanol Blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters	Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food Importers	CS of corn Importers	CS of ethanol blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters									
10.1517	127.8993	88.8347	8.3744	154.8588	62337.58	67691.95	43382.88	17702.55	136275.3	5430.432	230.1631	-4732.84	1772167	485111.8	50444.34	62337.58	67691.95	43382.88	17702.55	136275.3	5430.432	230.1631	-4732.84	1772167	485111.8	50444.34	62337.58	67691.95	43382.88	17702.55	136275.3	5430.432	230.1631	-4732.84	1772167	485111.8	50444.34
11.524	132.9242	88.2921	10.2831	144.799	77124.8	58169.43	40925.17	7931.833	139173.4	837.7105	230.2281	-5030.35	1763677	497560.1	51517.59	77124.8	58169.43	40925.17	7931.833	139173.4	837.7105	230.2281	-5030.35	1763677	497560.1	51517.59	77124.8	58169.43	40925.17	7931.833	139173.4	837.7105	230.2281	-5030.35	1763677	497560.1	51517.59
12.4004	114.6175	86.91	9.1767	139.4217	67718.5	61114.94	41697.8	5889.207	126289.0	167.7387	229.737	-4539.07	1803398	446057.6	46747.59	67718.5	61114.94	41697.8	5889.207	126289.0	167.7387	229.737	-4539.07	1803398	446057.6	46747.59	67718.5	61114.94	41697.8	5889.207	126289.0	167.7387	229.737	-4539.07	1803398	446057.6	46747.59
11.7681	149.548	88.3802	7.1484	137.0265	85017.43	54173.28	39857.07	10122.7	152153	537.2603	230.9028	-4748.82	1722562	547975.1	56322.57	85017.43	54173.28	39857.07	10122.7	152153	537.2603	230.9028	-4748.82	1722562	547975.1	56322.57	85017.43	54173.28	39857.07	10122.7	152153	537.2603	230.9028	-4748.82	1722562	547975.1	56322.57
11.9383	179.0489	87.7016	7.866	144.1084	81068.19	57077.53	40635.68	6666.832	168596.4	5813.493	231.4369	-5568.7	1674022	620541.7	62409.09	81068.19	57077.53	40635.68	6666.832	168596.4	5813.493	231.4369	-5568.7	1674022	620541.7	62409.09	81068.19	57077.53	40635.68	6666.832	168596.4	5813.493	231.4369	-5568.7	1674022	620541.7	62409.09
10.8089	161.9314	86.7111	9.1328	152.4697	60573.83	67054.09	43221.71	8364.663	159608.4	9414.441	231.1729	-5038.95	1700211	579774.9	53928.81	60573.83	67054.09	43221.71	8364.663	159608.4	9414.441	231.1729	-5038.95	1700211	579774.9	53928.81	60573.83	67054.09	43221.71	8364.663	159608.4	9414.441	231.1729	-5038.95	1700211	579774.9	53928.81
11.4506	106.0375	88.1171	8.8542	149.0739	61242.5	66720.7	43137.29	6430.884	116958.5	2069.742	229.136	-5345.63	1834650	413003.5	490821.1	61242.5	66720.7	43137.29	6430.884	116958.5	2069.742	229.136	-5345.63	1834650	413003.5	490821.1	61242.5	66720.7	43137.29	6430.884	116958.5	2069.742	229.136	-5345.63	1834650	413003.5	490821.1
11.7226	196.7427	86.8507	8.5494	154.9386	71133.76	63112.51	42215.22	10447.38	179516	11516.91	231.9646	-5466.03	1640703	667123.1	66450.87	71133.76	63112.51	42215.22	10447.38	179516	11516.91	231.9646	-5466.03	1640703	667123.1	66450.87	71133.76	63112.51	42215.22	10447.38	179516	11516.91	231.9646	-5466.03	1640703	667123.1	66450.87
11.0267	111.7387	86.9536	9.0629	151.6296	71143.65	62276.6	41999.32	14875.3	123772	501.8751	229.6075	-4590.08	1811514	436647.3	45815.85	71143.65	62276.6	41999.32	14875.3	123772	501.8751	229.6075	-4590.08	1811514	436647.3	45815.85	71143.65	62276.6	41999.32	14875.3	123772	501.8751	229.6075	-4590.08	1811514	436647.3	45815.85
12.5913	184.1089	86.8666	6.9245	151.7844	73185.61	62007.77	41929.7	7269.905	170491.4	9846.016	231.4336	-5875.41	1669046	630691.8	63110.28	73185.61	62007.77	41929.7	7269.905	170491.4	9846.016	231.4336	-5875.41	1669046	630691.8	63110.28	73185.61	62007.77	41929.7	7269.905	170491.4	9846.016	231.4336	-5875.41	1669046	630691.8	63110.28
10.9148	144.3215	87.7171	7.0353	148.4645	67424.7	64344.84	42531.91	11103.78	147311.6	5874.08	230.5902	-5090.19	1738379	530088.8	54530.64	67424.7	64344.84	42531.91	11103.78	147311.6	5874.08	230.5902	-5090.19	1738379	530088.8	54530.64	67424.7	64344.84	42531.91	11103.78	147311.6	5874.08	230.5902	-5090.19	1738379	530088.8	54530.64
11.024	129.2033	87.0937	9.6002	146.212	75353.16	59063.34	41160.91	8276.702	137066.8	1020.888	230.1425	-4978.96	1770186	489106.3	50738.49	75353.16	59063.34	41160.91	8276.702	137066.8	1020.888	230.1425	-4978.96	1770186	489106.3	50738.49	75353.16	59063.34	41160.91	8276.702	137066.8	1020.888	230.1425	-4978.96	1770186	489106.3	50738.49
10.9585	149.6533	86.0572	7.9369	154.5819	79489.34	59405.87	41250.94	14995.2	151004.2	3681.069	230.7558	-5110.3	1726954	545032	55896.45	79489.34	59405.87	41250.94	14995.2	151004.2	3681.069	230.7558	-5110.3	1726954	545032	55896.45	79489.34	59405.87	41250.94	14995.2	151004.2	3681.069	230.7558	-5110.3	1726954	545032	55896.45
11.362	136.367	86.839	7.7549	150.8195	67955.46	63983.36	42439.21	9181.346	140134.8	4614.448	230.2079	-5301.27	1761236	502430.3	51873.75	67955.46	63983.36	42439.21	9181.346	140134.8	4614.448	230.2079	-5301.27	1761236	502430.3	51873.75	67955.46	63983.36	42439.21	9181.346	140134.8	4614.448	230.2079	-5301.27	1761236	502430.3	51873.75
11.8078	118.7976	86.9477	7.8876	151.3886	66095.58	64908.63	42676.18	7552.979	126861.2	2885.643	229.5533	-5512.37	1803447	451356.4	46960.65	66095.58	64908.63	42676.18	7552.979	126861.2	2885.643	229.5533	-5512.37	1803447	451356.4	46960.65	66095.58	64908.63	42676.18	7552.979	126861.2	2885.643	229.5533	-5512.37	1803447	451356.4	46960.65
12.8539	128.8893	87.0669	8.6489	140.9986	82818.24	54892.34	40051.04	11637.79	137527.5	16.0419	527.421	-4338.66	1766255	489400.3	50908.62	82818.24	54892.34	40051.04	11637.79	137527.5	16.0419	527.421	-4338.66	1766255	489400.3	50908.62	82818.24	54892.34	40051.04	11637.79	137527.5	16.0419	527.421	-4338.66	1766255	489400.3	50908.62
11.2194	215.0786	87.2669	9.6218	134.8389	94405.06	47697.36	38071.23	4411.934	190718.2	3343.421	232.5524	-5228.13	1606472	715248.8	70597.59	94405.06	47697.36	38071.23	4411.934	190718.2	3343.421	232.5524	-5228.13	1606472	715248.8	70597.59	94405.06	47697.36	38071.23	4411.934	190718.2	3343.421	232.5524	-5228.13	1606472	715248.8	70597.59
11.2124	184.3036	86.9499	9.1484	141.8781	91862.62	50909.01	38965.98	7519.601	173108.8	2352.465	231.7431	-5228.84	1659436	637629.5	64080.18	91862.62	50909.01	38965.98	7519.601	173108.8	2352.465	231.7431	-5228.84	1659436	637629.5	64080.18	91862.62	50909.01	38965.98	7519.601	173108.8	2352.465	231.7431	-5228.84	1659436	637629.5	64080.18
11.1685	81.4653	87.0257	9.0802	158.9709	46953.75	74424.96	45057.2	8314.985	95451.24	2478.172	228.1728	-5215.6	1903920	332796.7	35332.98	46953.75	74424.96	45057.2	8314.985	95451.24	2478.172	228.1728	-5215.6	1903920	332796.7	35332.98	46953.75	74424.96	45057.2	8314.985	95451.24	2478.172	228.1728	-5215.6	1903920	332796.7	35332.98
11.7828	117.5835	86.8187	9.4441	153.0418	72354.93	61827.97	41883.08	9974.08	126684.5	879.3407	229.6039	-5240.85	1803488	449775.4	46895.46	72354.93	61827.97	41883.08	9974.08	126684.5	879.3407	229.6039	-5240.85	1803488	449775.4	46895.46	72354.93	61827.97	41883.08	9974.08	126684.5	879.3407	229.6039	-5240.85	1803488	449775.4	46895.46
13.1284	125.9507	85.2907	8.2141	154.891	75704.76	60638.16	41573.53	6717.965	131202.7	1100.027	229.6638	-5900.95	1790495	469620.6	48566.55	75704.76	60638.16	41573.53	6717.965	131202.7	1100.027	229.6638	-5900.95	1790495	469620.6	48566.55	75704.76	60638.16	41573.53	6717.965	131202.7	1100.027	229.6638	-5900.95	1790495	469620.6	48566.55
11.6681	91.8746	86.7551	7.0375	149.7513	61016.42	67514.57	43338.11	10657.8	105967.8	417.4854	228.7277	-4821.07	1869132	37026.8	39225.3	61016.42	67514.57	43338.11	10657.8	105967.8	417.4854	228.7277	-4821.07	1869132	37026.8	39225.3	61016.42	67514.57	43338.11	10657.8	105967.8	417.4854	228.7277	-4821.07	1869132	37026.8	39225.3
11.2305	110.5519	87.3437	7.4731	151.2526	56064.37	69667.71	43879.19	7836.123	120988.2	4407.402	229.3419	-5241.7	1821598	427991.5	44785.53	56064.37	69667.71	43879.19	7836.123	120988.2	4407.402	229.3419	-5241.7	1821598	427991.5	44785.53	56064.37	69667.71	43879.19	7836.123	120988.2	4407.402	229.3419	-5241.7	1821598	427991.5	44785.53
10.5309	137.942	86.9745	8.317	141.9334	77878.25	57429.19	40729.1	8675.614	143601.3	1142.014	230.4875	-4809.53	1749336	514129.5	51566.88	77878.25	57429.19	40729.1	8675.614	143601.3	1142.014	230.4875	-4809.53	1749336	514129.5	51566.88	77878.25	57429.19	40729.1	8675.614	143601.3	1142.014	230.4875	-4809.53	1749336	514129.5	51566.88
11.493	102.0628	87.8699	7.9647	155.047	67500.9	65301.11	42776.38	15449.74	114374.9	694.7985	229.0758	-5047.95	1842406	402465.4	42338.12	67500.9	65301.11	42776.38	15449.74	114374.9	694.7985	229.0758	-5047.95	1842406	402465.4	42338.12	67500.9										

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres	Corn yield draws (bushels per harvested acres)	10 lb Mandate, Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	CS of ethanol Blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters	Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	CS of ethanol blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters
11.5522	84.9312	87.2452	8.656	148.9643		582333.52	67847.87	43422.2	10731.65	100199.3	244.1109	342.0364	-4459.32	1886800	3488883.9	37089.93		57172.39	68340.23	43546.2	10920.27	100107.2	207.9089	285.7451	-5402.09	1886214	349533.3	37175.79
11.7046	151.9354	86.0286	9.209	162.5531		69191.4	62899.31	42160.24	6817.768	151388.6	611.7206	1726562	-5460.91	1726562	548278.5	56039.55		69191.4	62899.31	42160.24	6817.768	151388.6	611.7206	1726562	-5460.91	1726562	548278.5	56039.55
11.9228	125.7758	87.6339	8.1035	143.7071		73921.81	59980.82	41404.33	6746.346	132999	900.8841	229.8867	-5274.13	1783592	474323.9	49232.76		73921.81	59980.82	41404.33	6746.346	132999	900.8841	229.8867	-5274.13	1783592	474323.9	49232.76
11.3029	108.1326	85.8811	8.4799	144.8468		75097.61	58821.31	41097.19	6186.45	120753.2	283.8816	656.6846	-4268.8	1818894	425234.4	44699.67		71714.9	60354.48	41499.45	12655.19	120451.8	164.7316	442.9379	-4118.41	1816823	427511.5	45004.95
10.8368	123.29	88.0801	8.9137	147.2252		65047.5	64259.04	42509.92	7102.846	131729.3	3118.356	229.8776	-5055.42	1878161	468616.1	48762.12		65047.5	64259.04	42509.92	7102.846	131729.3	3118.356	229.8776	-5055.42	1878161	468616.1	48762.12
11.2195	151.5897	87.1261	9.4948	146.0798		77923.44	57951.31	40867.47	7124.186	151930.7	3048.7	230.7668	-5232.85	1724363	549368.8	56239.89		77923.44	57951.31	40867.47	7124.186	151930.7	3048.7	230.7668	-5232.85	1724363	549368.8	56239.89
12.0724	85.3986	86.342	8.1453	156.6049		65003.37	66049.54	42966.95	19116.4	100590	130.1715	494.3052	-4366.58	1884754	350352.3	37324.62		62495.05	67149.89	43245.95	9186.99	109390.2	63.6491	360.8851	-4237.83	1883438	351818.5	37428.6
11.7155	85.1189	89.1345	7.8682	143.5187		69789.81	62484.57	42053.12	16140.82	100209.8	119.18	916.8064	-4138.21	1884107	349062.3	37094.7		64183.43	65010.88	42702.3	17385.32	99790.78	33.1549	556.8282	-3838.95	1881112	352513.3	37547.85
12.0172	96.9309	88.6039	7.6804	145.8617		67783.38	63745.78	42378.2	14848.69	111143.8	170.3312	409.4307	-4415.41	1850955	389199.2	41141.25		66211.04	64447.82	42558.29	15175.1	110994.6	120.1544	323.6109	-4332.07	1849971	390244.8	41281.17
11.8606	145.3917	86.8306	7.9443	151.31		80423.73	58622.64	41044.83	10191.38	146594.3	2655.917	230.4457	-5534.84	1741594	529220.9	54265.11		80423.73	58622.64	41044.83	10191.38	146594.3	2655.917	230.4457	-5534.84	1741594	529220.9	54265.11
10.5321	120.3892	86.9083	7.3739	148.3968		59165.44	67638.5	43369.39	8729.228	129869.2	4540.162	229.8232	-4912.39	1792760	460946.9	48073.65		59165.44	67638.5	43369.39	8729.228	129869.2	4540.162	229.8232	-4912.39	1792760	460946.9	48073.65
11.2459	154.0818	86.2029	6.9553	157.3174		56129.62	70405.59	44063.45	10965.5	153599.2	10614.32	230.8404	-5245.08	1719229	556213.3	56858.4		56129.62	70405.59	44063.45	10965.5	153599.2	10614.32	230.8404	-5245.08	1719229	556213.3	56858.4
12.4277	155.5879	87.1917	8.3933	150.6964		78594.64	59224.23	41203.22	7280.184	152619.4	230.645	-5821.8	1723581	555132.7	56495.88		78594.64	59224.23	41203.22	7280.184	152619.4	230.645	-5821.8	1723581	555132.7	56495.88		
12.7273	133.5497	86.4472	8.5028	145.0197		78982.57	57370.84	40713.61	8881.2	139971.3	367.73	230.2902	-4925.3	1760953	500285.3	51813.33		78982.57	57370.84	40713.61	8881.2	139971.3	367.73	230.2902	-4925.3	1760953	500285.3	51813.33
11.6732	118.4021	87.5038	7.6824	152.1743		68277.76	64385.35	42542.29	11056.04	127128.5	2522.675	229.6088	-5312.48	1802218	451719.7	47059.23		68277.76	64385.35	42542.29	11056.04	127128.5	2522.675	229.6088	-5312.48	1802218	451719.7	47059.23
11.7729	135.1167	86.9791	10.1596	132.4334		90295.35	84352.37	38255.26	8445.172	141973.7	71.0994	1270.632	-3949.43	1749186	507122.2	52554.27		90295.35	84352.37	38255.26	8445.172	141973.7	71.0994	1270.632	-3949.43	1749186	507122.2	52554.27
11.6238	159.2024	87.5856	9.0001	141.5124		87076.67	63246.51	39605.86	7189.157	157520	1027.188	231.0559	-5114.35	1706822	571583.5	58308.48		87076.67	63246.51	39605.86	7189.157	157520	1027.188	231.0559	-5114.35	1706822	571583.5	58308.48
12.2099	96.836	88.0821	9.2021	140.1139		59124.35	65828.07	42910.63	4767.292	110769.8	242.0819	228.9795	-4674.46	1853370	388081.6	41002.92		59124.35	65828.07	42910.63	4767.292	110769.8	242.0819	228.9795	-4674.46	1853370	388081.6	41002.92
11.1933	164.073	86.3309	8.4523	149.8511		72060.93	61494.42	41796.49	8663.397	160377.2	6663.482	231.1591	-5219.52	1698283	58326.3	59367.42		72060.93	61494.42	41796.49	8663.397	160377.2	6663.482	231.1591	-5219.52	1698283	58326.3	59367.42
11.3885	123.1584	86.2018	8.281	139.7915		75181.22	5797.68	40826.8	8348.114	133120.4	357.5945	385.7729	-4426.14	1780867	472266.1	49277.28		73979.31	58351.21	40973.2	8550.964	132988.8	306.322	313.3909	-4371.33	1779995	473173.9	49401.3
11.049	130.3064	86.2803	6.7492	152.9873		66847.08	65058.86	42714.56	12135.77	136817.2	4522.695	230.0899	-5154.54	1771333	488793.9	50646.27		66847.08	65058.86	42714.56	12135.77	136817.2	4522.695	230.0899	-5154.54	1771333	488793.9	50646.27
11.7663	97.4177	87.4122	7.5791	155.8856		63779.62	67033	43216.38	12078.06	109551.9	903.8607	228.7937	-5362.89	1858444	385202.1	40552.95		63779.62	67033	43216.38	12078.06	109551.9	903.8607	228.7937	-5362.89	1858444	385202.1	40552.95
11.7549	112.8188	86.9011	7.5168	143.2423		68148.37	62436.05	42040.57	7083.839	123541.9	613.1092	229.5119	-4992.08	1813001	436966.3	45731.58		68148.37	62436.05	42040.57	7083.839	123541.9	613.1092	229.5119	-4992.08	1813001	436966.3	45731.58
11.2729	113.6283	87.5347	9.0699	150.5665		63793.69	65560.16	42842.42	7549.625	123446	2524.791	229.4508	-5261.33	1813809	437424.8	45696.6		63793.69	65560.16	42842.42	7549.625	123446	2524.791	229.4508	-5261.33	1813809	437424.8	45696.6
12.3944	77.6073	87.1623	10.0173	139.2154		69132.43	60140.86	41445.48	8761.516	92908.63	81.2484	1510.545	-3867.19	1905749	322603.3	34391.7		59622.39	64753.74	42636.58	10497.63	92349.37	-244.418	778.5619	-3374.41	1901402	329165.4	35116.74
10.5314	102.6674	87.6411	7.6629	135.5389		67404.01	61271.6	41738.56	7106.342	116119.1	484.5057	560.7007	-4324.35	1834193	407792.2	42984.06		64816.92	62507.52	42059.05	7514.411	115881.2	360.1278	392.7371	-4202.74	1832600	408725.3	43222.56
12.4019	136.0611	86.0323	6.9956	158.5141		65209.91	66602.72	43107.39	9776.493	139055.1	6492.608	230.0423	-5790.16	1765640	500170.6	51474.66		65209.91	66602.72	43107.39	9776.493	139055.1	6492.608	230.0423	-5790.16	1765640	500170.6	51474.66
11.4085	112.6835	87.0436	6.5906	151.7598		71968.01	62950.26	42173.39	14369.31	123064.1	887.7891	229.4622	-5123.35	1814767	435543.1	45555.09		71968.01	62950.26	42173.39	14369.31	123064.1	887.7891	229.4622	-5123.35	1814767	435543.1	45555.09
11.8998	109.3047	86.9761	9.7653	148.1861		68150.07	62627.16	42089.97	10178.22	121673.9	299.2385	229.5306	-4614.86	1818257	428777	45039.93		68150.07	62627.16	42089.97	10178.22	121673.9	299.2385	229.5306	-4614.86	1818257	428777	45039.93
11.4214	83.7721	88.2941	6.2384	145.4319		61466.24	66894.35	43181.28	14178.22	99072.42	84.818	449.5981	-4393.84	1882923	344799.1	36673.33		63975.91	67839.4	42089.97	14584.58	98903.07	33.4408	338.5979	-4283.3	1888820	346029.3	36835.53
11.0329	103.8898	87.1513	9.6676	148.571		63947.25	64733.13	42631.31	7956.102	116414.8	703.8889	229.2062	-4866.65	1835545	409649.1	43093.77		63947.25	64733.13	42631.31	7956.102	116414.8	703.8889	229.2062	-4866.65	1835545	409649.1	43093.77
12.6163	120.2441	87.3001	8.5669	142.5697		72817.16	59892.93	41738.69	9032.787	130551.8	189.2467	229.9157	-4639.52	1790059	462670.9	48326.46		72817.16	59892.93	41738.69	9032.787	130551.8	189.2467	229.9157	-4639.52	1790059	462670.9	48326.46
12.5093	178.5038	86.2052	7.6149	156.6364		83348.81	58456.39	41000.97	11716.67	167244.5	6765.607	231.2987	-5837.24	1678810	616489.5	61908.24		80438.81	58456.39	41000.97	11716.67	167244.5	6765.607	231.2987	-5837.24	1678810	616489.5	61908.24
10.6044	122.5102	87.6847	7.3842	143.2699		74059.34	60153.23	41446.83	11955.51	132284.8	768.449	229.9921	-4661.98	1784618	469413.7	49867.23		74059.34	60153.23	41446.83	11955.51	132284.8	768.449	229.9921	-4661.98	1784618	469413.7	49867.23

Table 3

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres (million acres)	Corn yield draws (bushels per harvested acres)	10 lb Mandate, Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	CS of ethanol Blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters	Tax Credit and Tariff	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	CS of ethanol blenders	PS of Ethanol Producers	PS of Ethanol Exporters	Government Revenue	CS of Fuel users	PS of gasoline producers	PS of gasoline exporters
11.3268	116.7388	87.6046	8.7906	150.6585	66799.61	64361.49	42536.18	8576.931	125879.2	2272.991	229.5571	-5286.39	1806128	446828.6	46596.54	806799.61	64361.49	42536.18	8576.931	125879.2	2272.991	229.5571	-5286.39	1806128	446828.6	46596.54		
12.6563	147.0379	87.3569	9.4368	153.5272	80456.32	58684.86	41061.23	7685.945	146493.6	2855.977	230.3476	-5908.81	1742730	530565.2	54226.95	80456.32	58684.86	41061.23	7685.945	146493.6	2855.977	230.3476	-5908.81	1742730	530565.2	54226.95		
12.0856	110.3802	87.0646	8.7571	145.8751	68597.27	62373.36	42024.36	9829.992	122466	286.076	229.5327	-4653.86	1815800	431883.8	45332.49	68597.27	62373.36	42024.36	9829.992	122466	286.076	229.5327	-4653.86	1815800	431883.8	45332.49		
11.8775	116.9874	87.0093	8.096	154.8935	66641.23	65281.87	42771.47	9448.92	125333.8	284.208	229.4767	-5545.28	1808348	445576	46394.61	66641.23	65281.87	42771.47	9448.92	125333.8	284.208	229.4767	-5545.28	1808348	445576	46394.61		
11.2675	83.0025	87.3759	7.8705	151.1646	60900.47	67344.44	43295.13	15087.25	98343.48	288.7824	450.3081	-4393.13	1892298	342141.4	363403.05	58820.18	68282.74	43531.74	15515.47	98176.01	198.0228	337.7004	-4284.02	1891214	343365	36565.23		
12.2187	101.3913	86.2845	6.7679	155.6113	65041.79	66326.27	43037.25	9767.381	112329.5	1045.396	228.8727	-5613.93	1849939	396265	41581.88	65041.79	66326.27	43037.25	9767.381	112329.5	1045.396	228.8727	-5613.93	1849939	396265	41581.88		
11.2732	123.9676	86.9405	7.9042	139.8905	71541.22	59977.11	41400.74	5973.698	132696.3	771.4626	229.9538	-4916.32	1783289	471875.9	49119.87	71541.22	59977.11	41400.74	5973.698	132696.3	771.4626	229.9538	-4916.32	1783289	471875.9	49119.87		
11.2576	141.6664	88.7268	8.2544	143.657	82881.69	56467.09	40473.07	11732.05	145759.3	954.772	230.5452	-4982.53	1742977	523418.2	53955.06	82881.69	56467.09	40473.07	11732.05	145759.3	954.772	230.5452	-4982.53	1742977	523418.2	53955.06		
11.1818	130.034	87.2251	6.6236	155.4369	63866.19	67180.17	43253.61	11630.68	135503.3	5867.848	229.9464	-5513.19	1776197	485015.4	50159.73	63866.19	67180.17	43253.61	11630.68	135503.3	5867.848	229.9464	-5513.19	1776197	485015.4	50159.73		
10.3518	95.412	86.9008	7.6477	147.9789	66268.75	64230.22	42502.54	14085.79	109774.5	931.9217	453.1035	-4389.12	1855156	384135.7	40635.63	64261.64	65063.82	42715.82	14462.12	109600.1	429.0387	342.6373	-4291.42	1854008	385392.4	40802.58		
11.7628	210.4159	86.7915	7.6384	146.12	78585.72	58336.3	40969.26	7205.791	187113.2	9975.246	232.3056	-5483.99	1617960	701082.9	69263.58	78585.72	58336.3	40969.26	7205.791	187113.2	9975.246	232.3056	-5483.99	1617960	701082.9	69263.58		
12.2355	146.5746	88.5222	6.945	151.659	56655.09	70107.77	43989.15	7396.458	146834.8	10060.51	230.4125	-5710.99	1741236	531010.3	54354.15	56655.09	70107.77	43989.15	7396.458	146834.8	10060.51	230.4125	-5710.99	1741236	531010.3	54354.15		
12.4768	91.4135	88.3918	5.8132	136.5247	57685.46	67077.82	43227.72	6592.02	106231.5	123.8836	228.7915	-4537.12	1867819	370985.8	39323.88	57685.46	67077.82	43227.72	6592.02	106231.5	123.8836	228.7915	-4537.12	1867819	370985.8	39323.88		
12.0658	145.1169	87.5564	8.1546	152.7047	84321.08	57539.62	40758.4	11975.27	146092.6	1893.356	230.3998	-5627.59	1743357	527626.5	54079.08	84321.08	57539.62	40758.4	11975.27	146092.6	1893.356	230.3998	-5627.59	1743357	527626.5	54079.08		
12.8613	146.3808	85.6193	8.3993	143.3178	90802.34	51461.78	39118.13	13612.64	150509.6	19.3775	515.1317	-4342.99	1725678	50569.5	551713.6	88779.5	52328.55	39355.66	14042.5	150267.3	-42.5797	389.6246	-4253.89	1742002	542220.2	55942.56		
12.6905	97.098	87.0899	6.9209	144.5554	67847.83	63158.55	42227.09	12806.1	111277.4	52.2972	451.5585	-4389.74	1850311	389709	41192.13	65949.99	64018.18	42448.15	13179.43	111096.6	1.4543	345.5882	-4287.55	1849107	390988.1	41262.26		
10.8756	203.9674	86.8091	8.6386	152.2868	79368.94	58978.65	41138.62	13564.63	185246.1	9281.618	232.3524	-5067.23	1622385	689421.4	68571.93	79368.94	58978.65	41138.62	13564.63	185246.1	9281.618	232.3524	-5067.23	1622385	689421.4	68571.93		
10.8764	105.1679	86.3275	7.4953	146.8229	63315.89	65190.49	42748.16	7153.242	117032.3	1119.631	229.1996	-5043.85	1833880	412448.5	43321.14	63315.89	65190.49	42748.16	7153.242	117032.3	1119.631	229.1996	-5043.85	1833880	412448.5	43321.14		
12.3977	153.757	86.8285	7.1709	146.3527	86242.9	55245.13	40145.92	7699.189	151871.2	1466.798	230.6476	-5681.74	1725573	551347.3	562173.63	86242.9	55245.13	40145.92	7699.189	151871.2	1466.798	230.6476	-5681.74	1725573	551347.3	562173.63		
11.006	90.4821	87.8227	8.5263	142.4453	70948.73	60946.27	41653.87	11614.73	115951.3	354.9381	582.3278	-4311.98	1834631	407171.7	42922.05	68024.9	62283.78	42001.18	12179.37	15699.9	244.4311	403.2923	-4182.31	1832940	409060.9	43174.86		
10.4807	90.4013	89.037	8.985	142.4439	64969.74	64003.38	42444.35	11249.64	105189.2	440.9736	610.6711	-4298.73	1869247	367252.2	38937.51	61966.52	65424.92	42807.95	11826.29	104918.2	295.0527	417.1971	-4131.46	1867416	369300.4	39209.4		
11.3912	116.8827	88.0819	8.3908	151.2281	73735.34	61744.28	41861.37	13950.9	126748.3	800.209	229.6539	-5023.58	1802869	449318.6	46917.72	64119.18	65996.98	42851.8	8283.774	115409.4	1110.138	229.0841	-5249.27	1839439	406889.4	42721.71		
11.3389	103.8946	86.1498	8.498	153.1143	80461.38	58683.98	40578.85	9970.633	145977.7	1237.06	230.5732	-4911.19	1742138	523981.7	54036.15	80461.38	58683.98	40578.85	9970.633	145977.7	1237.06	230.5732	-4911.19	1742138	523981.7	54036.15		
10.243	150.8401	86.5889	7.3571	147.1165	66331.5	64019.2	42448.41	10506.12	152722.3	6215.164	230.923	-4773.77	1720854	550384.7	56532.45	66331.5	64019.2	42448.41	10506.12	152722.3	6215.164	230.923	-4773.77	1720854	550384.7	56532.45		
12.4826	150.9703	85.8866	8.3018	145.6306	77020.26	58218.96	40938.26	3435.955	149477.1	3089.221	230.5023	-5826.83	1733033	542396.2	55332	70220.26	58218.96	40938.26	3435.955	149477.1	3089.221	230.5023	-5826.83	1733033	542396.2	55332		
10.5751	118.4155	86.829	6.7651	151.9639	64765.55	65699.35	42946.57	12712.68	127998.8	3406.034	229.7136	-5015.57	1798887	454092.2	47382	64765.55	65699.35	42946.57	12712.68	127998.8	3406.034	229.7136	-5015.57	1798887	454092.2	47382		
10.7867	123.9286	86.5303	7.7706	145.4011	77618.48	56127.97	40382.51	7913.143	134592.7	281.5148	513.0233	-4347.89	1775579	478012.4	49822.65	77618.48	56127.97	40382.51	7913.143	134592.7	281.5148	513.0233	-4347.89	1775579	478012.4	49822.65		
11.0518	114.9857	88.4388	9.2621	147.5215	69692.42	62573.38	42076.08	9496.804	125134.9	1027.865	229.5729	-5052.85	1808049	443233.3	46321.47	69692.42	62573.38	42076.08	9496.804	125134.9	1027.865	229.5729	-5052.85	1808049	443233.3	46321.47		
11.9016	116.5573	86.9308	8.8388	148.4721	69835.31	62269.46	41997.47	6699.316	125526.3	965.7234	229.5254	-5358.89	1807385	445707.5	46466.16	69835.31	62269.46	41997.47	6699.316	125526.3	965.7234	229.5254	-5358.89	1807385	445707.5	46466.16		
10.3074	110.5782	85.9178	6.6313	141.268	71915.24	60231.9	41467.41	10721.56	122869.9	609.0579	478.4148	-4371.16	1812971	433164.1	45481.95	69553.61	61129.93	41701.7	11087.3	122681.7	498.8464	354.9061	-4284.58	1811722	343535.3	45667.98		
11.5379	97.7136	87.9825	8.0075	150.1703	63344.81	66230.17	43012.85	11133.01	110813.3	576.8167	428.9266	-4965.08	1852971	389937.1	41020.41	63344.81	66230.17	43012.85	11133.01	110813.3	576.8167	428.9266	-4965.08	1852971	389937.1	41020.41		
11.6213	107.1751	86.1219	8.4206	147.9628	66932.74	63260.92	42253.46	9970.295	119825.6	366.6502	229.4126	-4635.05	1824204	412858.8	44356.23	66932.74	63260.92	42253.46	9970.295	119825.6	366.6502	229.4126	-4635.05	1824204	412858.8	44356.23		
11.143	122.5561	86.1165	8.4876	157.9629	66889.55	65267.17	42767.73	12672.2	130728.8	3609.356	229.7991	-5199.45	1790608	465240.7	48391.65	66889.55	65267.17	42767.73	12672.2	130728.8	3609.356	229.7991	-5199.45	1790608	465240.7	48391.65		
11.8031	180.4693	86.9074	8.445	150.8843	93671.08	52852.47	39498.63	12345.35	169709	3163.803	231.5059	-5505.02	1670477	624884.1	62820.9	93671.08	52852.47	39498.63	12345.35	169709	3163.803	231.5059	-5505.02	1670477	624884.1	62820.9		
11.8001	140.7456	87.8448	6.6771	149.9971	71102.18	62464.56	40407.95	8099.07	143385.9	4462.472	230.3067	-5506.79	1751519	516222.1	53077.38	71102.18	62464.56	40407.95										

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
11.9583	152.9894	87.1341	8.6231	146.3147		7.4647	2.8727	3.5435	11487.32	4882.652	1313.48	1817.92	4238.264	833	11646.1	284.3655	0.9739	113088.5	140918.9	11930.47	128988.5	137078.5	3.4469
11.4239	163.3341	87.0546	6.7237	150.9295		5.2707	2.9879	3.7134	12124.3	5358.016	1360.695	1950.652	4154.129	898.8136	11423.86	284.7748	1	112331.7	139940.3	11708.63	128231.7	136171.3	3.6134
11.4443	149.9189	88.127	7.5047	150.8742		5.8505	2.8445	3.5018	12083.19	5232.401	1348.218	2092.519	4161.56	846.4951	11444.29	284.3006	1	113436.9	141065.5	11728.59	129336.9	137290.1	3.4081
11.3364	136.1827	86.5199	5.7752	153.3275		4.4045	2.6923	3.2774	12380.4	5545.694	1379.335	1954.044	4122.342	976.9811	11336.45	283.8145	1	114692.6	142212.9	11620.26	130592.6	138472.3	3.1912
12.8	99.2681	87.5748	8.1007	159.2085		5.212	2.2117	2.5687	12655.92	5370.728	1361.957	2180.764	4433.393	904.1082	12170.52	282.1494	0.9508	117904.2	146256.9	12452.67	133804.2	142248.3	2.4983
11.7736	113.0136	86.3878	8.0787	150.7896		5.8614	2.4078	2.8578	11808.2	5230.032	1347.983	1825.718	4156.962	845.5082	11421	282.8687	0.9701	116858.9	144462.8	11703.87	132758.9	140695.3	2.7832
11.7586	115.1016	87.1555	7.8383	146.3649		6.092	2.449	2.9186	11609.26	5180.073	1343.021	1935.365	3915.799	833	10729.2	283.0829	0.9125	116982.2	143894.5	11012.28	132882.2	140349.6	2.8467
11.1253	127.8315	87.3143	9.4343	152.7877		5.2189	2.5984	3.1389	11899.1	5369.247	1361.81	1816.974	4045.579	903.4915	11125.34	283.5313	1	115560.4	142869.3	11408.87	131460.4	139196.8	3.0582
12.5893	108.4641	86.3481	8.7833	147.8801		5.9975	2.3908	2.8225	11470.29	5200.536	1345.053	2127.95	3561.531	833.2232	9669.254	296.2977	0.7681	118163.7	144029.3	9965.552	134063.7	140821.3	2.7601
11.3259	99.1687	86.5105	6.3849	156.2256		4.5714	2.2264	2.5903	12517.66	5509.52	1375.743	2149.986	4118.501	961.915	11325.88	283.2823	1	118337	145845.2	11608.16	134237	142108.5	2.5239
11.469	87.5073	86.4488	8.2209	154.1176		5.4084	2.2258	2.4066	12056.29	5328.188	1357.732	2859.797	3222.18	886.3901	8744.382	523.5795	0.7624	120788.4	145956.4	9267.962	136688.4	142973	2.3653
11.3645	169.6962	86.7296	6.8881	152.8107		4.7059	3.0547	3.8119	12200.64	5480.389	1372.849	1863.07	4132.552	949.7821	11364.53	285.003	1	111848.9	139398.4	11649.54	127748.9	135648.5	3.7093
12.0458	84.6083	87.547	8.1544	151.569		4.9358	2.0962	2.3327	12033.45	5430.585	1367.902	2458.392	3445.53	929.0384	9360.373	368.5482	0.7771	120909.3	146538.2	9728.921	136809.3	143406.5	2.2588
10.1071	124.6086	85.9845	7.673	146.0215		6.35	2.5828	3.1157	11435.16	5124.171	1337.468	2075.031	3663.485	833	10074.01	283.6071	0.9967	116356.9	142614.5	10357.62	132256.9	139280.4	3.0429
11.9709	132.802	89.1156	9.6872	141.4731		6.9603	2.6783	3.2566	11236.98	4991.943	1324.335	1935.94	3749.761	833	10240.38	283.9074	0.8554	115502.6	149126.9	10524.28	131402.6	138539.1	3.1789
11.0437	108.8207	87.3058	7.7581	146.1915		5.704	2.3665	2.7969	11629.19	5264.125	1351.369	1829.346	3922.646	859.7081	10779.73	282.803	0.9761	117594.9	144557.4	11062.53	133494.9	140996.4	2.728
11.2702	104.1105	86.029	6.7611	145.1122		5.6678	2.3205	2.729	11502.74	5217.972	1352.148	1981.255	3632.391	862.9762	9935.481	282.7398	0.8816	118500.4	144618.6	10218.22	134400.4	141329.3	2.6689
10.5393	133.1261	86.705	7.8298	146.3803		6.7908	2.6809	3.2604	11545.78	5028.667	1327.983	2207.886	3746.243	833	10295.24	283.9091	0.9768	115447.4	141926.5	10579.15	131347.4	138521.1	3.1822
10.9558	109.9318	87.7584	8.7694	153.9683		5.6534	2.3782	2.8142	12161.82	5275.098	1352.459	2297.09	3970.896	864.2782	10191.33	282.8267	0.9967	117413.2	144515.3	11202.16	133313.2	140909.4	2.744
9.9937	177.0325	88.2515	9.0767	147.0674		6.7215	3.1662	3.9761	11644.03	5043.668	1329.473	2401.808	3634.082	833	9993.726	285.5819	1	111843.5	138022.8	10279.31	127743.5	134713.9	3.8808
12.4104	145.0299	88.3342	7.6677	147.8774		6.8434	2.7665	3.3869	11928.75	5017.268	1326.851	1715.972	4512.855	833	12410.35	283.9171	1	113428.5	142022.8	12694.27	129328.5	137936.5	3.2895
12.0061	116.6781	86.8833	7.373	147.6872		6.0006	2.4491	2.9187	11742.64	5199.87	1344.987	1715.972	4246.815	833	11668.71	283.9171	0.9719	116376.8	144228.5	11951.68	132276.8	140381.3	2.8409
10.1048	143.577	87.7924	6.6117	152.8616		4.7999	2.7607	3.4464	12409.41	5460.03	1370.827	2560.796	3674.455	941.3026	10104.75	284.3572	1	114582.4	140871.5	10389.11	130482.4	137527.2	3.3646
10.8804	141.6064	86.2578	7.674	147.1118		6.6729	2.8565	3.3855	11560.61	5054.209	1330.52	1984.381	3956.5	833	10880.38	284.1159	1	114411.5	141476	11164.49	130311.5	137882.2	3.2994
10.5609	94.3043	87.204	7.2653	153.5669		4.0355	2.1732	2.5118	12275.14	5625.644	1387.277	2009.598	3840.342	1010.282	10560.94	282.1819	1	119249.4	145992.6	10843.12	135149.4	142502.2	2.4507
11.8791	180.0623	87.8598	8.2665	155.8889		5.7289	3.942	3.942	11850.49	5258.744	1350.835	1661.768	4319.675	857.4667	11879.11	285.2142	1	110837.3	138901.6	12164.32	126737.3	134985.9	3.8139
11.4356	85.5288	87.3362	8.7831	146.6984		5.2274	2.1774	2.3613	11523.61	5367.403	1361.627	2224.01	3265.85	902.7235	8871.423	288.9885	0.7758	120975.9	146236.3	9360.412	136875.9	143223.2	2.3194
10.6401	173.462	88.0266	10.8571	144.7205		7.4027	3.1125	3.8971	11168	4896.072	1314.813	1852.979	3869.141	833	10640.14	285.3002	1	111855.3	138680.7	10925.44	127755.3	135163.8	3.7983
12.3264	139.7693	86.3807	7.8602	157.8749		5.1917	2.7097	3.3031	12396.42	5375.141	1362.396	1868.604	4482.334	905.9464	12326.42	283.7445	1	113924.2	142434.4	12610.17	129824.2	138375.2	3.209
11.944	155.492	87.4509	6.5588	136.8982		7.6086	2.904	3.5896	11073.99	4851.476	1310.384	1498.351	4178.78	833	11476.62	284.4915	0.9609	112952.7	140613.8	11671.11	128852.7	136827.9	3.4929
10.1062	148.4063	86.6867	6.7249	146.8031		6.361	2.8614	3.5266	11738.63	5121.78	1337.231	2369.637	3674.986	833	10106.22	284.5399	1	114155.8	140446.6	10390.76	130055.8	137101.8	3.4426
10.8409	86.4078	88.0434	8.1705	133.5694		5.8209	2.3347	2.3984	10668.58	5238.797	1348.854	1932.291	2897.479	849.1591	7840.17	746.7212	0.7232	1121241	145727.9	8586.891	137141	142963.8	2.3667
10.8735	129.2615	87.377	8.6068	139.888		7.0994	2.7176	3.2199	11019	4961.787	1321.34	2092.831	3408.045	833	9307.479	280.0359	0.856	116190	141806.5	9716.515	132090	136878.7	3.1533
9.9657	117.792	86.4761	7.8994	155.1041		4.3675	2.4996	2.9931	12187.57	5553.707	1380.131	2247.517	3623.895	980.3189	9965.714	283.3401	1	117077.4	143226.5	10249.05	132977.4	139927.3	2.9242
12.3407	152.4788	88.8861	9.3364	150.4917		6.4066	2.8494	3.5093	11971.58	5111.91	1336.251	1800.879	4487.541	833	12340.74	284.1945	1	112827.7	141352.7	12624.94	128727.7	137288.7	3.4083
11.7447	154.8728	87.8704	8.1996	149.0254		6.1229	2.8904	3.5696	11827.97	5173.376	1342.356	1851.423	4270.816	833	11744.75	284.4098	1	112887.9	140817.1	12029.16	128787.9	136944.9	3.4714
11.0418	147.5687	87.4413	10.4328	142.7783		6.2615	2.8315	3.4826	10995.15	4927.673	1317.952	1539.61	3974.915	833	10928.38	284.3279	0.9897	113866.6	140979.3	11212.71	129766.6	137369.9	3.3934
11.8052	115.7525	85.4864	7.3032	146		6.1141	2.456	2.9288	11414.75	5175.27	1342.544	1722.537	3939.396	833	10794.99	283.9084	0.9144	116885.8	143863.8	11078.09	132785.8	140297.8	2.8562
11.9967	155.4467	86.7981	9.0394	149.6799		6.1882	2.89	3.5691	11638.92	5159.215	1340.949	1541.328	4362.43	833	11996.69	284.3735	1	112730.8	140911.9	12281.07	128630.8	136958.6	3.4689
12.743	132.3054	86.5628	9.0817	146.9178		6.8229	2.6481	3.2122	11383.36	5071.694	1327.29	1674.527	4124.846	833	11285.58	283.6754	0.8863	115070	142539.2	11569.25	130970	138815.1	3.1283
11.0493	133.3312	87.1861	8.2682	148.5141		6.5736	2.6658	3.2383	11720.42	5025.724	1332.657	2061.104	4015.934	833	11043.76	283.7643	0.9995	115086.3	142313.8	11327.52	130986.3	138667.5	3.1553
10.2935	124.4551	87.3197	8.2773	146.346		5.7687	2.576	3.1057	11567.55	5250.108	1349.977	1968.489	3743.102	853.87	10293.53	283.5578	1	116269.9	142746.3	10577.09	132169.2	139341.6	3.0317
12.1749	134.2981	87																					

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
11.4387	133.5836	85.8	10.0001	142.2917		7.3868	2.786	3.2985	10785.69	4899.537	1315.157	1949.14	3386.861	833	9219.565	438.6422	0.806	1158003.9	141362.1	9658.208	131703.9	138253.2	3.2314
11.2909	134.4264	86.4662	8.0572	146.7831		6.8156	2.6813	3.2611	11509.11	5023.28	1327.448	1943.61	3979.775	833	10933.44	283.8295	0.9683	115036.1	142153.3	11217.27	130936.1	138542.5	3.1783
12.3448	94.2918	88.0574	8.3893	153.4832		4.9161	2.1441	2.4691	12227.72	5434.854	1366.326	1675.966	4415.756	930.8166	12137.89	281.9335	0.9832	118452.3	146772.4	12419.84	134352.3	142774.2	2.4018
11.522	102.6506	86.4468	9.0971	154.9308		5.5604	2.2934	2.689	11983.85	5295.257	1354.461	2293.088	3766.367	872.6746	10309.75	282.8092	0.8948	118470.9	144963.3	10592.36	134370.9	141553.6	2.6258
11.9816	90.1382	88.1987	8.2399	139.0685		4.5679	2.2399	2.4601	11119.76	5315.284	1356.45	1869.711	3295.295	881.0157	8931.617	480.4573	0.7454	120416.9	145729.9	9412.075	136316.9	142699.3	2.4155
11.3318	150.5606	87.4925	7.4931	148.4865		6.5896	2.8543	3.5164	11878.82	5072.257	1332.312	2118.589	4120.666	833	11331.83	284.3484	1	113431.6	140947.8	11616.18	129331.6	137208.5	3.4231
12.0268	114.3755	86.83	7.5139	144.6929		6.1565	2.4507	2.9209	11476.48	5166.093	1341.632	1993.985	3739.769	833	10208.88	283.1475	0.8488	117304.4	143696.4	10492.03	133204.4	140319.1	2.8523
11.9731	118.1493	87.8161	8.0792	152.828		6.0844	2.4696	2.9491	12186.02	5181.717	1343.184	2214.036	4212.084	833	11570.75	283.0549	0.9664	116279.5	144033.3	11853.8	132179.5	140217.5	2.8709
10.9321	110.0465	87.9316	9.2023	153.7706		5.6234	2.3797	2.8164	12106.26	5281.6	1353.105	2231.261	3971.309	866.9863	10920.95	282.8313	0.999	117400.7	144504.5	11203.79	133300.7	140898	2.7461
11.5695	91.8763	87.462	7.7021	148.4997		5.2874	2.1998	2.489	11844.32	5354.406	1360.336	2380.178	3450.959	897.3101	9395.579	364.1883	0.8121	120058.1	145717.8	9759.768	135958.1	142576.2	2.4381
10.7416	118.1953	87.1054	6.4937	155.382		4.3009	2.4881	2.9762	12525.6	5568.139	1381.565	2281.547	3906.024	986.33	10741.57	283.2113	1	116669	143593.8	11024.78	132569	140044.9	2.9026
10.882	149.853	87.1906	9.2539	145.3436		6.711	2.8579	3.5216	11327.59	5045.95	1329.699	1759.843	3957.1	833	10882.03	284.4219	1	113689.5	140756	11166.45	129589.5	137161.5	3.4317
12.4393	125.9952	88.2067	7.4742	142.4299		6.4921	2.5674	3.0932	11498.72	5093.382	1334.41	1635.271	4200.654	833	11517.8	283.3151	0.9259	115551.1	143252.2	11801.18	131451.1	139453.4	3.0111
10.4292	116.4322	87.8941	10.5202	140.5909		6.8146	2.6347	2.993	10782.86	5023.506	1327.47	2063.557	3228.527	833	8811.056	546.8628	0.8448	117602.2	142860.2	9357.919	133502.2	139847.8	2.9388
11.3933	162.7228	86.6594	8.542	150.5787		4.964	2.9824	3.7052	11677.81	5424.457	1367.294	1499.553	4143.024	926.4864	11393.32	284.761	1	112394.1	139972.2	11678.08	128294.1	136213	3.6057
11.7718	125.0085	86.932	6.1261	142.5541		6.8346	2.6318	3.139	11527.93	5019.177	1327.04	2456.686	3490.37	833	9501.145	348.4345	0.8071	116546	142295.5	9849.579	132446	139125	3.0714
11.8615	121.4295	87.4704	9.1433	152.3173		6.4571	2.5391	3.0514	11930.58	5109.969	1335.164	2053.972	3755.473	833	10262.1	283.438	0.8652	116577.9	143023.5	10545.54	132477.9	139628.9	2.9789
11.9915	101.8192	86.3179	6.5872	158.1996		5.3454	2.2573	2.6358	12613.37	5341.836	1359.088	2398.802	4219.569	892.0748	11591.42	282.3566	0.9666	117924	145697.7	11873.78	133824	141875.6	2.5667
11.6593	105.6823	87.648	7.7307	138.1598		5.7626	2.3412	2.7594	11041.36	5251.442	1350.109	1534.395	3648.99	854.4257	9694.687	282.8062	0.8547	118319.7	144467.2	10247.49	134219.7	141168.6	2.6964
11.8301	160.9208	87.2729	6.2844	148.0593		7.0334	2.9521	3.6605	11694.99	4976.104	1322.762	1859.25	4301.87	833	11830.15	284.599	1	112353.6	140368.4	12114.74	128253.6	136468.6	3.5588
11.6039	124.2022	88.3414	9.8485	145.9672		6.4833	2.6373	3.0876	11443.68	5095.285	1334.599	1873.426	3905.373	833	10706.37	283.4669	0.9226	116100.7	142990.5	10989.84	132000.7	139452.9	3.0112
11.5947	174.6319	88.29	8.658	148.7926		5.5752	3.5938	3.8754	11862.58	5292.032	1354.141	1726.822	4216.258	871.3314	11594.71	285.11	1	111368.1	139147.9	11879.82	127268.1	135323.8	3.7689
11.6927	147.0392	86.3737	9.7006	148.65		7.2986	2.8171	3.4614	11397.45	4918.64	1317.055	1823.281	4103.479	833	11271.27	284.2339	0.964	113760.7	141216.2	11555.51	129660.7	137496.5	3.3702
11.6634	121.1026	87.5927	7.1721	147.0057		5.8639	2.5043	3.0002	11822.28	5229.479	1347.928	1756.368	4241.229	845.2778	11663.38	283.1578	1	115949.2	143795.7	11946.54	131849.2	139950.2	2.92
12.4464	155.3477	86.9304	7.1422	137.7433		7.6044	2.8943	3.5754	10990.3	4852.373	1310.473	1297.41	4295.408	833	11788.77	284.4165	0.9472	112829.3	140802.5	12073.18	128729.3	136916.1	3.4767
11.6437	138.7649	87.4177	9.3447	155.2553		4.6593	2.7147	3.3105	12121.25	5490.487	1373.852	1666.866	4234.957	953.9877	11643.66	283.8487	1	114321.4	142148.9	11927.51	130221.4	138309.4	3.2221
10.6236	119.3461	86.3556	7.9576	149.8035		6.2356	2.5129	2.6128	11745.49	5148.951	1339.93	2284.343	3736.662	833	10262.95	283.3501	0.966	116782.3	143228.6	10546.3	132682.3	139837.3	2.9413
11.3716	183.5952	88.5674	10.1209	155.0799		5.3892	3.1914	4.0134	12166.47	5332.344	1358.145	2094.742	4135.118	888.1214	11371.58	285.4515	1	110779.8	138336.8	11657.03	126679.8	134584.4	3.9046
11.3678	154.3794	87.6199	6.7339	155.129		5.3151	2.8948	3.5761	12547.75	5348.406	1359.74	2409.064	4133.729	894.8109	11367.76	284.4767	1	113093	140645.2	11652.23	128993	136894.4	3.4807
10.4644	96.1184	87.5851	6.8274	155.1956		4.5864	2.2004	2.5519	12533.24	5506.276	1375.42	2483.747	3805.233	960.5639	10464.39	282.2823	1	119098.8	145745.5	10746.67	134998.8	142286.1	2.4913
11.4245	138.0901	85.9638	8.595	140.4433		7.2434	2.7562	3.3672	10865.93	4930.6	1318.242	1829.54	3552.552	833	9697.818	289.889	0.8489	115257.1	141144.8	9987.707	131157.1	137929.8	3.2907
11.4449	83.0991	86.9952	8.9887	145.8008		5.5221	2.2505	3.2327	11377.31	5302.451	1355.176	2461.401	2980.615	875.6709	8052.868	283.9434	0.7036	121562.6	146199.4	8736.812	137462.6	143387.1	2.2893
11.9303	93.1233	86.7532	9.2162	151.181		5.4013	2.2269	2.5165	11722.12	5329.709	1357.883	2310.981	3434.526	887.0239	9333.996	380.7062	0.7824	119398.1	145552.8	9714.702	135838.1	142425.6	2.4658
11.9051	77.8798	87.2212	8.9866	157.3325		4.0928	1.9129	2.128	12308.85	5613.235	1386.044	1608.341	4294.116	1005.112	11806.66	281.2106	0.9917	120473.3	148461.2	12087.87	136373.3	144570.1	2.0722
10.4863	102.1424	87.8768	9.5716	145.638		5.5632	2.3024	2.6962	11404.21	5294.643	1354.4	1947.104	3533.648	872.4189	9687.916	290.6138	0.9239	118827.7	144706.2	9978.53	134727.7	141494.1	2.6367
11.9219	106.9806	86.5398	7.8499	159.6824		4.8469	2.3193	2.2774	12565.4	5449.845	1369.815	2071.445	4335.237	937.0606	11921.91	282.5428	1	117225.9	145330.4	12204.43	133251.9	141401.8	2.6536
11.8378	137.3014	87.7599	7.5896	156.7828		4.7541	2.6933	3.2789	12577.32	5469.954	1371.813	2083.47	4304.647	945.4357	11837.78	283.7537	1	114364.4	142385.9	12121.53	130264.4	138484	3.189
10.8985	82.915	87.9279	9.4036	152.6842		4.8096	2.0734	2.2957	11989.42	5457.911	1370.617	2399.552	3418.916	940.4201	9337.633	372.883	0.8568	121117.3	146727.8	9710.516	137017.3	143602	2.2499
12.6333	159.3074	87.4629	6.5899	149.5003		5.2914	3.6046	4.2090	12509.54	5266.044	1351.56	1616.485	4593.940	860.5071	12633.34	284.3624	1	112139.3	140957	12917.7	128039.3	136798.8	3.4982
10.0529	130.1511	87.5016	6.7197	140.3492		5.5037	2.6509	3.2162	11337.68	5307.542	1355.681	1739.071	3655.59	877.7912	10052.88	283.8389	1	115837.1	142073.9	10336.72	131737.1	138746.5	3.1409
11.1681	180.64	87.5742	8.7298	148.6027		5.962	3.1687	3.9799	11717.49	5208.23	1354.817	1862.904	4061.109	836.4276	11168.05	285.4083	1	111084.9	138438.4	11453.46	126984.9	134751.5	3.8739
10.5519	104.8458	88.3339	8.413	144.2275		5.8429	2.3739	2.7548	11526.79	5234.04	1348.381	2238.846	3456.346	847.1777	9462.157	352.7316	0.8967	118610.5	144325.3	9814.889	134510.5	141165.9	2.6969

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
10.3838	113.4266	87.8958	9.1481	134.1859		7.1713	2.719	2.9507	10566.83	4946.224	1319.794	2106.714	2959.098	833	8037.139	767.0652	0.774	118148.4	142852.6	8804.204	134048.4	140018.6	2.9074
11.3876	105.1845	87.58	7.2221	143.8808		5.7511	2.3385	2.7555	11561.97	5253.927	1350.356	2126.225	3574	855.4604	9761.445	282.819	0.8572	118472	144416.3	10044.26	134372	141183	2.6938
10.9946	146.4391	88.0625	8.8426	143.0626		7.1933	2.8192	3.4645	11333.41	4941.46	1319.321	1867.196	3970.434	833	10917.66	284.2887	0.9929	113969.6	141070.9	11201.35	129869.6	137465.2	3.376
12.3718	99.9173	88.4058	7.8711	147.6515		5.3914	2.2435	2.6155	11891.07	5331.864	1358.097	1903.77	4007.422	887.9213	10964.24	282.3755	0.8662	118437.5	145584.1	11246.62	134337.5	141963.8	2.5505
13.0786	102.3081	85.7222	8.129	155.1986		5.5075	2.2705	2.6553	12042.37	5306.704	1355.598	1983.02	4117.606	877.4421	11248.13	282.4355	0.86	118042.7	145473.3	11530.57	133942.7	141761.6	2.5876
10.7289	124.5248	86.8604	10.1953	139.7397		7.2051	2.739	3.1437	10713.15	4938.887	1319.065	1980.962	3239.238	833	8827.657	551.3753	0.8228	116785.6	142064.6	9379.032	132685.6	139045.5	3.086
12.7867	164.6814	87.0423	7.4474	146.0495		7.6884	2.9673	3.6831	11624.8	4834.171	1308.665	1623.099	4623.861	833	12714.17	284.5219	0.9943	111674.7	140573.4	12998.69	127574.7	136389.1	3.5734
11.5523	116.8939	89.2082	8.7537	143.8135		6.3578	2.5042	2.9853	11570.44	5122.484	1337.301	2337.492	3538.167	833	9650.232	302.6327	0.8354	117305.4	143158.2	9952.865	133205.4	139954.4	2.9192
11.6343	90.4226	87.2677	7.7602	158.6643		4.9779	2.1245	2.44	12615	5421.456	1366.996	2771.872	3727.44	925.2362	10192.15	282.0547	0.876	119870	146244.2	10474.2	135770	142872.5	2.3837
10.7477	168.5108	86.6556	8.0567	146.3281		5.7223	3.0594	3.8188	11501.24	5260.168	1350.976	1721.762	3908.27	858.0601	10747.74	285.1103	1	112201.8	139134.7	11032.85	128101.8	135583.2	3.7213
11.0264	121.2128	86.6914	6.6038	147.5101		5.3875	2.5197	3.0228	11813.74	5332.714	1358.182	1822.983	4009.588	888.2753	11026.37	283.2829	1	116239.1	143448.7	11309.65	132139.1	139808.1	2.946
11.2843	176.3616	87.6508	9.1411	147.5998		5.7349	3.1235	3.9133	11588.01	5257.441	1350.705	1617.58	4103.365	856.9241	11284.26	285.2416	1	111363.5	138833	11569.5	127263.5	135108.8	3.8084
12.2108	101.7231	86.7903	9.6164	147.5533		6.1844	2.4348	2.7047	11387.25	5160.038	1341.031	2407.152	3244.029	833	8774.783	537.679	0.7186	119168.6	144381	9312.462	135068.6	141383.4	2.657
11.3099	117.2597	86.9026	8.2589	147.3915		5.1696	2.4641	2.9408	12373.92	5379.919	1362.87	2208.502	4112.695	907.9363	11309.91	283.0665	1	116490.8	143983.8	11592.98	132390.8	140252	2.8646
12.8761	100.5863	86.9322	5.2771	156.3473		5.4918	2.2593	2.6387	12003.08	5310.119	1355.937	2159.748	3896.411	878.8645	10620	282.463	0.8248	118537.4	145339.8	10902.46	134437.4	141830.3	2.575
11.7119	101.2689	87.6887	7.7385	152.771		4.269	2.2475	2.6215	1224.07	5575.04	1382.25	1606.71	4258.87	989.2041	11771.89	282.3124	1	117922	145816.2	11994.21	133822	141955.3	2.5521
11.231	165.1776	87.2348	9.2489	143.994		7.7577	3.0122	3.7491	11229.51	5035.827	1328.694	1545.976	4084.012	833	11231.89	284.8826	1	1122694.9	139680.9	11515.92	128164.9	139573.9	3.6496
11.7586	84.3019	85.746	6.2075	159.1632		4.406	2.0097	2.2708	12659.6	5545.372	1379.303	2099.499	4256.58	976.8475	11704.57	281.5355	0.9954	119783.9	147670	11986.11	135683.9	143811.7	2.2114
11.121	184.975	86.4991	6.0097	149.6921		5.7359	3.2118	4.0435	12048.63	5257.215	1350.683	2137.91	4043.994	856.8302	11120.99	281.5558	1	110778.6	138085.1	11406.54	126678.6	134413.4	3.936
11.2957	127.4276	87.7888	7.0462	154.9662		3.786	2.5897	3.1261	12512.37	5679.689	1392.644	1897.715	4107.53	1032.791	11295.72	283.4818	1	115519.4	142998.6	11579.21	131419.4	139271.2	3.0446
12.1795	116.186	87.5457	6.9431	157.1553		5.6498	2.432	2.8936	12667.13	5275.867	1352.535	2343.233	4428.901	864.5984	12179.48	282.8629	1	116180.9	144543.3	12462.34	132080.9	140531.7	2.8133
10.3953	121.4083	87.8331	8.0214	155.0915		3.7601	2.5359	3.0467	12378.12	5685.318	1393.203	2082.372	3780.097	1035.135	12095.27	283.4151	1	116517.3	143096	10678.68	132417.3	139658.5	2.9735
10.28	110.3833	89.2951	6.5152	141.5627		6.4031	2.5259	2.8733	11748.55	5112.656	1336.325	2751.59	3282.98	833	8975.253	492.7005	0.8731	118177.9	143545.9	9467.954	134077.9	140498.2	2.8194
10.7088	141.2561	89.0702	9.9183	144.7866		6.1536	2.6358	3.3857	11460.14	5166.727	1341.695	1822.619	3894.094	833	10708.76	284.1309	1	114519.6	141412.5	10992.9	130419.6	137873.9	3.301
11.4709	99.8539	86.9225	9.132	140.8677		5.8528	2.3551	2.6601	10958.17	5231.883	1348.167	1775.493	3354.35	846.2794	9124.447	441.1703	0.7954	119259.2	144724.7	9565.517	135159.2	141645.5	2.6089
12.0553	120.9676	87.0598	5.7877	150.3513		6.2444	2.5071	3.0043	11923.6	5147.057	1339.742	2026.857	4174.945	833	11460.97	283.0905	0.9507	116057.8	143701.9	11744.16	131957.8	139921.5	2.9252
11.0493	72.4201	87.3703	9.6139	153.9198		4.7283	2.0352	2.0734	11968.25	5475.529	1372.366	2704.026	3066.568	947.7577	8316.104	591.7509	0.7526	122790.4	147598.2	8907.855	138690.4	144730.8	2.0428
11.089	125.8654	87.8108	7.9306	148.6369		5.6116	2.5754	3.105	11874.04	5284.158	1353.359	1934.122	4032.349	868.0516	11088.96	281.4598	1	115763.2	143035.6	11372.42	131663.2	139374.8	3.0256
12.0257	102.9579	87.1929	6.951	158.5922		4.4602	2.2641	2.6459	12725.74	5533.633	1378.138	2067.013	4372.999	971.9583	12025.75	283.342	1	117589.6	145797.7	12308.08	133489.6	141835.7	2.574
11.9823	163.0728	86.2341	7.5338	133.6327		8.2399	3.028	3.7723	10516.94	4714.691	1296.798	1668.063	3602.386	833	9814.924	285.1427	0.8191	113037	139037.1	10100.07	128937	135785.9	3.6841
10.5061	126.8399	86.7314	8.2938	152.8555		3.8083	2.6004	3.1418	11989.62	5674.858	1392.164	1669.413	3820.404	1030.778	10506.13	283.6137	1	115941.6	142631.4	10789.74	131841.6	139158.1	3.0653
11.1391	115.0163	85.2128	7.9415	152.0606		5.4625	2.4393	2.9042	11749.94	5316.45	1356.566	1742.836	4050.584	881.5012	11139.12	283.0042	1	116794.4	144116.5	11422.12	132694.4	14039.8	2.8301
10.558	122.8802	88.0708	8.2965	150.3818		5.6624	2.5506	3.0684	11996.6	5273.151	1352.266	2266.444	3839.267	863.4675	10557.99	283.4413	1	116297.7	143039.1	10841.43	132197.7	139549.3	2.9935
11.5414	138.9707	87.0291	5.8804	155.4877		5.9802	2.7195	3.3176	12617.63	5204.28	1345.425	2634.257	4196.881	834.7826	11541.43	283.8776	1	114349.2	142054.5	11825.3	130249.2	138267.9	3.2287
11.3782	107.7218	89.012	7.2263	148.5491		5.8697	2.3723	2.8053	12149.18	5228.229	1347.804	2747.816	3578.577	844.7574	9775.098	282.3138	0.8591	118198.2	144156.2	10058.03	134098.2	140918.5	2.7423
12.3424	127.8933	86.7395	7.394	142.0263		6.5972	2.5944	3.1331	11269.15	5070.598	1332.147	1496.567	4134.84	833	11332.81	283.4929	0.9182	115458.4	142974.7	11616.3	131358.4	139235.4	3.0511
11.0961	134.7108	86.2399	8.0947	153.4775		5.5004	2.6086	3.2604	12083.16	5308.256	1355.752	2104.13	4034.93	878.0888	11096.06	283.8072	1	114935.9	142215.8	11379.86	130835.9	138552.6	3.1764
12.182	120.4638	87.8293	7.8311	140.4904		6.9866	2.6605	3.0656	11238.98	4986.23	1323.768	2378.797	3315.185	833	8979.938	501.4976	0.7371	117144.6	142526	9481.436	133044.6	139473.9	3.0074
11.6939	148.6599	88.2899	7.9523	151.6104		4.6545	2.8244	3.4722	11280.01	5491.529	1373.956	1705.789	4252.31	954.4217	11693.86	284.2009	1	113434.6	141312.7	11978.06	129334.6	137457	3.3775
12.1273	117.4151	87.2683	7.6894	158.3553		5.2169	2.4485	2.9179	12601.72	5369.664	1361.852	2154.621	4409.923	903.665	11217.29	282.9224	1	116086	144396.2	12410.22	131986	140401.4	2.8372
10.6703	121.7786	86.8107	7.7519	156.082		5.0116	2.5345	3.0446	12339.65	5414.161	1366.271	2354.903	3880.117	922.1798	10670.32	283.3742	1	116351.8	143205.5	10953.7	132251.8	139679.5	2.9696
10.7018	119.3274	87.8143	7.992	150.5701		4.4767	2.5032	2.9984	12018.86	5530.05	1377.782	1846.995	3891.566	970.4657	10701.81	283.2662	1	116574.6	143461.5	10985.08	132476.4	139925.4	2.9245
12.0883	97.2																						

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
11.5135	121.9961	86.8419	7.7866	145.8471		6.5767	2.5666	3.0804	11529.98	5075.046	1332.589	2344.578	3542.765	833	9665.344	298.7305	0.8395	116793.6	142657.7	9964.075	132693.6	139450.2	3.0117
11.4507	113.3424	87.6545	8.9161	154.2741		5.8215	2.4138	2.8667	12147.29	5238.672	1348.841	2186.611	4122.058	849.107	11332.32	282.8984	0.9897	116868.4	144384.3	11615.83	132768.4	140645.1	2.7925
11.9915	171.9616	86.8663	8.3597	148.5718		7.6941	3.0603	3.8201	11659.64	4832.941	1308.543	1922.603	4360.552	833	11391.52	284.9281	1	111409.3	139585.7	12276.45	127309.3	135634	3.712
11.9898	135.5951	87.1653	9.8648	143.7062		7.0643	2.7092	3.2022	11108.56	4969.394	1322.096	1800.756	3781.312	833	10330.46	283.9995	0.8616	115203.2	141717.6	10614.46	131103.2	138380.8	3.2226
10.2333	179.8577	88.1449	8.7948	151.6991		4.5337	3.1874	4.0075	12037.35	5517.689	1376.554	2054.607	3721.183	965.3178	10233.26	285.6161	1	11526.8	137945.2	10518.87	127426.8	134559.7	3.9091
12.0748	95.9835	87.02	7.7419	143.7166		5.4858	2.2506	2.5742	11393.57	5311.405	1356.065	1965.502	3479.199	879.4003	9455.895	350.6721	0.7831	119576.7	145283.3	9806.567	135476.7	142126.6	2.5206
11.0893	133.6058	87.6667	7.3111	158.8899		3.5412	2.668	3.2415	12767.7	5732.732	1397.913	2147.702	4032.471	1054.883	11089.29	283.7657	1	115040.2	142313.3	11373.06	130940.2	138652.3	3.1581
11.2794	126.3841	87.0909	8.8059	143.2062		6.6277	2.6003	3.1416	11210.9	5063.993	1331.491	1833.48	3746.939	833	10265.23	283.6427	0.9101	116097	142545.9	10548.87	131997	139150.2	3.0668
12.2495	92.4484	85.2532	9.0866	151.5882		5.2724	2.1901	2.4989	11545.96	5357.65	1360.658	2022.174	3504.815	898.6613	9521.594	332.289	0.7773	119950.3	145704.2	9853.883	135850.3	142532.2	2.4462
9.7203	158.6947	88.0987	7.9436	156.2179		3.1033	2.9839	3.7073	12521.67	5827.613	1407.336	2255.648	3534.668	1094.401	9720.341	285.0074	1	113442	139347.4	10005.35	129342	136126.6	3.6216
11.9173	153.4835	86.3084	5.7902	149.8519		5.7439	2.8711	3.5411	12065.81	5255.496	1350.512	1868.135	4333.551	856.1142	11917.27	284.3228	1	112928.8	141030.3	12201.59	128828.8	137102.7	3.4425
10.2215	115.8476	86.6444	10.1285	148.298		6.1811	2.487	2.965	11347.16	5160.758	1341.102	2085.833	3524.464	833	9673.361	295.8212	0.9464	117404	143273.2	9969.182	133304	140064.1	2.8991
11.2933	113.2022	86.4696	7.5349	153.1592		5.6806	2.4129	2.8653	12089.58	5269.201	1351.873	2098.228	4106.455	861.8223	11292.75	282.8998	1	11690.81	144377.5	11575.65	132801.8	140651.3	2.7913
11.4382	106.458	88.5781	8.6812	151.0606		4.4	2.3221	2.7315	12069.28	5546.673	1379.433	1604.435	4159.349	977.3895	11438.21	282.5854	1	117516.6	145137.4	11720.8	133416.6	141364.5	2.6605
12.2126	166.8987	86.2078	7.4756	150.0856		5.4679	3.0023	3.7362	11816.58	5315.278	1356.45	1420.908	4400.929	881.0134	12212.56	284.7107	1	11712.4	140109.6	12497.27	127612.4	136086.8	3.6289
11.1933	85.8385	86.6543	8.4438	154.0326		4.8574	2.0865	2.3561	12046.97	5447.554	1369.588	2388.286	3503.433	936.1061	9567.248	318.732	0.8547	120691.7	146477.7	9885.98	136591.7	143295.4	2.3062
12.6604	118.5853	87.2582	9.0685	154.9708		6.2793	2.4887	2.9771	12117.12	5139.493	1338.99	2400.16	4003.471	833	10939.02	283.1906	0.864	116536.9	143659.1	11222.21	132436.9	140064.2	2.9023
10.7943	155.2739	87.7426	9.2717	144.1206		6.7494	2.9192	3.612	11309.28	5037.633	1328.873	1782.568	3925.203	833	10794.31	284.6376	1	113266.7	140245.7	11078.95	129166.7	136679.4	3.5202
11.9293	123.8115	87.7352	8.85	144.1902		6.6283	2.5779	3.1086	11374.47	5063.871	1331.479	2131.72	3612.403	833	9846.308	283.6185	0.8254	116540.5	142570.5	10129.93	132440.5	138309.7	3.0375
10.7454	138.9347	86.8034	7.9245	159.4719		4.1552	2.7382	3.3451	12378.97	5599.705	1384.7	2285.657	3907.426	999.4772	10745.43	284.0426	1	114711.4	141640.9	11029.47	130611.4	138095.5	3.2612
10.8798	140.2426	86.1006	9.3902	136.5639		7.7049	2.8832	3.4161	10475.88	4830.608	1308.311	1757.305	3344.654	833	9124.373	472.9437	0.8387	115211.4	140708.7	9597.317	131111.4	137619.3	3.3477
12.3091	139.058	86.409	9.1468	147.1017		6.9674	2.7157	3.312	11365.4	4990.406	1324.182	1539.603	4276.206	833	11740.59	283.8395	0.9538	114251.5	142176	12024.43	130151.5	138305.3	3.2218
11.3298	100.9082	86.3552	6.958	157.5416		5.4351	2.2663	2.6491	12508.36	5322.392	1357.156	2720.209	3822.631	883.9761	10480.84	285.5009	0.9251	118572.1	145235.4	10763.34	134472.1	141770.7	2.5859
12.3089	192.0063	87.3831	8.2226	143.6587		6.1212	3.2432	4.0899	11372.1	5002.479	1326.582	1333.261	4475.976	833	12308.94	285.4725	1	109787.6	138282	12594.41	125687.6	134227.9	3.97
10.8043	116.195	86.8072	9.0045	159.5798		6.6112	2.5778	2.982	10859.69	5067.57	1331.847	1876.187	3349.083	833	9140.755	450.4733	0.846	117527.7	143018.9	9591.228	133427.7	139931.5	2.9234
10.156	117.3207	86.8349	9.0108	156.6034		5.9324	2.4896	2.9783	12187.52	5214.637	1346.454	2692.352	3692.98	839.0963	10155.7	282.2842	1	117034.2	143373.1	10438.98	132934.2	140012.8	2.9085
11.0742	99.1813	85.4027	7.4883	136.1248		6.5157	2.5261	2.6686	10606.07	5088.273	1333.903	2019.244	2929.654	833	7922.461	263.4511	0.7154	11931.2	144317.1	8685.912	135631.2	141521.1	2.6317
11.297	145.0772	88.6503	6.1767	142.7664		5.5876	2.7946	3.4282	11774.46	5289.36	1353.876	1750.99	4108.016	870.2183	11297.05	284.1564	1	113919.8	141401	11581.2	129819.8	137673	3.3378
12.2343	100.9024	87.2922	7.0701	155.146		5.3253	2.2441	2.6165	12446.14	5346.175	1359.519	2027.332	4237.23	893.8821	11631.99	282.3094	0.9508	118000.3	145814.6	11914.3	133900.3	141979.4	2.5476
12.2034	156.9471	86.8355	5.536	154.9608		6.3077	2.9006	3.5846	12598.23	5133.337	1338.379	2453.903	4437.617	833	12203.45	284.3789	1	112517.4	140905.2	12487.83	128417.4	136885.4	3.4824
12.0967	91.873	87.4758	7.7847	137.774		6.1831	2.4242	2.5168	10979.35	5160.332	1341.06	2329.394	2913.564	833	7836.135	265.0044	0.6478	120598.6	145098	8601.139	136498.6	142329.3	2.4834
11.7137	121.4131	86.8254	9.2906	133.9397		7.2613	2.736	3.0908	10384.99	4926.727	1317.858	1728.573	3176.829	833	8602.142	2615.2508	0.7325	117160.2	142277.5	9217.393	133060.2	139310.5	3.0374
11.7756	104.4066	88.3906	7.5374	155.8466		5.1833	2.2883	2.6816	12600.7	5376.958	1362.576	2270.444	4282.022	906.7029	11775.56	282.439	1	117562.8	145520.8	12058	133462.8	141639.3	2.61
11.4109	105.4254	87.1832	9.1917	156.143		4.2937	2.309	2.7121	12376.6	5569.703	1381.72	1886.765	4149.429	986.9811	11410.93	282.5452	1	117636.7	145230.2	11693.48	133536.7	141466.1	2.6418
10.8814	100.4172	88.7359	7.5543	156.2438		4.9278	2.2519	2.6279	12684.13	5432.314	1368.074	2595.124	3956.856	929.7589	10881.36	282.4118	1	118425.4	145489.2	11163.77	134325.4	141895.6	2.563
9.8937	73.9551	87.7913	7.7603	154.5576		3.7943	1.8824	2.0829	12369.39	5677.899	1392.466	2267.288	3597.692	1032.045	9893.654	281.2661	1	121963.5	148008.5	10174.92	137863.5	144763.1	2.0368
11.8654	96.6756	86.7751	10.7239	136.4308		6.6306	2.5456	2.6238	10375.72	5063.362	1331.429	1942.171	2803.763	833	7532.597	860.5919	0.6348	120146.5	144439.6	8393.188	136046.5	141737.9	2.5919
9.8378	111.8328	88.5572	9.3857	150.7135		4.5754	2.4253	2.8836	11932.23	5508.671	1375.658	2106.95	3577.387	961.5614	9837.815	283.1042	1	117747.1	143762.6	10120.92	133641.7	140504.7	2.8182
11.8763	82.4792	86.7619	8.3486	145.2447		5.2078	2.2078	2.3038	11389.13	5335.346	1358.443	2333.608	3070.357	889.3717	8291.773	624.2064	0.6982	121550.3	146366.3	8915.979	137450.3	143496.2	2.2693
11.8356	96.1248	86.9251	8.784	150.5295		5.2273	2.1986	2.5493	11762.54	5367.417	1361.628	1888.66	3860.11	902.7293	10565.08	282.2664	0.8926	119047.5	145794.8	10847.35	134947.5	142303	2.4882
10.4918	132.8939	86.8566	10.2745	143.7307		6.8431	2.6834	3.2642	11007.19	5017.331	1326.857	1762.169	3665.833	833	10067.29	283.9646	0.9595	115573.2	141824.4	10351.23	131473.2	138492.3	3.1875
10.3462	110.6701	87.3567	7.0753	150.3018		5.4803	2.3996	2.8457	12066.45	5312.596	1356.183	2353.514	3762.256	879.896	10346.21	282.9611	1	117615.4	144144.6	10629.17	133515.4	140723	2.7782
11.3295																							

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
10.9706	201.9412	87.1753	7.9613	143.551		7.0845	3.3734	4.2818	11371.24	4965.028	1321.662	1860.237	3989.316	833	10970.62	286.1168	1	109613.8	136770.6	11256.74	125513.8	133147	4.1683
9.8573	205.5282	87.3043	8.4326	151.3692		5.9087	3.4393	4.3788	11938.75	5219.783	1346.965	2544.3	3584.46	841.2396	9857.269	286.5248	1	109795	135838.8	10143.79	125695	132573.5	4.2736
10.4851	129.1358	88.818	9.1499	147.2018		5.8968	2.6287	3.1836	11727.28	5222.37	1347.222	2100.605	3812.766	842.317	10485.11	283.7108	1	115733.7	142402.6	10768.82	131633.7	138936.1	3.1061
11.148	126.1385	86.3485	6.4744	150.0694		5.899	2.5774	3.108	11986.66	5265.212	1351.477	2053.998	4053.811	860.1609	11147.98	283.4593	1	115709.8	143041.2	11431.44	131609.8	139361.5	3.028
10.3352	77.7001	86.5114	9.0332	147.8813		4.6077	2.0708	2.1887	11457.57	5458.325	1370.658	2086.234	3199.764	940.5923	8732.61	509.0852	0.8449	121970.1	147111.8	9241.695	137870.1	144136.9	2.1527
11.4473	121.9693	86.3804	10.2438	151.0703		6.4559	2.5465	3.0623	11501.98	5101.224	1335.189	2092.501	3738.069	833	10231.73	283.4664	0.8938	116539.5	142954.7	10515.19	132439.5	139569.8	2.9898
11.6335	85.8395	88.0191	5.9261	151.9461		4.4596	2.0336	2.306	12473.72	5533.757	1378.15	1963.962	4223.839	972.0099	11615.3	281.6216	0.9984	119655.6	147452.5	11896.92	135555.6	143622.9	2.2461
11.3894	111.2809	86.4758	8.0577	154.0458		5.2856	2.3861	2.8259	12079.99	5354.782	1360.373	1923.769	4141.599	897.4667	11389.41	282.801	1	117044.8	144620.6	11672.21	132948.4	140863.3	2.7524
12.1772	101.2236	87.0992	6.9003	149.0092		5.5857	2.2828	2.6733	11950.36	5289.755	1353.915	2416.33	3617.981	870.3828	9850.68	282.6214	0.8089	118851	144884.3	10133.3	134751	141622.4	2.6131
11.2544	117.097	87.5115	8.6441	156.4499		5.6792	2.4632	2.9395	12338.79	5269.499	1351.903	2360.928	4092.511	861.9464	11254.41	283.07	1	116533.3	143970.8	11537.48	132433.3	140256.8	2.8637
11.1787	136.2548	87.4609	7.0291	149.1379		6.5267	2.6969	3.2841	11995.43	5085.892	1333.666	2275.908	4064.968	833	11178.66	283.8497	1	114757.8	142120.3	11462.51	130657.8	138430.5	3.1988
12.2425	151.6383	87.9212	9.3548	144.7647		7.2608	2.8444	3.5018	11373.64	4926.818	1317.867	1463.531	4430.426	833	12182.52	284.1999	0.9951	112967.4	141334.1	12466.72	128867.4	137321.1	3.4024
11.2674	109.6456	86.4325	6.7866	156.1223		4.4807	2.3674	2.7982	12434.49	5529.172	1377.694	2058.309	4097.218	970.0999	11267.35	282.7528	1	117273.4	144723.5	11550.1	133173.4	141005.5	2.7263
12.6791	141.1256	88.1814	6.4694	137.6225		7.1603	2.7475	3.3589	11245.41	4948.6	1320.03	1578.465	4163.311	833	11399.03	283.9881	0.899	114221.7	141804.7	11683.02	130121.7	138043.9	3.2698
11.8991	141.1574	87.3333	7.9356	140.2		7.3704	2.786	3.4155	11131.55	4903.077	1315.509	2073.317	3604.651	833	9825.395	284.324	0.8257	114924.1	140933.8	10109.72	130824.1	137679.5	3.3366
10.6028	122.0078	87.2436	7.5872	158.4639		3.9772	2.5388	3.051	12622.66	5638.27	1388.53	2322.763	3855.558	1015.54	10602.79	283.9696	1	116363.1	143147.5	10886.18	132261.3	139643.2	2.9763
11.9293	107.2105	88.1717	9.709	152.6702		5.6335	2.3334	2.7481	11970.68	5279.401	1352.886	4541.733	866.0705	1371.08	1082.6296	0.9532	117472	145025.7	11653.71	133372	141274.4	2.677	
10.6706	136.6218	88.0743	9.6398	145.3568		5.3975	2.7132	3.3081	11400.98	5330.531	1357.965	1542.899	3880.217	887.3663	10670.6	283.969	1	114954.9	141809.5	10954.57	130854.9	138283.2	3.2259
10.8119	126.5006	87.3691	7.3254	133.1864		7.1611	2.7297	3.1756	11660.74	4948.439	1320.014	1845.487	3311.796	833	9032.874	281.0669	0.8355	116533.6	141957.6	9523.94	132433.6	138891.8	3.1142
12.7519	106.5231	87.9544	8.3163	158.9824		5.403	2.2987	2.6971	12661.07	5329.354	1357.848	2084.535	4600.455	886.8759	12649.73	282.3814	0.9941	116915.6	145747.7	12932.11	132815.6	141584.9	2.62
13.1825	84.3063	88.1761	10.0858	149.813		4.9923	2.1025	2.3274	11699.32	5418.326	1366.685	2153.425	3434.946	923.9352	9280.641	387.8792	0.704	120973.4	146541.7	9668.32	136873.4	143429.5	2.2815
9.7532	100.2648	86.6478	8.1179	159.515		3.751	2.2714	2.6566	12510.99	5687.278	1393.398	2445.743	3546.617	1035.951	9753.199	287.5932	1	119003	144938.8	10035.79	134903	141708.3	2.5974
11.5961	134.0923	87.304	8.9315	153.4481		5.9855	2.6618	3.2325	12026.13	5203.136	1343.311	2024.602	4216.771	834.3509	11596.12	283.6815	1	114764.2	142544	11879.8	130664.2	138719.9	3.1457
12.5367	126.065	87.1769	6.5173	155.4715		5.8562	2.5452	3.0606	12540.27	5231.167	1348.096	2154.221	4558.809	845.9809	10536.73	283.1876	1	1150689.2	143789.2	12819.91	130969.2	139662.4	2.9728
12.0324	109.9784	85.9206	7.2136	150.3333		5.8326	2.3766	2.8119	11828.29	5336.262	1348.602	1973.687	4023.637	848.103	11027.01	282.8096	0.9164	117356.2	144566	11309.81	133256.2	140925.3	2.771
11.546	148.259	86.4361	7.2693	154.7239		5.3701	2.8237	3.4712	11242.99	5336.477	1358.555	2063.561	4198.55	889.8425	11546.02	284.2186	1	113534.2	141264.4	11830.24	129434.2	137456.3	3.3474
10.9051	137.9287	87.8007	8.6531	154.2855		5.8107	2.7228	3.3223	12211.33	5241.019	1349.074	2403.649	3965.5	850.0843	10905.13	283.9706	1	114730.2	141819.3	11189.1	130630.2	138217.5	3.2379
11.1768	73.8993	86.7781	7.937	148.9838		4.4934	2.9224	2.0955	11746.02	5538.372	1378.608	2113.96	3339.151	973.9318	9094.423	240.6366	0.8137	122303	147718.1	9515.06	138203	144655.2	2.0566
11.6096	148.5027	87.4712	9.0072	148.5237		6.3849	2.8248	3.4728	11653.76	5116.595	1336.716	1743.774	4221.674	833	11609.61	284.2136	1	113483.5	141279.1	11893.82	129385.3	137450.5	3.3787
11.0892	109.9091	87.9201	8.7783	152.3031		5.8044	2.3842	2.823	12053.55	5422.369	1342.208	2344.16	3865.161	850.6468	10631.58	282.88	0.9571	117563.9	144360.3	10896.46	133463.9	140852.8	2.7544
11.2078	167.7948	87.1983	9.5088	151.0956		5.9431	3.0396	3.7896	11738.57	5212.335	1346.225	1864.302	4075.546	838.1377	11207.66	284.9766	1	112065.4	139458.2	11492.74	127965.4	135758.6	3.6891
11.4307	88.4344	87.0871	9.584	138.1077		5.8909	2.3503	2.4405	10703.77	5223.636	1347.348	1938.377	2949.569	842.8443	9764.692	721.6762	0.6968	120955.4	145541.8	8686.364	136855.4	142746.6	2.4207
11.8705	103.5468	86.8525	7.1889	148.2575		5.5549	2.2959	2.6928	11810.72	5296.441	1354.579	1941.621	3942.914	873.1674	10802.07	282.566	0.91	118132.9	145117.5	11084.64	134032.9	141549.3	2.6265
9.6717	96.3035	87.0408	10.7492	144.6437		6.2071	2.4615	2.6063	11035.1	5155.121	1340.543	2349.794	2954.647	833	8057.527	281.5227	0.8331	120011	144688	8777.05	135911	141862.7	2.5691
12.3259	166.464	85.9436	7.9885	140.3026		8.2789	3.0467	3.8	10935.9	4706.238	1295.958	1874.173	3824.531	833	10438.99	285.1137	0.8469	112496.1	139120.2	10724.11	128396.1	135668.1	3.7057
10.5652	113.376	87.3975	8.9005	150.8739		5.1292	2.4303	2.8909	11843.15	5388.678	1363.74	1935.265	3841.881	911.5842	10565.18	283.0391	1	117234.4	143982.6	10848.21	133134.4	140490.5	2.8208
11.184	153.0503	87.5286	8.1857	151.3599		6.2852	3.5619	3.2009	12009.34	5294.662	1354.402	2018.939	4066.906	872.4268	11184	284.4705	1	113284.9	140653.4	11468.47	129184.9	139961.7	3.4684
11.3627	92.8293	87.4688	8.7709	157.7496		4.7384	2.1378	2.4597	12414.56	5473.356	1372.151	2088.308	4131.893	946.8527	11362.71	281.9372	1	119005.2	146549.9	11644.69	134905.2	142801.5	2.9968
11.3953	142.3288	88.1848	8.5877	153.3106		4.1886	2.1378	3.3791	12621.61	5592.465	1383.981	2102.963	4143.745	996.4615	11395.3	284.0037	1	114117	141696.3	11679.34	130017	137936.3	3.2894
11.6602	96.4088	88.4676	7.3007	156.4004		4.9494	2.1824	2.5254	12694.54	5427.636	1367.61	2332.734	4236.748	927.8102	11650.94	282.1055	0.9992	118469.9	146302.9	11933.05	134369.9	142461.7	2.4591
10.5946	175.1464	86.2135	7.8885	147.4421		6.0094	3.1307	3.9238	11548.4	5144.794	1344.799	1918.056	3852.574	833	10594.58	285.3705	1	111742.6	138522.5	10879.95	127642.6	135020.3	3.8246
11.2084	106.5905	88.0565	8.2823	153.4037		5.0443	2.3285	2.7408	12239.82	5407.07	1365.567	2070.169	4075.767	919.2445	11208.36	282.6308	1	117615.6	145005.5	11490.99	133515.6	141307.6	2.6709
10.9759	150.098																						

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
12.4724	169.0617	86.941	7.9919	154.7384		6.0204	3.0181	3.758	12216.45	5195.574	1344.56	1905.882	4535.43	833	12472.44	284.7205	1	111433	140090.2	12757.16	127333	135983.7	3.6478
11.1086	129.0376	87.6866	10.3693	156.3479		5.0897	2.6133	3.1609	12088.4	5397.231	1364.59	1969.933	4039.503	915.1467	11108.63	283.5826	1	115454.9	142747.2	11392.22	131354.9	139080	3.0797
11.5612	144.5858	86.6017	6.6596	145.8592		7.1171	2.7863	3.4161	11368.57	4957.955	1320.959	1704.779	4149.877	833	11408.39	284.1144	0.9868	113913.2	141505.7	11692.52	129813.2	137741.9	3.3252
12.6516	117.2067	86.7561	7.5988	151.8055		6.166	2.464	2.9407	12016.52	5164.03	1341.427	2153.96	4122.964	833	11284.04	283.0691	0.8919	116508.4	143975.5	11567.1	132408.4	140252	2.8646
11.2913	91.2162	86.389	6.7458	151.0271		5.5163	2.26	2.4836	12028.28	5304.805	1355.41	2814.012	3275.404	876.6512	8905.517	488.547	0.7887	120302	145596	9394.059	136202	142572.1	2.4389
10.2052	74.4644	86.9298	9.6413	152.7716		4.652	2.0276	2.1157	11807.49	5492.065	1374.009	2414.942	3169.83	954.6452	8652.512	521.0823	0.8479	122402.1	147475.7	9173.594	138302.1	144522.7	2.081
11.6061	119.1132	86.986	9.3675	158.0583		5.3635	2.4809	2.9657	12268.25	5337.908	1358.697	2058.797	4220.413	890.4386	11606.14	283.0877	1	116168.7	143958	11889.23	132068.7	140130.8	2.8868
11.2591	88.5715	88.3364	9.1177	145.9147		5.1036	2.152	2.4184	11559.17	5394.228	1364.291	2042.212	3442.546	913.8961	9388.524	364.0788	0.8339	120438.2	146090.8	9752.603	136338.2	142951.5	2.3693
10.9344	132.5503	87.1643	5.7367	154.3762		4.8614	2.6592	3.2285	12570.49	5446.706	1369.504	2440.376	3976.152	935.753	10934.42	283.756	1	115208.3	142326.5	11218.18	131108.3	138715.4	3.1466
11.8437	128.9608	86.5186	6.4512	148.7314		5.6881	2.5956	3.1348	11908.53	5267.588	1351.713	1719.279	4306.8	861.1504	11843.71	283.4343	1	115122.1	143149.2	12127.14	131022.1	139245.5	3.0493
11.2378	142.4656	86.1661	8.3801	149.2754		6.3613	2.7666	3.387	11611.54	5121.713	1337.224	1831.128	4086.47	833	11237.79	284.0722	1	114175.4	141597.3	11521.87	130075.4	137888.4	3.2983
10.5391	96.6063	88.0439	9.1077	150.0344		5.2288	2.2158	2.5746	11843.13	5367.089	1361.596	2165.911	3643.944	902.5928	10002.54	282.3801	0.9491	119277.5	145462.5	10284.92	135177.5	142151.8	2.516
11.9491	139.2239	86.7402	7.8463	136.2684		7.5276	2.8211	3.3928	10750.75	4869.02	1312.126	1874.881	3459.726	833	9405.639	382.7257	0.7871	115230.4	140918.8	9788.365	131130.4	137767.9	3.3204
11.1369	127.5284	88.4015	7.1402	148.6403		5.8241	2.5945	3.1331	12078.71	5238.113	1348.786	2191.161	4049.776	848.8741	11136.89	283.517	1	115883.6	142904	11420.4	131483.6	139227.8	3.0525
11.1982	141.5484	87.9329	6.0692	153.5949		3.677	2.7572	3.3731	12573.84	5703.327	1394.992	1958.809	4072.079	1042.636	11198.22	284.0463	1	114274.3	141656.5	11482.27	130174.3	137960.4	3.2851
12.1481	77.9251	86.8384	7.6926	145.2154		4.4559	1.964	2.1798	11493.19	5534.562	1378.23	1681.066	3524.986	972.3452	9584.276	312.3813	0.789	121623.9	147420.6	9896.657	137523.9	144234.9	2.1338
10.777	97.1873	86.1058	9.1486	144.9064		6.003	2.3972	2.6152	11151.6	5199.349	1344.935	2217.97	3154.343	833	8580.852	582.4986	0.7962	119735	144798.6	9163.35	135635	141848.7	2.5716
11.2487	137.5327	88.6182	6.9085	144.8157		6.0944	2.71	3.3035	11832.85	5179.557	1342.97	1984.892	4090.429	833	11248.68	283.8841	1	114610.5	142043.1	11532.57	130510.5	138330.7	3.2171
12.4782	134.9621	87.8678	6.9007	155.6728		4.8854	2.6511	3.2168	12604.38	5441.492	1368.986	1920.796	4537.523	933.5813	12478.19	283.5361	1	114282.7	142944.4	12761.73	130182.7	138836.4	3.1243
11.0851	137.092	87.635	8.5119	154.6664		5.8149	2.7088	3.3017	12237.68	5240.1	1348.983	2365.942	4030.952	849.7017	11085.12	283.9011	1	114724.4	141993.4	11369.02	130624.4	138333.7	3.2166
11.9268	149.3846	88.1226	7.2636	153.246		6.0598	2.8264	3.4753	12391.31	5187.041	1343.713	2288.538	4337.021	833	11926.81	284.1761	1	113070.2	141382.1	12210.99	129170.2	137450.5	3.3787
11.531	142.5909	85.7661	7.3654	153.0351		5.7264	2.7609	3.3786	11998.06	5259.291	1350.889	1935.084	4193.107	857.6946	11531.04	284.0147	1	114033.2	141748.3	11815.06	129933.2	137945	3.2879
12.3112	137.371	87.633	8.5283	158.2823		6.1053	2.6828	3.2634	12520.87	5177.183	1342.734	2289.16	4476.795	833	12311.19	283.6593	1	114144.3	142638.3	12594.85	130043.3	138584	3.1707
10.6409	132.0571	86.6346	7.4645	150.9478		6.1072	2.6369	3.1957	11950.55	5176.766	1342.692	1963.024	4233.068	833	11640.94	283.5943	1	114929.7	142754.3	11924.53	130829.7	138915.8	3.1098
9.6375	177.7478	87.565	8.8145	157.2419		3.2267	3.1962	3.9998	12382.88	5900.886	1404.682	2187.501	3504.547	1083.269	9637.507	312.8751	1	111919.4	137769.8	9950.382	127819.4	134566.7	3.9078
11.2365	137.8322	85.9071	8.9544	138.01		7.307	2.7749	3.3653	10620.24	4916.817	1316.873	1645.003	3506.548	833	9574.157	312.929	0.8521	115313.5	141116.6	9903.086	131213.5	137928.8	3.2909
10.1025	96.9657	85.8931	7.522	143.6801		5.7798	2.3512	2.6053	11260.37	5247.706	1349.738	2165.047	3243.007	852.8696	8868.489	505.9414	0.8779	119663.6	144938	9374.426	135563.6	141920.4	2.5585
12.0459	88.6727	85.6006	7.2317	148.8516		4.8681	2.0932	2.3939	11665.34	5445.24	1369.358	1660.614	3852.987	935.1426	10534.49	281.9178	0.8745	119892.4	146608.8	10816.41	135792.4	143127	2.337
11.053	155.4331	88.1007	8.7108	148.7758		5.3268	2.9143	3.6047	11811.29	5345.867	1359.488	1790.918	4019.268	893.7536	11052.99	284.5848	1	113141.3	140378.9	11337.57	129041.3	136729.3	3.511
11.4023	105.2548	88.7571	8.9438	138.8575		6.169	2.4431	2.7077	11082.27	5163.381	1341.363	2015.756	3327.175	833	9049.394	466.6913	0.7936	118697.9	144114	9516.085	134597.9	141050.8	2.718
11.0723	85.1077	87.2475	7.7514	142.5768		5.6274	2.2823	2.374	11334.3	5280.736	1353.019	2436.78	2995.135	866.6267	8110.143	676.8115	0.7325	12125.3	145938.3	8786.954	137151.3	143109.7	2.3402
11.3513	80.995	85.7065	9.0902	145.5742		5.5025	2.2422	2.278	11153.35	5307.801	1355.707	2300.065	2909.874	877.8991	7854.484	725.3139	0.6919	121892.7	146372.5	8579.798	137792.7	143610.6	2.4283
11.4008	125.5466	86.5433	8.2516	144.0509		6.7133	2.6074	3.1452	11277.99	5045.447	1329.649	2119.774	3548.116	833	9686.163	292.7841	0.8496	116441.4	142320.3	9978.947	132341.4	139108.1	3.0745
11.7426	157.5996	87.2278	8.7185	139.3434		7.7368	2.9344	3.6345	10939.75	4823.7	1307.625	1505.265	4068.163	833	11168.02	284.6353	0.9511	112910.9	140263.5	11452.65	128810.9	136576.9	3.539
10.0114	90.541	86.6914	7.397	155.6799		4.1049	2.1295	2.4472	12344.55	5610.616	1385.784	2301.602	3640.526	1004.021	10011.45	282.0884	1	119948.9	146142.5	10293.53	135848.9	142829	2.3917
11.5764	170.3689	86.8501	5.8957	141.6649		6.5554	3.0557	3.8134	11468.4	5079.654	1333.047	1611.108	4209.589	833	11576.37	284.9749	1	117070.2	139468.5	11861.35	127607.2	136560.4	3.709
11.8158	107.7552	86.9807	8.5295	144.279		5.8862	2.3714	2.804	11318.85	5224.85	1347.448	1893.012	3608.478	843.2665	9840.389	282.9217	0.8328	118162.9	144186.2	11023.31	134062.9	140927.5	2.7406
9.5248	131.9593	88.2604	7.7205	154.1338		4.2185	2.7133	3.2636	12413.93	5585.988	1383.338	2585.278	3463.558	993.764	9524.787	343.0968	1	115873.6	141641.5	9867.884	131773.6	138465	3.1925
10.4439	112.899	86.0588	9.1381	157.83		5.1709	2.4267	2.8856	11740.39	5379.637	1362.842	2290.302	3797.789	907.819	10443.93	283.0046	1	117341	143967.9	10726.97	133241	140514.9	2.8164
10.8627	104.8566	86.4106	10.0349	146.0789		6.2041	2.4581	2.7653	11156.87	5155.785	1340.609	2153.458	3272.023	833	8915.813	503.145	0.8208	118783.2	144102.2	9418.958	134683.2	141070.2	2.7145
11.7192	122.4673	88.6617	10.3668	153.5752		5.5031	2.5199	3.2032	12024.15	5415.991	1366.453	1655.208	4261.539	922.9603	11719.23	283.2021	1	115791.9	143694.4	12002.44	131691.9	139830.8	2.9419
12.3997	131.2704	86.8439	10.0671	156.7704		6.8442	2.6484	3.2127	12036.33	5017.388	1326.833	2527.023	3930.386	833	10740.75	283.7447	0.8662	115415.9	142340.4	11024.49	131315.9	138791.6	3.1326
10.7427	159.4367	85.7705																					

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
11.55	176.994	87.3057	8.2052	157.8839		5.0775	3.1223	3.9116	12488.7	5399.876	1364.852	2205.729	4199.992	916.2485	11549.98	285.1971	1	111205.3	138940.5	11835.18	127105.3	135130.7	3.8043
11.3849	132.7521	88.0736	7.3423	139.1761		6.8781	2.6734	3.2494	12335.87	5009.738	1326.103	1860.411	3804.616	833	10426.42	283.8674	0.9158	115422.2	142032.4	10710.29	131322.2	138584.8	3.1705
11.9823	148.1572	87.9518	6.3786	136.2498		7.5053	2.8435	3.5003	11114.33	4873.841	1312.605	1779.601	3913.284	833	10711.4	284.3972	0.8939	113911	140806.8	10995.8	129811	137267.3	3.4123
10.7491	148.0156	88.8924	6.5249	152.3915		4.8877	2.8409	3.4966	12546.18	5441.001	1368.937	2492.118	3908.751	933.377	10749.07	284.3837	1	113906.7	140480.2	11033.45	129806.7	137288.5	3.4084
12.2489	79.5448	87.8038	10.4784	148.4465		5.2301	2.1646	2.2385	11478.69	5366.823	1361.569	2384.224	3061.594	902.4816	8251.873	626.0429	0.6737	121923.2	146701.1	8877.916	137823.2	143843.3	2.2056
11.2736	129.5737	87.6232	8.2828	144.5128		5.9356	2.6159	3.1648	11465.7	5213.943	1346.385	1565.066	4099.502	838.8073	11273.63	283.5709	1	115328.6	142785.8	11557.2	131228.6	139065.6	3.0823
11.1858	131.2267	86.5218	7.2352	146.4666		6.861	2.6633	3.2345	11612.85	5013.45	1326.471	2358.599	3679.327	833	10074.81	283.878	0.9007	115725.8	141984.5	10358.69	131625.8	138650	3.1586
10.6696	130.4461	86.547	8.2226	155.2125		5.936	2.6402	3.2006	12156.91	5213.861	1346.377	2476.035	3879.869	838.7731	10669.64	283.7263	1	115525.6	142379	10953.37	131425.6	138853.1	3.1213
11.6247	156.509	88.3309	9.3352	147.7862		5.9469	2.911	3.5999	11674.47	5211.507	1346.143	1649.869	4227.158	837.7925	11624.69	284.4938	1	112804	140613.2	11909.18	128704	136779.6	3.5018
11.9158	117.4464	86.8008	9.618	145.1073		6.3051	2.4922	2.9823	11199.8	5133.905	1338.435	1790.609	3701.848	833	10104.84	283.2991	0.848	117045.8	143333.9	10388.14	132945.8	139990	2.9127
11.4632	104.7693	87.9459	9.1158	155.4436		5.3287	2.2993	2.6979	12253.64	5345.441	1359.446	2086.212	4166.965	893.5762	11459.12	282.5084	0.9996	117681.1	145322.7	11741.62	133581.1	141543.1	2.6277
11.6193	141.838	86.9106	5.6976	155.2253		5.4704	2.7502	3.3629	12606.31	5314.741	1356.396	2427.173	4225.211	880.7895	11619.33	283.9682	1	114059.9	141863.2	11903.3	129959.9	138031.6	3.272
11.5397	97.1253	87.932	8.34	142.176		5.7948	2.3361	2.6064	11316.07	5244.452	1349.415	2161.035	3307.658	851.5144	8886.916	474.834	0.7788	119606.3	144968	9461.75	135506.3	141922.3	2.5581
12.1673	109.7081	87.0723	9.6066	151.8203		5.7305	2.3614	2.7893	11760.87	5258.391	1350.8	1666.221	4226.134	857.3199	11603.01	282.6964	0.9536	117103.9	144889.6	11885.71	133003.9	141063.6	2.7157
12.3323	88.9937	88.6029	9.0157	148.4938		4.9874	2.1122	2.4218	11818.2	5419.401	1366.792	2131.286	3574.344	924.3806	9717.826	282.0779	0.788	120275	146174.9	9999.905	136175	142956	2.3684
11.1181	154.5905	86.1451	7.6051	148.9873		6.8101	2.9035	3.5889	11700.85	5024.969	1327.566	2070.875	4042.939	833	11118.09	284.5402	1	113183.8	140486.4	11402.63	129083.8	136815.9	3.4951
11.0799	147.8401	86.7959	7.249	151.616		6.1848	2.8307	3.4815	12060.6	5159.963	1341.023	2295.543	4029.667	833	10709.94	284.3049	1	113776	141040.2	11364.24	129676	137382.1	3.3912
10.4559	138.023	87.9013	9.5523	139.1007		7.3738	2.808	3.3722	10898.39	4902.336	1315.435	2102.586	3433.034	833	9399.514	284.2223	0.899	115343.2	141026.1	9783.737	131242.3	137876.7	3.3005
11.8365	129.4002	86.8552	7.3803	151.639		5.9988	2.601	3.1427	12051.51	5200.258	1345.026	1966.918	4304.196	833.1076	11836.54	283.4527	1	115084.6	143104.6	12119.99	130984.6	139203.2	3.057
12.5311	159.6374	87.844	11.1011	134.88		8.9367	3.1921	3.745	10351.08	4563.716	1281.802	2060.146	3210.412	833	8665.418	281.1571	0.6915	113616.8	138823.4	9306.575	129516.8	135827.6	3.6764
11.2405	125.3866	87.1331	7.8243	154.74		5.0969	2.5662	3.0914	12272.25	5395.664	1364.434	2108.193	4087.461	914.944	11240.52	283.4111	1	115738	143161.9	11523.93	131638	139452.4	3.0113
11.2267	109.1209	86.8122	9.2448	139.2261		6.6567	2.5734	2.8965	10799.41	5057.722	1330.869	2200.242	3155.581	833	8563.881	287.5709	0.7628	118439	143510.5	9171.451	134339	140558.2	2.8084
10.8658	127.4589	87.9925	9.3325	151.4349		6.5439	2.6065	3.1507	11911.88	5082.147	1333.295	2413.889	3847.545	833	10572.09	283.6528	0.973	115852.2	142607.9	10855.72	131752.2	139113.4	3.0735
10.4541	96.266	87.4655	9.6678	145.6294		5.7533	2.5838	2.5005	11329.62	5252.595	1350.224	2215.699	3254.198	854.9059	8883.894	500.9388	0.8498	119736.7	145021.6	9384.833	135636.7	142000.6	2.5437
10.9969	117.8668	87.7702	7.3469	145.6358		5.9681	2.479	2.9628	11712.51	5206.901	1345.686	1928.624	3993.428	835.8744	10981.72	283.1535	0.9986	116858.3	143750.2	11264.87	132485.3	140124	2.8881
11.7072	70.1408	87.0771	7.7951	147.4272		4.657	2.0093	2.0215	11688.33	5490.979	1373.901	2429.786	3037.467	954.1926	8204.663	609.7495	0.7008	123126.5	147840.9	8814.413	139026.5	145005.3	1.9927
10.9271	125.5096	88.7215	8.0769	155.4156		5.8423	2.5747	3.104	12533.44	5234.172	1348.394	2728.131	3973.506	847.2328	10927.14	283.4771	1	115872.1	142983.1	11210.62	131772.5	139374.4	3.0256
12.0269	124.7537	89.0735	6.7241	146.8239		6.2021	2.6214	3.0553	12090.86	5156.216	1340.651	1997.016	4361.982	833	11994.93	283.2404	0.9973	115445.4	143623.6	12278.17	131345.4	139671.2	2.9712
11.2747	107.0823	87.0443	7.3495	147.7855		5.7033	2.3478	2.7693	11777.75	5264.285	1351.385	2048.211	3852.093	859.7745	10569.28	282.7635	0.9397	117877.3	144629.3	10852.04	133777.3	141136	2.7024
11.2116	117.2204	87.0817	9.8172	150.5231		6.2113	2.4844	2.9707	11630.09	5154.226	1340.554	2128.707	3771.701	833	10336.91	283.2459	0.9171	116958	143478.1	10620.15	132858	140059.5	2.8999
11.8943	89.6787	87.1655	8.5834	154.9778		4.9398	2.1119	2.4213	12178.48	5429.716	1367.816	2279.907	3770.362	928.6766	10303.47	282.0106	0.8663	119897.1	146382.5	10585.47	135797.1	142975.1	2.3649
11.6078	177.6966	86.0717	8.4227	148.1199		7.334	3.1276	3.9194	11501.37	4910.975	1316.293	1818.092	4221.009	833	11607.78	285.2056	1	111127.8	138920.8	11892.99	127027.8	135092.5	3.8113
12.5415	79.8205	87.1562	8.3369	152.489		4.5456	1.9864	2.2217	12019.09	5515.111	1376.298	2122.086	3549.348	964.2439	9636.394	300.7404	0.7684	121376.7	142713.8	9937.134	137276.7	144015.1	2.741
12.4501	121.1209	88.1744	8.2335	152.4271		6.0362	2.4884	2.9768	11886.69	5192.158	1344.221	1905.897	4509.416	833	12399.398	283.0203	0.996	115599.6	144182.6	12683	131499.6	140099.9	2.8925
11.5797	106.7751	87.3616	9.2128	154.5451		5.7877	2.3526	2.7764	12077.51	5245.998	1349.569	2524.827	3702.96	852.1583	10124.16	282.8277	0.8743	118126.9	144433.9	10406.99	134026.9	141083.9	2.712
11.1314	114.1247	86.5453	8.3918	151.4775		6.0024	2.439	2.9038	11898.5	5199.471	1344.947	2194.6	3864.48	833	10609.85	283.6031	0.9531	117137.4	143930.3	10892.92	133037.4	140423.9	2.8331
9.8669	139.4809	87.2375	8.7243	153.7046		4.4808	2.7656	3.3854	12067.84	5529.163	1377.694	2200.925	3587.96	970.0964	9866.893	284.2496	1	115057.4	141108.5	10151.14	130957.4	137840.9	3.307
11.7033	136.7052	88.0086	7.8579	145.3433		6.5221	2.6896	3.2735	11649.37	5086.883	1333.765	1737.98	4255.399	833	11703.28	283.7589	1	114478.9	142365.9	11987.04	130378.9	138507.3	3.1847
10.7402	98.5518	86.598	5.7718	143.0636		5.6022	2.3248	2.632	11563.3	5264.429	1351.399	2316.195	3369.444	859.8345	9020.544	419.08	0.8568	119376.7	144898.3	9621.624	135276.9	141801.1	2.5804
12.1522	142.389	86.7799	8.1104	146.1967		7.1421	2.7602	3.3776	11501.22	4952.553	1320.423	1815.507	4177.734	833	11464.77	284.0212	0.9434	114080.6	141729.4	11748.79	129980.6	137947.5	3.2875
11.3653	102.115	88.0724	7.2578	141.7068		5.5054	2.2839	2.675	11451.98	5307.174	1356.645	1706.213	3803.315	877.6379	10423.59	282.5655	0.9171	118471.6	145077.8	10706.15	134371.6	141631.5	2.6115
11.6919	159.7542	87.4901	8.1693	150.9715		5.3881	2.9435	3.6479	11975.19	5332.585	1358.169	1742.614	4251.599	888.2215	11691.9	284.5907	1	112508	140384.4	11976.49	128408	136529.2	3.5477

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
10.4747	111.1531	86.8386	9.5151	152.0403		5.0471	2.4033	2.8511	11756.28	5406.643	1365.507	1854.336	3808.983	918.9919	10474.71	282.9591	1	117503.8	144161.5	10757.67	133403.8	140698.6	2.7827
11.3227	129.8279	88.0699	10.1338	143.6434		6.5785	2.6229	3.1751	11195	5074.65	1332.55	1513.654	4039.147	833	11101.64	283.6152	0.9805	115384.3	142669.5	11385.25	131284.3	139004.6	3.0935
10.8665	115.8246	87.2734	9.5031	150.0046		6.0935	2.4655	2.9429	11665.91	5179.738	1342.988	2125.273	3782.91	833	10386.32	283.1771	0.9541	117073.8	143643.3	10669.5	132973.8	140208.8	2.8725
12.0084	161.9427	87.5198	7.8881	146.5011		7.295	2.958	3.6693	11666.13	4919.413	1317.131	1827.881	4366.702	833	12008.43	284.5928	1	112194.6	140387.6	12293.02	128094.6	136430.5	3.5658
11.8496	124.8108	86.9278	7.1591	157.6246		4.7224	2.5456	3.0611	12573.52	5476.816	1372.494	2064.957	4308.955	948.2939	11849.63	283.2705	1	115508	143540.9	12132.9	131408	139635.3	2.9778
11.9596	110.9494	87.259	9.0595	156.1155		5.0707	2.3701	2.8022	12208.15	5401.345	1364.998	1774.007	4348.944	916.86	11959.6	282.6861	1	116805.6	144947.8	12242.29	132705.6	141007	2.7261
11.0676	121.8103	87.9303	7.4354	146.2658		5.741	2.5262	3.0324	11773.65	5256.114	1350.573	1884.021	4024.571	856.3713	11067.57	283.2995	1	116161.8	143412.7	11350.87	132061.8	139758.8	2.9551
12.7357	100.08	87.9494	8.6789	148.5896		5.4588	2.252	2.6279	11778.77	5317.266	1356.647	1920.162	3900.85	881.8412	10639.48	282.4366	0.8354	118581.9	145403.8	10921.91	134481.9	141888.1	2.5644
11.8117	126.5806	89.0418	10.153	152.9556		5.9298	2.5678	3.0938	12066.48	5215.208	1346.511	1968.279	4295.145	839.3342	11811.65	283.3476	1	115359.1	143354.1	12095	131259.1	139460.7	3.0098
10.8942	106.4822	86.9084	8.8331	141.4693		6.5544	2.5479	2.8058	11045.27	5079.883	1333.07	2273.794	3123.522	833	8486.761	624.7539	0.779	118745.1	143756.6	9111.515	134645.1	140823.6	2.7597
12.5437	96.4342	87.8708	10.1092	154.4098		5.2644	2.2006	2.5522	12007.17	5359.388	1360.831	2069.219	3916.343	899.3853	10693.34	282.2601	0.8525	118949.1	145824.7	10975.6	134849.1	142291.7	2.4903
10.6215	156.7641	87.9946	9.124	148.0108		5.3717	2.9397	3.6422	11673.7	5336.132	1358.521	1824.995	3862.353	898.6968	10621.47	284.7302	1	113216.3	140022.5	10906.2	129116.3	136511.8	3.5509
10.5829	100.2919	86.1622	8.0245	141.944		6.3531	2.4921	2.6851	11091.19	5123.484	1337.4	2355.948	3039.357	833	8258.893	675.1247	0.7804	119495.5	144329.5	8934.017	135395.5	141453.6	2.6441
12.1718	160.5926	87.9784	7.4909	146.1366		7.2784	2.9396	3.6422	11762.16	4923.01	1317.489	1860.57	4426.093	833	12171.76	284.51	1	112233.7	140590	12456.27	128133.7	136580.3	3.5383
12.0827	128.98	87.6557	9.4534	148.4872		6.6016	2.6059	3.15	11612.05	5069.643	1332.053	1820.926	4154.428	833	11400.89	283.5224	0.9436	115325.2	142909.6	11684.41	131225.2	139148.4	3.0671
11.3552	132.111	87.5477	8.6169	147.8987		6.5848	2.6456	3.2085	11673.76	5073.284	1332.414	1925.42	4107.644	833	11294.84	283.666	0.9947	115083.6	142562.1	11578.5	130983.6	138835	3.2946
11.1957	138.6577	88.186	7.6141	135.1419		7.2172	2.757	3.3726	10888.65	4936.271	1318.806	1804.086	3594.483	833	9829.728	284.2251	0.878	115149.1	141163.1	10113.95	131049.1	137907.4	3.1248
12.1288	144.172	87.498	5.7457	149.887		6.4464	2.7639	3.3831	12253.61	5103.277	1335.393	2169.487	4410.453	833	12128.75	283.9459	1	113628.2	141940.9	12412.7	129528.2	137945.2	3.2879
11.1945	136.3682	85.1832	6.3338	154.5759		5.3631	2.6978	3.2855	11888.22	5343.839	1359.287	2119.447	4070.742	892.9089	11194.54	283.8508	1	114740.3	142118.7	11478.39	130640.3	138423.8	3.2001
11.3411	113.2938	87.94	7.113	146.8664		5.8932	2.4193	2.8747	11870.77	5223.146	1347.299	2037.382	4180.302	842.6402	11041.55	282.949	0.9736	117013.5	144238	11324.5	132913.5	140592.7	2.8021
12.0818	118.0318	87.1927	6.9124	155.8201		5.9647	2.4592	2.9337	12059.29	5207.639	1346.759	2358.17	4359.536	836.1817	11986.66	282.9732	0.9921	116093	144262.7	12269.63	131993	140313.1	2.8534
11.538	106.433	87.3656	9.3601	137.087		6.2522	2.4641	2.7947	10893.53	5145.358	1339.573	1654.5	3319.102	833	9019.915	476.0503	0.7818	118581.4	143977.3	9495.965	134481.4	140920.6	2.7419
10.8888	87.8818	87.3575	8.1411	141.4444		5.2289	2.1869	2.4092	11204.71	5367.066	1361.594	1847.561	3323.91	902.583	9064.137	444.3767	0.8324	120631.8	146034.0	9508.513	136531.8	142979.5	2.3641
11.1971	115.2358	87.1191	9.2075	143.5665		6.4462	2.5292	2.9594	11185.49	5103.318	1335.397	2079.297	3432.48	833	9362.456	385.5403	0.8361	117558.9	143206.9	9747.996	133458.9	140069	2.8982
12.0118	119.7855	86.7408	10.0675	156.0744		6.2895	2.5041	2.9998	11964.66	5137.268	1338.769	2266.326	3987.3	833	10923.31	283.2335	0.9094	116426.7	143533.3	11206.56	132326.7	139925.9	2.9244
11.0396	121.8131	88.5091	6.6991	149.5225		5.228	3.0333	12232.44	5367.26	1361.613	2184.508	4014.397	902.6639	11039.59	283.2405	1	116174.7	143397.6	11322.9	132074.7	139752.7	2.9562	
10.8728	105.416	87.6172	7.2896	149.8177		5.1767	2.3196	2.7277	12034.51	5378.379	1362.717	2030.361	3953.754	907.2948	10872.83	282.637	1	117902.1	144957.5	11555.46	133802.1	141366.6	2.6601
12.0038	102.7143	87.819	5.7665	144.2218		6.4366	2.2739	2.6604	11833.76	5322.063	1357.124	1732.323	4136.41	883.8394	11352.61	282.436	0.9458	117948.3	145483.3	11635.04	133848.3	141738	2.5919
10.9707	112.1543	88.9311	8.6275	147.8796		5.2107	2.4061	2.8552	11875.27	5371.006	1361.985	1846.723	3989.331	904.224	10970.66	282.9132	1	117162.5	144316.1	11253.58	133062.5	140693.6	2.7836
11.6959	117.6479	86.92	7.1691	158.4359		3.8804	2.4607	2.9358	12635.4	5659.241	1390.613	1906.202	4253.069	1024.274	11695.95	283.0112	1	116268.9	144147.8	11978.96	132168.9	140291.8	2.8573
11.3026	122.7564	87.1846	9.9483	146.1904		6.4389	2.5516	3.0698	11291.51	5104.907	1333.555	1805.8	3809.949	833	10445.59	283.4579	0.9242	116362.4	142991.5	10729.05	132262.4	139537.8	2.9956
11.1395	123.801	88.2656	6.529	151.0447		5.6095	2.5491	3.0662	12345.87	5284.605	1353.403	2386.903	4050.726	868.2378	11139.5	283.3668	1	115936.4	143259.3	11422.87	131836.4	139582.3	2.9875
10.6609	119.9884	87.6461	7.8384	144.1999		4.8602	2.5124	3.012	11508.26	5446.959	1369.521	1477.216	3876.702	935.8585	10660.93	283.3016	1	116530.9	143375.2	10944.23	132430.9	139852.2	2.938
12.8744	142.7166	87.7676	9.4645	144.3236		7.9192	2.8882	3.4554	11300.98	4805.842	1305.851	2531.134	3423.157	833	9259.757	430.9542	0.7192	114950.8	140541.5	9690.711	130850.8	137422.1	3.3839
10.6055	91.8595	87.2496	8.1379	144.5208		5.1618	2.1814	2.4864	11433.29	5381.6	1363.037	1899.631	3478.384	908.6365	9523.136	331.689	0.8979	120016.3	145771.1	9854.825	135916.3	142598.9	2.434
12.8292	178.0724	88.2027	10.4828	148.32		7.3975	3.0969	3.8742	11527.41	4897.212	1314.926	1415.114	4665.154	833	12829.18	284.9208	1	110595.6	139607.9	13114.1	126495.6	135388.3	3.7571
11.8971	128.8115	87.5978	8.5968	156.549		5.9985	2.5926	3.1304	12367.53	5200.335	1345.033	2260.817	4326.203	833.1394	11897.06	283.418	1	115111.2	143191.7	12180.48	131011.2	139270.8	3.0446
12.5527	124.9817	86.7158	8.5125	148.0444		6.5468	2.567	3.0926	11577.55	5081.52	1333.232	1910.034	4017.767	833	10985.42	283.4444	0.8751	115895.6	143064.5	11268.86	131795.6	139437	3.0141
12.4931	170.8107	87.2064	8.1918	142.6265		6.2289	3.0609	3.821	11269.58	4717.076	1297.035	1897.808	4212.485	833	11549.38	284.9959	0.9245	111683.9	139418.3	11834.38	127583.9	135608.8	3.7166
11.9085	130.085	87.1458	8.9601	134.2686		7.124	2.7092	3.3204	10497.88	4956.473	1320.812	1522.954	3462.637	833	9415.889	376.1001	0.7907	116081.2	141773.2	9791.989	131981.2	138621.2	3.1638
11.4444	147.9728	86.595	9.3761	134.3568		8.1976	3.0668	3.5501	10374.83	4723.852	1297.708	1826.958	3291.312	833	8944.259	357.0985	0.7815	114560.9	139942.3	9481.358	130460.9	136890.2	3.4815
10.4371	104.6505	88.6997	8.2737	155.0146		4.0293	3.3179	2.7252	12467.21	5626.977	1387.409	2244.664	3795.325	1010.836	10437.15	282.8778	1	118196.4	144813.3	10719.82	134096.4	141365.5	2.6603
11.1175	170.5102	87.6669																					

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
11.0444	124.8894	87.1476	6.4312	141.9458		5.2932	2.5645	3.089	11457.35	5353.13	1360.209	1429.093	4016.136	896.7786	11044.38	283.4292	1	115876.9	143104.7	11327.81	131776.9	139458.3	3.0102
11.3649	132.3552	87.4604	7.4866	146.6582		5.204	2.6468	3.2103	11728.82	5372.466	1362.13	1554.69	4132.706	904.8321	11364.94	283.6613	1	115029	142577.6	11648.61	130929	138827.9	3.1259
11.5252	117.5197	86.738	6.6021	145.635		6.6959	2.5906	3.0066	11233.69	5049.219	1330.204	2248.565	3370.881	833	9169.517	443.0906	0.7956	117384.8	142897.4	9612.608	133284.8	139803.1	2.947
12.4634	133.4703	86.8747	7.8951	135.4953		6.9675	2.6785	3.257	10701.36	4990.381	1324.18	1278.86	3872.938	833	10572	283.866	0.8442	115289	142044.9	10855.87	131189	138504.4	3.1768
12.3678	113.7163	88.3941	8.5695	138.4663		6.2905	2.4735	2.9261	11076.49	5137.063	1338.749	1836.796	3528.878	833	9585	320.9408	0.7848	117647	143452.9	9905.94	133547	140264.2	2.8624
11.2786	163.5583	85.9264	9.0522	149.5552		7.077	2.9941	3.7225	11496.93	4966.64	1321.822	1872.181	4101.292	833	11278.56	284.8163	1	112375.4	139838.7	11563.37	128275.4	136116.5	3.6234
11.7446	125.7493	86.9816	8.5808	154.7754		6.2698	2.5601	3.0825	12557.07	5141.547	1339.194	2583.287	4258.038	833	11709	283.3347	0.997	115485.1	143377.4	11992.34	131385.1	139517.1	2.9994
12.0654	125.8449	86.539	8.0105	156.4112		5.4363	2.5532	3.0724	12282.73	5322.127	1357.13	1930.198	4387.407	883.8657	12065.37	283.2696	1	115309.8	143558.5	12348.64	131209.8	139583.4	2.9873
11.6676	110.961	86.6567	8.7276	143.176		5.8402	2.3893	2.8305	11157.57	5234.63	1348.44	1304.514	4020.564	847.4235	11034.66	282.8506	0.9458	117252.5	144470	11317.51	133152.5	140826.9	2.7591
11.7749	139.3003	87.3221	8.8242	142.0406		7.2357	2.7572	3.3729	11149.88	4932.272	1318.408	1955.026	3709.173	833	10132.72	284.1861	0.8605	114954.3	141271.2	10416.9	130854.3	137918	3.2929
11.3517	149.6911	87.9033	8.0976	148.7712		6.4328	2.8443	3.5016	11872.79	5106.227	1335.686	2067.995	4127.885	833	11351.69	284.3127	1	113497.1	141033.1	11636	129397.1	137287.5	3.4086
10.8346	154.4981	87.3525	8.0335	148.4722		5.6027	2.9098	3.5891	11776.66	5286.085	1353.55	1926.323	3939.852	868.8542	10834.6	284.6007	1	113314.6	140333.8	11119.2	129214.6	136754.6	3.5064
12.8356	111.6841	87.4476	7.1737	157.2726		5.4376	2.3614	2.7895	12624.88	5321.845	1357.102	1992.702	4667.487	883.7486	12835.59	282.5626	1	116307.8	145326	13118.15	132207.8	141103.2	2.7084
10.6783	114.6256	87.2051	5.3185	157.986		3.7626	2.444	2.9112	12936.95	5684.769	1393.149	2539.095	3883.026	1034.906	10678.33	283.2072	1	117054.3	143915.7	10961.4	132954.3	140387.2	2.8398
10.7697	116.9473	87.5753	10.1929	146.5481		6.0994	2.478	2.9613	11340.24	5178.473	1342.862	1771.984	3811.926	833	10474.05	283.2087	0.9725	116919.9	143577.1	10757.26	132819.9	140114.4	2.8899
11.7728	148.8708	86.9177	7.1018	148.6993		6.2021	2.8247	3.4727	11868.57	5156.209	1340.651	1855.714	4281	833	11727.75	284.1913	1	113388.1	141338.8	12056.94	129281.8	137457.7	3.3773
11.2331	151.4011	87.0851	9.2893	138.2387		7.6402	2.8899	3.5687	10754.39	4844.618	1309.702	1610.019	3755.051	833	10290.75	284.6102	0.9161	113815.4	140290.7	10575.36	129715.4	136886.5	3.4821
11.8051	181.658	85.2922	8.2229	149.5714		8.5317	3.1722	3.9851	11527.37	4651.463	1290.518	2203.402	4146.983	833	11391.23	285.3853	0.9649	10916.9	138493.5	11676.62	126816.9	134734.8	3.877
12.6647	107.177	87.8731	6.7364	155.0292		4.9689	2.3069	2.7092	12578.56	5423.413	1367.19	1854.547	4605.357	926.055	12675.3	282.4062	1	116842	145689.1	12947.14	132742	141521.5	2.6317
11.2754	159.1983	86.6776	6.8797	156.069		5.4007	2.9486	3.6554	12453.97	5329.854	1357.898	2376.998	4100.138	887.0843	11275.38	284.6666	1	112732.5	140192.6	11560.05	128632.5	136471.4	3.5583
12.2294	108.7118	87.0676	8.1621	149.5651		5.6359	2.343	2.7623	11882.28	5278.894	1352.836	1663.451	4319.239	865.892	11866.99	282.808	0.9704	110706.4	145126	12149.6	132976.4	141215.1	2.6879
12.0546	115.0911	86.52	8.2389	156.9717		5.4942	2.4209	2.8722	12287.92	5309.601	1355.886	1958.296	4383.491	878.6487	12054.6	282.8409	1	116348.2	144585.6	12337.44	132248.2	140614.2	2.7981
12.8214	79.423	86.6128	9.6292	134.6634		5.4971	2.2299	2.2443	10366.87	5308.967	1355.823	1531.079	2890.618	878.3846	7745.406	745.9507	0.6041	122127.7	146519	8491.312	138027.7	143785.7	2.2162
11.7377	119.6928	87.8687	8.1869	145.8995		6.2774	2.505	3.0012	11625.54	5139.901	1339.031	1961.951	3949.654	833	10827.67	283.2577	0.9225	116481	143491.9	11110.93	132381	139915.3	3.9264
12.205	73.9317	87.9035	9.6179	148.8352		4.7433	2.033	2.1051	11651.65	5472.282	1372.044	2297.455	3161.643	946.4054	8538.779	545.6137	0.6996	122512.7	147497.1	9084.392	138412.7	144572.8	2.0718
10.6106	155.9386	87.7097	9.0772	147.7654		6.385	2.9311	3.6295	11661.17	5116.59	1336.716	2072.455	3858.409	833	10610.63	284.7031	1	113290.3	140085.7	10895.33	129190.3	136578.5	3.5387
10.5428	88.7137	87.8334	9.5567	158.4099		5.0226	2.1421	2.42	12410.05	5411.777	1366.034	2848.599	3460.437	921.205	9474.384	342.7301	0.9987	120391.9	146109	9817.111	136291.9	142948.9	2.3697
11.7973	126.7042	86.9496	8.3062	137.816		6.9571	2.6644	3.1713	10838.32	4992.63	1324.403	1819.501	3466.782	833	9432.984	369.6050	0.7996	116307.8	145326	13118.15	132207.8	141103.2	2.7084
12.0688	98.0405	88.6832	7.05	155.7056		4.8733	2.197	2.5429	12710.75	5444.122	1369.247	2172.031	4388.771	934.677	12068.85	282.1117	1	118085.2	146336.2	12350.96	133985.2	142360.4	2.4777
11.4058	84.7411	88.2885	8.0764	147.7494		5.1476	2.1563	2.3469	11851.29	5384.679	1363.343	2503.652	3287.7	909.9187	8935.631	472.1124	0.7834	121045.9	146353.7	9407.755	136949.5	143325.3	2.3007
11.6212	128.8717	87.5632	8.9677	148.3713		6.4199	2.6007	3.1423	11661.32	5109.026	1335.964	1772.357	4208.969	833	11573.8	283.484	0.9959	115255.3	143012.6	11857.28	131155.3	139195.7	3.0584
11.7524	113.7938	87.1587	8.3438	142.4744		6.4419	2.519	2.9329	11229.1	5104.262	1335.941	2131.804	3422.542	833	9307.701	400.5476	0.792	117722.8	143331	9708.249	133622.8	140205.9	2.8731
12.9481	197.621	86.5501	8.4418	153.0759		7.306	3.2751	4.1371	11956.5	4917.033	1316.895	1779.178	4708.392	833	12948.09	285.473	1	109138	138271.5	13233.57	125038	134011.6	4.0097
11.382	163.7841	88.6698	7.8236	142.1021		6.3334	2.9937	3.7219	11565.15	5127.76	1337.825	1725.652	4138.917	833	11382.02	284.7999	1	112313.1	139879.9	11666.82	128213.1	136124.4	3.622
12.2563	158.2731	87.6892	8.5627	154.1175		6.5475	2.9131	3.6032	12194.77	5081.373	1333.218	2088.326	4456.85	833	12256.34	284.4123	1	112385.9	140826.7	12540.75	128285.9	136789.8	3.4999
11.6535	137.1945	86.9133	7.0022	158.645		4.7016	2.6964	3.2835	12677.5	5481.314	1372.941	2233.437	4237.644	950.1671	11653.52	283.7876	1	114457.5	142294.8	11937.31	130357.5	138452.2	3.1949
11.6597	128.7521	87.1903	9.1042	143.256		6.9294	2.6618	3.2049	1186.31	4998.626	1324.999	2106.09	3521.593	833	9597.351	320.1122	0.8231	116158.1	141975.5	9917.463	132058.1	138783.1	3.1341
11.214	105.4549	86.9449	7.0343	144.6985		5.6451	2.3284	2.7407	11882.58	5276.892	1352.637	2175.158	3810.864	865.0255	10452.24	282.7113	0.9321	118104.5	144739.5	10734.96	134004.5	141283.9	2.6753
9.8764	134.0921	87.2166	8.3337	144.2281		6.7317	2.7025	3.2923	11377.14	5041.46	1329.253	2185.473	3585.71	833	9860.474	284.7033	0.9984	115555.9	141600.4	10144.51	131455.9	138334.9	3.2164
11.9538	87.5432	87.0459	7.7124	152.5863		7.4222	3.2121	4.044	11505.41	4891.155	1314.394	2317.131	4346.83	833	11953.79	285.4278	1	110252.6	138391.8	12239.21	126152.6	134452	3.9289
12.2458	134.1975	88.8266	9.6273	145.2599		7.0333	2.6944	3.2804	11504.49	4979.111	1322.763	2209.768	3760.843	833	10259.18	283.9591	0.8378	115366.4	141807.6	10543.14	131264.5	138413.8	3.2019
10.9079	164.0722	88.1345	8.6941	146.6324		6.0268	3.0146	3.7527	11648.54	5194.129	1344.423	1980.408	3894.518	833	10709.93	284.9669	1	112575.3	139470.2	10994.89	128475.3	135930.9	3.6575
10.9843	117.2358	88.1372	9.2822	147.9054		6.0363	2																

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
11.5002	151.778	86.9361	9.3143	148.8166		6.3258	2.8633	3.5296	11551.42	5129.417	1337.989	1667.126	4181.885	833	11500.19	284.3549	1	113254.4	140939	11784.54	129154.4	137145.5	3.4346
10.2839	134.4137	87.5772	8.0649	143.447		6.4334	2.6964	3.2833	11405.81	5106.095	1335.673	1989.458	3739.583	833	10283.86	283.9625	1	115333.2	141801.1	10567.82	131233.2	138399.3	3.2046
11.7726	132.4861	87.372	6.7267	146.7109		6.6235	2.6426	3.2041	11831.55	5064.899	1331.581	1975.646	4224.423	833	11613.2	283.6164	0.9865	114903.1	142699.9	11896.82	130803.1	138870.3	3.1181
11.7618	118.7827	85.6223	9.7648	154.8071		6.241	2.4938	2.9846	11743.27	5147.782	1339.814	2073.497	3947.174	833	10819.4	283.2213	0.9199	116574.2	143576.8	11102.62	132474.2	140021.9	2.9103
11.2267	162.1327	88.1384	7.8862	152.1478		5.2825	2.9807	3.7027	12210.2	5355.465	1360.441	2112.118	4082.421	897.7513	11226.66	284.7794	1	112513.1	139924.6	11511.44	128413.1	136029.9	3.6046
9.7946	140.1419	86.8482	8.9378	147.8997		5.1222	2.775	3.3993	11522.92	5390.196	1363.891	1892.936	3561.682	912.2166	9794.627	284.2909	1	115029.8	141008.7	10078.92	130929.8	137764.3	3.3211
12.2382	135.9312	88.8907	10.3391	138.825		7.4057	2.7831	3.3359	10904.92	4895.422	1314.748	1997.724	3462.027	833	9399.081	383.5631	0.768	115535.9	141218.5	9782.644	131435.9	138069.5	3.2651
10.8661	94.3774	86.2192	11.1296	138.9611		7.212	2.6969	2.5988	10434.53	4937.405	1318.918	2598.036	2345.171	833	6268.754	1188.523	0.5769	120848.6	144205.9	7457.277	136748.6	141805.4	2.7596
12.2704	172.2469	87.8364	8.336	135.2937		8.292	3.0801	3.8493	10755.91	4703.407	1295.677	1373.324	4148.497	833	11375.43	285.0849	0.9271	111644.3	139204.8	11660.52	127544.3	135451.3	3.4455
11.7762	104.5912	88.4779	9.6729	133.4245		6.4531	2.5105	2.7668	10514.52	5101.834	1335.25	1682.682	3159.755	833	8551.808	603.3524	0.7262	118928.4	143983.6	9155.161	134828.4	141036.5	2.7206
11.7246	97.332	85.7471	8.6549	152.4533		5.6091	2.2872	2.6043	11752.97	5284.686	1353.411	2411.947	3432.659	868.2716	9338.112	382.304	0.7965	119466.5	145086.9	9720.416	135366.5	141957.9	2.5516
11.9516	160.822	87.6684	8.0889	145.8722		6.6392	2.9478	3.6543	11608.44	5061.517	1331.245	1634.659	4346.019	833	11951.56	284.5679	1	112309.6	140445.7	12236.12	128209.6	136506.9	3.5518
12.7409	100.2805	88.6708	8.8433	154.4285		5.3885	2.2425	2.614	12327.64	5332.49	1358.159	2224.328	4122.481	888.1822	11278.38	282.34	0.8852	118242.3	145703.7	11560.72	134142.3	141981.6	2.5472
11.9138	119.2892	89.8103	8.2491	142.9832		5.396	2.4764	2.9591	11661.88	5330.876	1357.999	1351.21	4332.286	887.5096	11913.79	283.0376	1	116005.7	144102.6	12196.83	131905.7	140176.4	2.8785
12.0927	135.7928	87.6404	5.5161	142.9981		6.881	2.6859	3.268	11743.62	5009.118	1326.041	2014.095	4159.37	833	11414.65	283.7835	0.9439	114692.4	142290.8	11698.43	130592.4	138525.1	3.1815
11.4128	113.2147	86.8176	8.8677	143.3741		6.415	2.5156	2.9223	11176.01	5110.08	1336.069	2087.271	3407.585	833	9280.479	483.015	0.8132	117790.5	143379	9688.494	133695.0	140260.3	2.8631
11.3699	125.7115	86.8296	8.8685	142.6853		6.4835	2.5784	3.1094	11123.9	5095.236	1334.595	1499.489	3959.579	833	10872.44	280.4959	0.9562	115878.7	142934.7	11155.93	131778.7	139343.6	3.0313
12.1225	126.6735	87.2426	7.403	151.6193		4.853	2.5619	3.0851	12105.23	5448.515	1369.683	1540.349	4408.178	936.5063	1222.49	283.291	1	115205.6	143511.4	12405.78	131105.6	139518	2.9993
11.4232	92.4169	87.1448	8.623	143.6757		5.5997	2.2814	2.5096	11281.67	5286.736	1353.615	2100.797	3269.394	869.1257	8882.179	496.1651	0.7776	120172.6	145451	9378.344	136072.6	142432.1	2.4646
9.9432	113.2994	86.6984	8.3587	144.6438		6.1447	2.4811	2.9196	11331.35	5168.655	1341.887	2124.68	3461.127	833	9503.568	344.1512	0.9558	117714.2	143461.9	9847.719	133614.2	140291.9	2.8573
11.5209	159.6239	86.3753	6.5719	141.9711		6.2123	2.9466	3.6525	11329.78	5154.007	1340.432	1410.939	4189.401	833	11520.85	284.6253	1	112592.1	140297.6	11805.48	128492.1	136497.4	3.5535
11.3124	106.3216	88.5804	7.9816	157.6009		4.2616	2.3228	2.7325	12699.23	5569.098	1381.266	2246.136	4113.602	866.7294	11312.41	282.6012	1	117592.3	145087.4	11595.01	133492.3	141354.9	2.6622
12.4289	122.6909	85.8205	7.9664	149.749		6.2429	2.5159	3.0173	11658.57	5147.367	1339.772	1559.48	4376.954	833	10204.16	283.1532	0.9674	115627.2	143834.5	12307.31	131527.2	139872.8	2.9342
10.8272	107.5223	87.017	9.7495	140.7012		6.3243	2.4927	3.1819	10871.64	5129.732	1338.021	1891	3277.888	833	8934.397	501.0798	0.8252	118492.4	143827.9	9435.477	134392.4	140790.6	2.7658
11.6515	86.4925	87.4372	8.8498	140.0361		5.6025	2.2725	2.3924	11285.16	5286.135	1355.555	2306.391	3068.199	868.8754	8294.876	313.5071	0.7119	1121068	145896.3	8928.383	136968	143022.3	2.3563
10.9498	132.6462	87.9112	8.0162	136.3289		7.0471	2.7028	3.2742	11061.99	4973.12	1322.466	1850.556	3510.853	833	9600.327	619.8407	0.8768	1157838	141608.5	9920.168	131688.3	138415.2	3.2016
11.178	103.0262	88.1989	6.5121	141.7999		5.6114	2.306	2.7076	11583.19	5284.206	1353.364	2049.18	3626.364	868.0717	9922.505	283.6924	0.8877	118622.2	144727.4	12025.2	134522.2	141442.3	2.6462
11.117	131.1477	88.2463	7.2515	158.7669		3.206	2.6383	3.1977	12859.28	5805.372	1405.127	2119.107	4042.54	1085.138	11116.99	282.6641	1	115254.4	142555.1	11400.65	131154.4	138885.2	3.1154
12.7635	153.9915	88.006	8.3622	144.183		7.54	2.8736	3.5448	11443.27	4866.326	1311.859	1685.276	4384.812	833	12032.66	284.315	0.9427	112836.1	141053	12316.97	128736.1	137088.2	3.4451
11.7131	166.8885	86.5189	8.4965	146.6336		7.5105	3.0167	3.7559	11480.71	4872.723	1312.494	1761.164	4259.325	833	11713.15	284.8271	1	111924.3	139822.2	11997.97	127824.3	135960.1	3.6521
11.0683	141.8027	86.5778	8.7924	146.0816		7.1131	2.7705	3.3927	11363.02	4958.383	1321.047	1928.851	3919.291	833	10769.24	284.1469	0.973	114443.8	141397.2	11053.38	130343.8	137839.1	3.3073
11.5696	102.2343	86.3904	6.5829	155.6192		4.1892	2.2633	2.6447	12418.62	5592.348	1383.969	1386.785	4207.109	996.4129	11569.55	282.3786	1	117891.2	145643.1	11851.93	133791.2	141828	2.5754
11.257	130.4927	87.0781	10.2526	148.5939		6.7067	2.6398	3.2	11415.8	5046.882	1329.792	1902.487	3901.638	833	10711.08	283.7198	0.9515	115502.2	142397	10994.8	131402.2	138857.7	3.1204
11.4923	92.0787	87.7963	6.0318	148.636		5.4947	2.2536	2.4996	12153.14	5309.82	1355.25	8821.865	3325.538	878.5994	9040.528	455.0941	0.7867	120156.8	145552.5	9495.622	136056.8	142495.8	2.4529
12.5317	142.3721	87.138	7.5158	148.3221		6.5931	2.734	3.339	11809.75	5071.495	1332.236	1614.044	4556.972	833	12531.67	283.7963	1	113604.2	142319.6	12815.47	129504.2	138194.3	3.2422
10.846	115.0327	87.0382	8.2602	154.7586		5.4376	2.4457	2.9137	12191.57	5321.86	1357.104	2282.844	3944.009	883.7547	10846.03	283.0558	1	116933.2	143962.3	11129.09	132633.3	140379.8	2.8411
10.1517	127.8993	88.8347	8.3744	154.8588		5.003	2.6213	3.1726	12459.98	5416.011	1366.455	2661.019	3691.527	922.9688	10151.7	283.7273	1	116005	142340.5	10435.43	131905	139891.3	3.0978
11.524	132.9242	88.2921	10.2831	144.799		6.8278	2.667	3.2401	11295.62	5020.633	1327.185	1781.217	3931.588	833	10785.39	283.8009	0.9359	115524	142211.2	11069.19	131142	138648	3.1589
12.4004	114.6175	86.91	9.1767	139.4217		6.2484	2.4637	3.2401	10837.71	5146.177	1339.654	1534.823	3582.059	833	9736.892	283.2453	0.7852	117506	143426.1	10020.14	133406	140206.6	2.874
11.7681	149.548	88.3802	7.1484	137.0265		7.638	2.872	3.5423	11130.92	4845.11	1309.751	2012.233	3728.822	833	10189.72	284.564	0.8659	114019.8	140394	10474.28	129919.8	137022.4	3.4572
11.9383	179.0489	87.7016	7.866	144.1084		7.0464	3.1314	3.9251	11504.97	4973.289	1322.482	1633.013	4341.188	833	11938.27	285.1678	1	110889.3	139012.7	12223.44	126789.3	135078	3.814
10.8089	161.9314	86.7111	9.1328	145.0639		5.1211	2.9896	3.7159	11828.34	5390.434	1363.914	1829.171	3930.505	912.3155	10808.89	284.8694	1	112707.8	139701.6	11093.76	128607.8	136130.5	3.6209
11.4506	106.0375	88.1171	8.8542																				

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
12.9042	90.311	87.6488	10.0158	152.7695		5.313	2.1933	2.4577	11859.95	5348.843	1359.784	2423.976	3430.358	894.993	9279.119	392.718	0.7191	120276.5	145848.3	9671.837	136176.5	142735	2.409
11.236	147.5524	87.5105	9.6535	145.9677		6.9544	2.8236	3.4711	11364.6	4993.204	1324.46	1726.108	4085.83	833	11236.03	284.2603		113731.9	141152.2	11520.29	129631.9	137443.8	3.3799
11.7015	130.4773	87.5389	10.0753	148.9195		6.748	2.6382	3.1976	11535.85	5037.942	1328.904	2003.517	3930.486	833	10774.16	283.7065	0.9208	115474.6	142432.4	11057.87	131374.6	138872.9	3.1177
10.5873	148.0773	87.4458	9.5442	154.7663		5.118	2.8457	3.5035	12056.54	5391.101	1363.981	2136.95	3849.916	912.5936	10587.27	284.4215		113972.7	140744.4	10871.69	129872.7	137244.8	3.4164
11.0859	111.0996	86.6203	7.333	152.8937		5.1646	2.39	2.8316	12122.54	5381.012	1362.979	2036.913	4031.241	908.3916	11085.91	284.8474		117213.6	144482.4	11368.76	133113.6	140222.7	2.7599
11.4987	79.8673	87.7399	8.9851	153.2547		4.4832	1.9794	2.2218	12069.54	5528.641	1377.642	2238.514	3552.862	969.8791	9695.162	287.0181	0.8432	121349.5	147231.7	9982.18	137249.5	144018.4	2.1735
10.7334	129.5002	85.963	7.5035	155.7991		4.9725	2.6274	3.1817	12223.93	5422.631	1367.112	2203.39	3903.067	925.7256	10733.43	283.6757		115584.8	142502	11017.11	131484.8	138955.5	3.1025
11.1047	104.0386	87.0872	9.2048	146.2051		5.6793	2.323	2.7327	11386.8	5269.49	1351.902	1933.765	3567.702	861.9427	9756.852	282.7673	0.8786	118595.9	144535.5	10039.62	134495.9	141303.8	2.6716
10.6047	137.125	85.9575	7.3424	157.1458		4.5793	2.7206	3.3191	12354.03	5597.815	1375.573	2251.166	3856.271	961.205	10604.75	284.0022		114938.9	141727.6	10888.75	130838.9	138222.5	3.237
10.3215	114.8305	86.8833	8.5176	156.6497		5.0618	2.4542	2.9261	12275.96	5403.266	1365.189	2434.563	3753.283	917.6604	10321.53	283.1464		117204.6	143709.3	10604.68	133104.6	140295.6	2.8566
11.0445	151.0038	87.0301	9.4718	143.0535		6.1178	2.8665	3.5342	11094.98	5174.467	1342.464	1326.878	4016.168	833	11044.47	284.4278		113519.7	140748.6	11328.9	129419.7	137101.9	3.4426
12.5486	168.6168	87.8793	5.6242	152.5561		5.7756	3.0115	3.7484	12548.52	5248.623	1349.829	2131.706	4563.109	853.2517	12548.55	284.6883		111435.7	140168.9	12833.24	127335.7	136037.9	3.6379
11.8554	96.5858	87.8927	7.7625	144.7361		5.3483	2.2193	2.5798	11597.73	5341.211	1359.026	2009.172	3594.512	891.8143	9798.247	282.4125	0.8265	119382.4	145363.1	10080.66	135282.4	142118.1	2.5222
12.0489	150.096	87.3526	9.2003	152.089		6.4225	2.8311	3.4822	11886.1	5108.467	1335.909	1825.304	4381.42	833	12048.91	284.1748		113156.1	141389.2	12333.09	129056.1	137419.2	3.3844
9.6152	174.2715	86.9045	7.7064	140.9131		5.5294	3.1656	3.9489	11160.05	5301.956	1355.127	1729.054	3496.446	875.4645	11655.227	320.4005		112197.3	138032.9	9935.628	128097.3	134834.6	3.8587
12.3318	138.7032	85.1143	6.6048	143.9627		7.2069	2.7442	3.3539	11302.44	4938.509	1319.028	2004.258	3805.641	833	10384.24	284.1097	0.8421	114895.2	141463.5	10668.35	130795.2	138029.4	3.2724
12.5517	194.8247	88.3024	7.7832	147.6293		6.7583	3.2617	4.1174	11887	5035.698	1328.681	1723.38	4564.237	833	12551.65	285.4938		109490.8	138227.9	12837.15	125390.8	134095.7	3.9942
12.7877	111.101	87.2978	5.5461	140.6097		5.8521	2.3794	2.816	11495.08	5232.05	1348.183	1431.014	4235.48	846.3489	11601.88	282.7557	0.9073	116963.6	144748.3	11884.63	132863.6	140922.6	2.7415
12.0115	122.7836	88.3232	9.3163	145.6497		6.3917	2.5377	3.0494	11507.33	5115.14	1336.571	1776.371	4044.247	833	11087.33	283.3355	0.9231	116058.6	143329.3	11370.66	131958.6	139669.1	2.9716
11.766	101.8646	87.4629	6.61	155.9222		3.6961	2.2545	2.6318	12606.76	5699.183	1394.58	1791.54	4278.55	1040.91	11766.01	282.3297		117832.5	145780.9	12048.34	133732.5	141902.5	2.5617
10.7364	99.1563	87.3665	8.483	153.8871		5.1065	2.2375	2.6066	12139.15	5393.599	1364.229	2162.113	3903.579	913.6339	10734.83	282.3787	0.9999	118633.6	145550.8	11017.21	134533.6	142004.3	2.5431
11.6566	123.8795	87.7429	8.5827	143.346		4.6562	2.5575	3.0786	11347.28	5101.163	1335.183	1735.668	3940.271	833	10804.37	283.4347	0.9269	116085.8	143073.6	11087.8	131985.8	139504.5	3.0018
11.4013	174.9657	86.0685	9.7774	150.7704		7.6188	3.1065	3.8882	11500.91	4849.259	1310.163	1960.552	4145.938	833	11401.33	285.1677		111422.5	139009	11686.5	127322.5	135247.2	3.783
11.8022	92.0741	86.5069	10.6786	153.7508		5.0446	2.1445	2.4694	11660.17	5406.998	1365.56	1763.638	3802.764	919.2146	11401.33	282.1015	0.8813	115977.9	146161.3	10683.43	135477.9	142722.3	2.4113
11.6589	114.7186	86.6228	7.232	147.8412		5.9063	2.4291	2.8893	11737.24	5220.292	1347.016	1764.32	4162.164	841.4517	11440.05	282.9368	0.9812	116679.8	144302.7	11722.99	132579.8	140529.1	2.8137
10.6049	107.16	87.52	8.8742	140.5195		5.7262	2.3616	2.7896	11051.27	5252.833	1350.248	1571.208	3619.979	855.0048	9930.824	282.879	0.9364	118181	144294.8	10213.7	134081	141007	2.7261
10.613	188.6724	85.9843	8.621	143.0119		7.9417	3.2616	4.1169	11063.88	4779.298	1303.215	1887.093	3859.277	833	10613.01	285.804	1.10709.1	137508	10898.82	126609.1	133999.6	140119	
12.3882	143.2064	88.3162	8.0294	144.4526		6.5327	2.7468	3.3579	11597.64	5084.574	1333.536	1439.738	4504.792	833	12388.18	283.8564		113596	142168	12672.04	129496	138088.9	3.2615
10.824	108.9842	87.3816	10.1545	147.0594		5.4692	2.3678	2.7988	11356.97	5315.003	1356.422	1466.64	3936.007	880.895	10824.02	282.8023		117556.6	144563.4	11106.82	133456.6	140988.1	2.7295
11.233	123.2615	88.4763	7.9375	149.5269		5.4252	2.5404	3.0534	12042.72	5324.534	1357.369	1989.223	4084.724	884.8684	11233	283.3269		115944.3	143360.6	11516.32	131844.3	139653.5	2.9744
11.5105	125.5574	86.2574	8.8794	159.0214		6.0505	2.5622	3.0856	12304.76	5189.051	1343.913	2351.176	4185.618	833	11510.45	283.3656		115595.9	143289.7	11793.82	131495.9	139493.2	3.0038
10.7864	118.6086	88.312	7.4566	153.129		4.922	2.4923	2.9824	12381.31	5433.56	1368.198	2324.964	3922.314	930.2779	12708.37	283.2203		116607	143576.6	11069.59	132507	140013.3	2.9084
10.839	151.3777	86.9449	5.6592	149.9131		4.2517	2.8758	3.2475	12185.67	5578.807	1382.624	1890.114	3941.468	990.7732	10839.05	284.487		113577.7	140601.2	11123.54	129477.7	137020.6	3.4575
10.5376	115.206	86.4747	6.6044	158.9523		4.2164	2.4544	2.9265	12866.79	5586.455	1383.384	2489.019	3831.857	993.9586	10537.61	283.1227		117063.5	143784.2	10820.73	132963.5	140301	2.8556
12.0092	123.9796	86.8608	8.7652	158.2524		5.2408	2.5319	3.0409	12358.82	5364.483	1361.337	1962.514	4366.983	901.5071	12009.2	283.2071		115511.9	143704.3	12292.41	131411.9	139747.4	2.9572
12.0214	151.9027	87.9641	7.7683	150.5529		7.1557	2.8514	3.5121	12073.7	4949.603	1320.13	2197.79	4371.181	833	12020.74	284.2446	0.9999	113016.1	141221	12304.99	128916.1	137260.1	3.4136
10.2744	106.2705	88.125	8.4635	158.6504		6.2429	2.762	3.2638	11333.33	5452.184	1370.048	2739.901	3736.16	938.0348	10274.4	282.7787		118106.2	144563.4	10557.22	134006.2	141165	2.6971
11.1505	117.6115	87.429	9.1514	149.2031		6.1953	2.487	2.9746	11679.27	5157.685	1340.797	2138.068	3807.715	833	10446.04	283.2421	0.9368	116867.2	143496.5	10729.29	132767.2	140042.7	2.903
11.9635	193.3368	88.19	6.8091	156.8381		4.2463	3.2656	4.1229	12763.35	5579.978	1382.741	2057.003	4350.368	991.2606	11963.51	285.6005		109830.4	137979.6	12249.11	125730.4	134036.6	4.0015
12.0794	84.5115	88.2706	8.751	153.2205		4.6583	2.0331	2.3051	12184.05	5490.693	1373.873	2122.339	3841.069	954.0737	10498.51	281.7020	0.8691	120387.3	147067.5	10780.23	136287.3	143597.4	2.2507
11.5252	84.9312	87.2452	8.656	148.9643		4.8836	2.0881	2.3381	11706.99	5441.884	1369.025	2090.002	3470.333	933.7447	9455.988	284.4988		120837.2	146538.7	9801.487	136737.2	143383.6	2.29
11.7046	151.9354	86.0286	9.209	152.5531		5.9042	2.8598	3.5245	11719.07	5220.763	1347.062	1651.396	4256.202	841.6478	11704.56	284.3153		113151.7	141040.6	11988.87	129051.7	137181.4	3.428
11.928	125.7758	87.6339	8.1035	143.7071		6.5679	3.0964																

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
11.7807	122.9584	88.5726	8.727	154.3447		6.4125	2.5442	3.059	12323.75	5110.63	1336.124	2669.248	3972.749	833	10892.16	283.3801	0.9246	116133.4	143208.9	11175.54	132033.4	139611.5	2.9821
11.0971	106.1188	87.9558	10.0768	156.2073		5.4338	2.3246	2.7352	12165.26	5322.674	1357.184	2163.013	4031.695	884.0937	11087.04	282.6311	0.9991	117723.8	144993.5	11369.67	133623.8	141333.6	2.6661
10.3524	65.1213	86.6631	7.4206	154.353		3.8756	1.8142	1.8874	12231.32	5660.279	1359.716	2423.037	3330.583	1024.706	9109.07	406.2539	0.8799	123414.5	148829.9	9515.324	139314.5	145766.9	1.8526
12.3528	88.9789	88.0586	9.1516	153.6542		4.8948	2.0972	2.3996	11214.38	5439.456	1368.784	2112.57	3868.839	932.7333	10565.49	281.9279	0.8553	119841.8	146589.3	10847.41	135741.8	143097.5	2.3425
11.1615	88.2366	86.0459	8.8731	150.8707		5.2788	2.1969	2.4174	11643.12	5356.269	1360.521	2309.243	3316.999	898.0858	9031.321	452.978	0.8091	120602.1	145986.4	9484.299	136502.1	142933.4	2.3726
10.311	96.6748	86.4334	10.1984	158.7845		4.2321	2.211	2.5676	12104.93	5583.035	1383.044	1994.88	3749.438	992.5343	10310.96	282.3332	1	119115.1	145608.4	10593.29	135015.1	142198.4	2.5074
10.7091	131.2653	88.4341	9.7657	153.0368		5.7947	2.6491	3.2137	12039.16	5244.482	1349.418	2297.531	3894.205	851.5267	10709.07	283.7509	1	115430.9	142323.8	10992.82	131330.9	138785.2	3.1338
12.0942	93.7562	87.929	9.8138	133.2523		6.6278	2.5399	2.5674	10409.03	5063.966	1331.489	2070.265	2708.308	833	7254.174	923.8062	0.5998	120579.2	144657.2	8177.98	136479.2	142024.7	2.5393
11.4701	164.1615	86.5884	7.9108	156.1104		4.4324	2.9953	3.7242	12282.4	5400.453	1364.91	2027.611	4170.94	916.4884	11470.09	284.7922	1	112245.3	139900.1	11754.88	128145.3	136116.2	3.6235
11.2114	85.8217	86.6388	5.3059	144.0447		5.2118	2.176	2.3669	11715.58	5370.774	1361.962	2399.411	3277.305	904.1271	8914.686	478.7732	0.7951	120925.9	146219.3	9393.459	136825.9	143195.6	2.3245
10.82	126.049	87.22	7.9837	153.3763		4.4324	2.5837	3.1172	12152.98	5539.645	1378.735	1923.605	3934.529	974.4621	10819.96	283.5199	1	115871	142874.5	11103.48	131771	139300.3	3.0392
11.6315	149.1719	86.7126	7.1745	152.081		6.1704	2.8316	3.4828	12096.25	5163.078	1341.333	2127.207	4229.63	833	11631.49	284.2328	1	113418.4	141234.1	11915.72	129318.4	137398.4	3.3882
12.4956	99.2342	86.9891	9.5218	138.7087		6.2882	2.4565	2.661	10745.39	5137.548	1338.797	1920.933	3113.112	833	8389.148	637.6774	0.6714	119570.1	144496.9	9026.826	135470.1	141591.2	2.6189
11.897	118.1963	87.7855	8.7601	142.5758		6.317	2.4987	2.9918	11267.11	5141.327	1338.179	1811.504	3751.095	833	10247.77	283.3042	0.8614	116903.3	143334.4	10531.07	132803.3	139944.4	2.921
11.6552	116.6769	86.128	8.7236	146.3121		6.263	2.4837	2.9696	11325.21	5143.013	1339.34	1930.554	3677.3	833	10046.54	283.277	0.862	117150.5	143380.3	10329.81	130505.1	140055.1	2.9007
11.1037	121.3819	87.454	8.7618	144.6797		6.2286	2.5242	3.0294	11385.17	5150.476	1340.081	1688.504	3971.108	833	10915.6	283.3109	0.9831	116274.9	143373.8	11198.91	132174.9	139768.8	2.9533
11.1157	131.8691	88.4486	7.7621	151.5232		5.7162	2.6469	3.2104	12247.25	5261.499	1351.108	2331.975	4042.057	858.6145	11115.66	283.6926	1	115188.2	142487.6	11399.35	131088.2	138818.1	3.1277
11.6642	126.4079	86.6262	6.8002	148.5199		6.3241	2.5703	3.0976	11855.76	5129.78	1338.026	1931.826	4221.127	833	11607	283.3805	0.9951	115470.6	143261	11890.38	131370.6	139433.5	3.0148
10.9271	122.575	86.2489	6.2126	153.1884		4.6501	2.5387	3.0509	12260.63	5492.468	1374.049	2063.795	3973.505	954.8127	10927.14	283.3577	1	116153.9	143264.4	11210.5	132053.9	139655.8	2.974
11.258	81.2067	87.0246	8.0168	154.0132		4.6788	2.0336	2.256	11268.25	5486.258	1373.432	2494.071	3460.265	952.2265	9439.664	347.5048	0.8385	121283.3	146970.4	9787.169	137183.3	143820	2.2099
11.4125	119.9362	88.2525	9.5991	147.2464		6.3189	2.5155	3.0166	11581.44	5130.908	1338.138	2052.018	3825.377	833	10484.91	283.2328	0.9187	116619.2	143287.5	10768.25	132519.2	139821.2	2.9437
12.4403	113.3283	87.8223	10.0511	135.9187		7.2309	2.7131	2.9482	10570.56	4933.312	1318.512	2085.24	2998.495	833	8064.896	758.7853	0.6483	118150.2	142873.9	8823.681	134050.2	140033.5	2.9047
11.4906	105.4122	87.8001	7.5053	156.4209		6.3589	2.3072	2.7095	12559.78	5711.57	1395.811	1825.926	4178.403	1046.609	11490.61	282.531	1	117599.9	145272.1	11773.14	133498.9	141482.3	2.6388
10.7868	129.3087	87.5911	8.6086	155.5418		6.5178	2.6253	3.1785	11495.26	5087.813	1333.857	1937.603	3900.985	833	10726.51	283.6966	0.9944	115606	142516.2	11010.18	131506	138972	3.0995
10.8705	107.8394	87.3571	7.3108	150.7058		5.6089	2.3537	2.778	12063.45	5284.745	1353.417	2236.865	3918.124	868.2961	10772.65	282.2131	0.991	117699.5	144654.9	11055.41	133599.9	141096.2	2.7097
12.5602	82.4264	88.255	6.9691	147.55		5.1722	2.5121	2.2956	11993.73	5379.346	1362.813	2717.013	3224.858	907.6976	8705.508	524.2132	0.9391	1214005.5	146653.1	9229.721	137305.4	143564	2.2569
11.3337	122.6549	87.8414	7.4686	152.3056		4.5267	2.5307	3.0391	12241.23	5519.222	1376.706	1855.989	4121.359	965.9558	11333.74	283.2831	1	115955.2	143472.2	11617.02	131855.2	139732.7	2.9599
12.2286	95.5515	86.3124	6.9397	154.7547		5.1113	2.1757	2.5155	12283.27	5392.557	1364.125	2064.294	4147.089	913.1999	11373.28	282.1107	0.9301	118702.6	146258	11655.39	134602.6	142506.1	2.451
10.4173	137.8202	86.5819	8.3583	151.135		6.0918	2.7332	3.3376	11822.32	5180.115	1343.025	2276.071	3788.111	833	10417.31	284.0684	1	114960.4	141561.8	10701.38	130860.4	138117	3.2564
12.1362	136.0857	87.0311	8.8705	148.2305		7.0504	2.7086	3.3013	11585.78	4972.417	1322.396	2178.461	3877.507	833	10600.88	283.9626	0.8735	115035.4	141820.3	10884.84	130935.4	138316.4	3.2198
11.2876	149.3855	87.2779	7.6612	155.8944		5.088	2.8426	3.499	12411.79	5397.605	1364.627	2227.674	4104.587	915.3024	11287.62	284.3157	1	113551.4	141023.4	11571.93	129451.4	137298.4	3.4066
11.7127	112.5685	86.3133	7.8209	150.8406		6.0438	2.4257	2.8842	11839.84	5190.503	1344.057	2130.482	3759.798	833	10281.71	283.0557	0.8778	117456.2	143917.4	10564.77	133352.6	140516.6	2.816
12.3898	113.645	86.7746	10.5959	142.5255		6.9065	2.6309	2.9439	10857.41	5003.583	1325.491	2107.867	3185.465	833	8599.857	604.4338	0.6941	117953.2	143057.5	9204.291	133853.2	140094.6	2.8935
10.913	173.3859	87.4612	9.8798	141.8772		7.6461	3.1042	3.8849	11007.03	4843.355	1309.577	1650.731	3968.364	833	10913	285.2343	1	111747.9	138846.1	11198.24	127647.9	135241.4	3.784
11.2659	82.4407	87.9013	7.8363	141.3573		5.3502	2.206	2.3028	11317.76	5340.781	1358.983	2259.942	3064.421	891.6354	8300.454	622.0078	0.7368	121551.8	146374.2	8922.462	137451.8	143502.1	2.2682
11.1045	122.7427	86.6829	8.0238	144.1598		6.3538	2.5457	3.0611	11339.49	5123.341	1337.386	1746.283	3897.476	833	10705.48	283.4072	0.9641	116241.8	143130.7	10988.89	132141.8	139593.4	2.9855
10.892	113.5263	87.8103	8.9669	155.1773		4.734	2.4254	2.8838	12234.71	5474.304	1372.245	2078.181	3960.734	947.2478	10892.02	282.9861	1	117062.1	144137.1	11175	132962.1	140539.9	2.8118
11.7906	87.0395	85.3318	7.6258	146.9461		5.0301	2.1257	2.3849	11418.6	5410.141	1365.872	1860.259	3459.803	920.5237	9413.2	357.082	0.7984	120606.7	146277	9770.282	136506.7	143131.9	2.3362
11.4345	130.0131	86.0677	8.2485	157.6734		5.4909	2.6175	3.1671	12270.02	5310.3	1355.955	2164.804	4158.016	878.9398	11434.55	283.5562	1	115213.5	142831.6	11718.1	131113.5	139059.5	3.0834
10.4905	193.0799	87.2601	8.2519	142.4923		5.4364	3.3066	4.1832	11258.06	5322.12	1357.129	1478.222	3814.73	883.863	10490.51	285.9739	1	110439.9	137111.4	10776.48	126334.9	133645.5	2.9774
12.4819	122.1945	88.0844	8.5615	148.0614		6.4639	2.539	3.0513	11774.29	5099.479	1335.016	2187.849	3916.951	833	10698.05	283.3736	0.8571	116298.4	143179.8	10981.44	132198.4	139644.9	4.0776
12.9354	155.5734	88.1153	10.0283	146.8638		7.5434	2.8819	3.5571	11468.14	4865.587	1311.785	1553.458	4502.314	833	12362.42	284.2964	0.9557	112561.5	141108.2	12646.71	128461.5	137037.2	3.

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
11.143	122.5561	86.1165	8.4876	157.9629		5.4548	2.5337	3.0435	12262.48	5318.124	1356.732	2251.417	4052.012	882.1986	11143.04	283.3155	1	116054.3	143380.7	11426.35	131954.3	139702.5	2.9654
11.8031	180.4693	86.9074	8.445	150.8843		7.9122	3.149	3.951	11838.75	4785.68	1303.849	2222.193	4292.027	833	11803.08	285.2458	1	110837.8	138826.1	12088.32	126737.8	134934.9	3.8403
11.8001	140.7456	87.8448	8.6771	149.9971		5.9876	2.7335	3.3382	11874.93	5202.689	1345.267	1799.897	4290.955	834.1201	11800.13	283.8898	1	114075.1	12084.02	129975.1	138169.3	134993.8	3.2468
12.6992	182.9178	87.0561	7.0336	155.4091		6.6307	3.1469	3.948	12436.21	5063.356	1331.428	2188.531	4617.899	833	12699.22	285.1012	1	110289.1	139173.4	12984.32	126189.1	134993.8	3.8294
12.2537	164.7376	85.8482	7.2894	139.2456		8.0589	3.0082	3.7433	10938.97	4753.897	1300.692	1559.281	4090.097	833	11208.1	284.873	0.9147	112310.1	139703.1	11492.97	128210.1	136003.5	3.6442
11.4352	122.5058	86.7694	9.6374	153.5969		6.2167	2.5292	3.0368	11847.23	5153.044	1340.336	2001.362	4117.484	833	11320.43	283.2796	0.99	115975.8	143479.5	11603.71	131875.8	139744.3	2.9578
10.5658	74.0484	87.6609	7.2151	153.2235		4.078	1.8836	2.0846	12326.18	5616.436	1386.362	2301.088	3613.854	1006.446	9914.966	281.2682	0.9384	121940.7	148036.9	10196.23	137840.7	144754.8	2.0384
11.9026	136.8787	88.5049	9.7681	141.1532		7.0132	2.7112	3.3052	11113.95	4980.47	1323.196	1604.157	3971.128	833	10881.83	283.9351	0.9142	114835.8	141901.6	11165.77	130735.8	138307.3	3.2214
11.6908	119.4082	88.7623	9.1412	147.2556		6.4143	2.5221	3.0263	11724.65	5110.229	1336.084	2425.689	3617.644	833	9872.783	283.427	0.8445	116960.7	143016.9	10156.21	132860.7	139747.6	2.9572
12.0632	84.1138	86.8807	8.2349	156.5381		4.697	2.0365	2.3101	12311.07	5482.307	1373.04	2453.92	3649.22	950.5807	9946.073	281.7811	0.8245	120720.6	146848.5	10227.85	136620.6	143556.2	2.2583
11.7206	124.4376	85.5342	7.4362	158.4098		4.4546	2.5439	3.0586	12371.49	5534.829	1378.256	1821.898	4262.052	972.4562	11720.64	283.2805	1	115603.7	143507.6	12003.92	131503.7	139643.5	2.9762
12.086	91.5744	87.7692	7.7683	156.1744		4.9193	2.1218	2.436	12494.11	5434.16	1368.258	2249.721	4109.441	930.5276	11271.46	281.943	0.9326	119190.2	146643.6	11553.4	135090.2	142924.5	2.3742
12.3209	107.2893	87.4524	8.5726	149.2498		5.6082	2.3266	2.7382	11772.8	5284.892	1353.432	1581.592	4282.529	868.3577	11758.22	282.5662	0.9543	117274.5	145215.3	12040.79	133174.5	141339.4	2.6651
11.7585	158.0407	85.9024	7.8117	145.6389		6.3725	2.9237	3.6187	11373.04	4902.629	1315.464	1644.156	4275.796	833	11758.44	284.5167	1	112619.9	140562.7	12042.96	128519.8	136681.3	3.5189
11.3991	111.2395	86.1677	8.5282	140.6678		7.4745	2.5282	2.8889	10921.38	5097.197	1334.789	1932.382	3322.011	833	9034.679	476.6766	0.7926	118070.1	143481.5	9511.356	133970.1	140419.8	2.8338
11.8478	116.244	87.4433	9.8545	142.2833		6.2538	2.478	2.9612	11039.59	5145.01	1339.538	1636.953	3683.085	833	10053.98	283.257	0.8486	117190.3	143427.6	10337.24	133090.3	140100	2.8925
10.5104	114.5802	87.2619	7.5505	152.8051		3.5327	2.447	2.9155	12180.3	5734.585	1398.097	1767.992	3821.975	1055.655	10510.44	283.1009	1	117139.3	143832.8	10793.54	133039.3	140358.4	2.8451
12.966	128.7765	87.8539	9.3413	143.6215		6.4939	2.5809	3.1133	11276.09	5092.979	1334.37	1102.313	4511.43	833	12387.26	283.3207	0.9554	114887.4	143457.9	12670.58	130787.4	139379.3	3.0247
11.7262	91.4615	87.5202	8.6929	154.1219		4.9997	2.1344	2.4546	12149	5416.736	1366.527	2213.302	3827.165	923.2704	10475.31	282.0607	0.8933	119608.7	146266.1	10757.37	135508.7	142803.3	2.3965
12.4533	150.6404	87.9109	7.4251	156.6361		5.5524	2.8268	3.4758	12606.98	5296.984	1354.633	2151.504	4528.465	873.3939	12453.28	284.106	1	112932.4	141569.8	12737.38	128832.4	137469.6	3.3751
12.289	94.499	87.4968	7.1064	147.1343		5.7422	2.3128	2.5535	11828.19	5255.854	1350.548	2681.182	3282.342	856.2633	8881.21	499.2665	0.7227	119936.5	145217	9380.476	135836.5	142197.4	2.5076
10.632	142.3522	87.4791	8.9858	141.7728		6.9726	2.7803	3.4072	11128.22	4989.267	1324.069	1716.673	3863.208	833	10623.72	284.1988	0.9992	114460	141267.9	10907.92	130360	137756.6	3.3225
11.3968	136.9105	87.7712	9.4522	144.6493		7.0735	2.725	3.3255	11328.79	4967.406	1321.898	2038.364	3766.125	833	10314.98	284.0544	0.9051	115089.6	141588.7	10599.04	130989.6	138176.8	3.2454
10.5479	142.8467	89.0045	9.7992	146.4741		6.53	2.7878	3.4182	11601.53	5085.156	1333.593	2112.173	3835.607	833	10547.92	284.2338	1	114449.9	141182	10832.16	130349.9	137695.1	3.3338
12.453	93.103	86.5016	9.847	138.1061		6.1893	2.4248	2.5406	10586.48	5158.984	1340.926	1887.507	2964.06	833	7966.55	734.7409	0.6397	120408.9	145010.2	8701.291	136308.9	142209.2	2.5055
11.2045	91.0684	87.8062	8.921	153.1746		5.322	2.2115	2.4747	12083.21	5346.897	1359.59	2693.929	3386.617	894.1825	9229.894	405.7911	0.8238	120206.9	145742.6	9635.685	136106.9	142640.9	2.4263
12.625	144.6029	87.1647	8.1251	150.1067		7.3509	2.7946	3.4282	11864.37	4907.303	1315.928	2354.168	4051.968	833	11080.59	284.1853	0.8777	114057.5	141322.3	11364.77	129957.5	137664	3.3395
11.4757	133.1984	87.4549	10.4113	141.035		7.3237	2.7691	3.2903	10865.84	4913.201	1316.514	1889.41	3411.717	833	9289.43	416.6434	0.8095	115821.1	141427.2	9706.073	131721.1	138302.8	3.2223
10.7644	168.619	87.6531	7.6206	149.6677		4.6277	3.0601	3.8197	11978.28	5497.335	1374.532	1833.251	3914.319	956.8402	10764.39	285.11	1	112186.2	139135.7	11049.5	128086.2	135578.9	3.7221
11.3057	175.1545	86.5818	8.7697	145.7846		8.2937	3.1175	3.9045	11343.8	4703.038	1295.64	2082.056	4028.07	833	11070.69	285.2543	0.9792	111544.9	138800.9	11355.95	127444.9	135145.4	3.8016
11.3113	124.7848	87.9152	6.8377	154.0706		5.1031	2.5573	3.0783	12491.66	5394.326	1364.301	2303.884	4113.217	913.9368	11311.35	283.3732	1	115762.1	143256.9	11594.72	131662.1	139524.5	2.9981
12.5915	119.2059	87.2197	8.2108	146.3649		6.4227	2.5152	3.0161	11564.13	5108.417	1335.904	2182.013	3702.797	833	10075.58	283.3797	0.8002	116884.8	143143.8	10358.96	132784.8	139809.2	2.9458
11.1808	167.7599	86.1492	9.4449	146.7382		7.6753	3.04	3.7902	11255.46	4837.014	1308.947	1808.772	4065.729	833	11180.75	284.9818	1	112079.6	139445.3	11465.74	127979.6	135754.5	3.6899
10.8273	75.745	87.3287	7.7323	152.7329		4.5214	1.9899	2.1377	12156.99	5520.371	1376.82	2551.163	3340.2	966.4346	9114.037	418.4383	0.8418	122066.9	147499.3	9532.475	137966.9	144430	2.0978
11.7681	99.4425	87.3828	9.6841	145.5545		5.5594	2.2767	2.6428	11309.39	5295.46	1354.481	1857.009	3527.685	872.7591	9609.78	311.1913	0.8166	119145.3	144966.3	9920.972	135045.3	141772.7	2.5856
11.578	97.374	87.654	6.8775	156.7025		4.0405	2.1971	2.547	12657.88	5624.568	1387.169	2024.127	4210.182	1009.833	11578	282.1607	1	118402.8	146163	11860.16	134302.8	142345.2	2.4805
11.6156	143.5633	87.5173	8.7845	158.5863		4.8746	2.7698	3.3917	12485.93	5443.831	1369.218	2112.481	4223.849	934.5556	11615.59	284.0326	1	113910.2	141709.8	11899.62	129810.2	137879.3	3.3
11.2073	162.5038	87.7226	6.4713	154.3156		3.7592	2.9851	3.7091	12538.34	5685.507	1393.222	1947.013	4075.387	1035.214	11207.32	284.7967	1	112491.2	139883.3	11492.11	128391.2	136184	3.611
11.1242	129.3691	86.3522	9.3465	142.0521		7.1453	2.7248	3.2225	10938.82	4951.857	1320.354	2031.329	3400.277	833	9273.088	419.6502	0.8336	116189.2	141782	9692.738	132089.2	138661.9	3.1564
11.5205	121.0955	89.9608	7.4671	156.4398		4.6049	2.5074	3.0047	12905.29	5502.272	1375.023	2477.826	4189.275	958.8962	11520.52	283.1844	1	116017.3	143721	11803.7	131917.3	139921.4	2.9253
11.2935	102.8376	85.9257	8.8515	154.2227		5.5729	2.2985	2.6966	11886.6	5292.541	1354.191	2250.335	3715.99	871.5432	10175.38	282.6405	0.901	118517.4	144875.4	10458.02	134417.4	141509	2.6339
11.3552	135.8651	85.9692	7.5894	144.7738		6.6898	2.6886	3.272	11347.36	5050.534	1330.155	1610.159	4121.508	833	11333.83	283.8029	0.9981	114722.6	142240.2	11617.63	130622.6	138500.5	3.186
10.20																							

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	9 b Mandate, Tax Credit and Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of Mandate Binding
11.9583	152.9894	87.1341	8.6231	146.3147		7.4647	2.8727	3.5435	11487.32	4882.652	1313.48	1817.92	4238.264	833	11646.1	284.3655	0.9739	113088.5	140918.9	11930.47	128988.5	137078.5	3.4469	0
11.4239	163.3341	87.0546	6.7237	150.9295		5.2707	2.9879	3.7134	12124.3	5358.016	1360.695	1950.652	4154.129	898.8136	11423.86	284.7748	1	112331.7	139940.3	11708.63	128231.7	136171.3	3.6134	0
11.4443	149.9189	88.127	7.5047	149.8742		5.8505	2.8445	3.5018	12083.19	5232.401	1348.218	2092.519	4161.56	846.4951	11444.29	284.3006	1	113436.9	141065.5	11728.59	129336.9	137290.1	3.4081	0
11.3364	136.1827	86.5199	5.7752	153.3275		4.4045	2.6923	3.2774	12380.4	5545.694	1379.335	1954.004	4122.342	976.9811	11336.45	283.8145	1	114692.6	142212.9	11620.26	130592.6	138472.3	3.1912	0
12.8	99.2681	87.5748	8.1007	159.2085		5.2112	2.2117	2.5687	12652.95	5370.728	1361.957	2180.764	4433.393	904.1082	12170.52	282.1849	0.9508	117904.2	146256.9	12452.67	133804.2	142248.3	2.4983	0
11.7736	113.0136	86.3878	8.0787	150.7896		5.8614	2.4078	2.8578	11808.2	5230.032	1347.983	1825.718	4156.962	845.5082	11421	282.8687	0.9701	116858.9	144462.8	11703.87	132758.9	140695.3	2.7832	0
11.7586	115.1016	87.1555	7.8383	146.3649		6.092	2.449	2.9186	11609.26	5180.073	1343.021	1935.365	3915.799	833	10729.2	283.0829	0.9125	116982.2	143894.5	11012.28	132882.2	140349.6	2.8467	0
11.1253	127.8315	87.3143	9.4343	152.7877		5.2189	2.5984	3.1389	11899.1	5369.247	1361.81	1816.974	4045.579	903.4915	11125.34	283.5313	1	115560.4	142869.3	11408.87	131460.4	139196.8	3.0582	0
12.5893	108.4641	86.3481	8.7833	147.8801		5.9975	2.3908	2.8225	11470.29	5200.536	1345.053	2127.95	3561.531	833.2232	9669.254	296.2977	0.7681	118163.7	144029.3	9965.552	134063.7	140821.3	2.7601	0
11.3259	99.1687	86.5105	6.3849	156.2256		4.5714	2.2264	2.5903	12517.66	5509.52	1375.743	2149.986	4118.501	961.915	11325.88	283.2823	1	118337	145845.2	11608.16	134237	142105.8	2.5239	0
11.469	87.5073	86.4488	8.2209	154.1176		5.4084	2.2258	2.4066	12056.29	5328.188	1357.732	2859.797	3222.18	886.3901	8744.382	523.5795	0.7624	120788.4	145956.4	9267.962	136688.4	142973	2.3653	0
11.3645	169.6962	86.7296	6.8881	152.8107		4.7059	3.0547	3.8119	12200.64	5480.389	1372.849	1863.07	4132.552	949.7821	11364.53	285.003	1	111848.9	139398.4	11649.54	127748.9	135645.5	3.7093	0
12.0458	84.6083	87.5747	8.1544	151.569		4.9358	2.0962	2.3327	12033.45	5430.585	1367.902	2458.392	3445.53	929.0384	9360.373	368.5482	0.7771	120909.3	146538.2	9728.921	136809.3	143406.5	2.2588	0
10.1071	124.6086	85.9845	7.673	146.0215		6.35	2.5828	3.1157	11435.16	5124.171	1337.468	2075.031	3663.485	833	10074.01	283.6071	0.9967	116356.9	142614.5	10357.62	132256.9	139280.4	3.0429	0
11.9709	132.802	89.1156	9.6872	141.4731		6.9603	2.6783	3.2566	11236.98	4991.943	1324.335	1935.94	3749.761	833	10240.38	283.9074	0.8554	115502.6	141926.9	10524.28	131402.6	138539.4	3.1789	0
11.0437	108.8207	87.3058	7.7581	146.1915		5.704	2.3665	2.7969	11629.19	5264.125	1351.369	1829.346	3922.646	859.7081	10779.73	282.803	0.9761	117594.9	144557.4	11062.53	133494.9	140996.4	2.728	0
11.2702	104.1105	86.029	6.7611	145.1122		5.6678	2.3205	2.729	11502.74	5271.972	1352.148	1981.255	3632.391	862.9732	9635.481	282.7398	0.8816	118500.4	144618.6	10218.22	134000.4	141329.3	2.6689	0
10.5393	133.1261	86.705	7.8298	146.3803		6.7908	2.6809	3.2604	11545.78	5028.667	1327.983	2207.886	3746.243	833	10295.24	283.9091	0.9768	115447.4	141926.5	10579.15	131347.4	138521.1	3.1822	0
10.9558	109.9318	87.7584	8.7694	153.9683		5.6534	2.3782	2.8142	12161.82	5275.098	1352.459	2297.09	3970.896	864.2782	10193.33	282.8067	0.9967	117413.2	144515.3	11202.16	133313.2	140909.4	2.744	0
9.9937	177.0325	88.2515	9.0767	147.0674		6.7215	3.1662	3.9761	11644.03	5043.668	1329.473	2401.808	3634.082	833	9993.726	285.5819	1	111843.5	138022.8	10279.31	127743.5	134713.9	3.8808	0
12.4104	145.0299	88.3342	7.6677	147.8774		6.8434	2.7685	3.3869	11928.75	5017.268	1326.851	1836.772	4512.855	833	12410.35	283.9171	1	113428.5	142022.8	12694.27	129328.5	137935.6	3.2895	0
12.0061	116.6781	86.8833	7.373	147.6872		6.0006	2.4491	2.9187	11742.64	5199.87	1344.987	1715.972	4246.815	833	11668.71	282.9164	0.9719	116376.8	144228.8	11951.68	132276.8	140381.3	2.8409	0
10.1048	143.577	87.7924	6.6117	152.8616		4.7999	2.807	3.4464	12409.41	5460.03	1370.827	2560.796	3674.455	941.3026	11044.75	284.3572	1	114582.4	140871.5	10389.11	130482.4	137527.2	3.364	0
10.8804	141.6064	86.2578	7.674	147.1118		6.6729	2.7656	3.3855	11560.61	5054.209	1330.52	1984.381	3956.5	833	10880.38	284.1159	1	114411.5	141476	11164.49	130311.5	137882.2	3.2994	0
10.5609	94.3043	87.204	7.2653	153.5569		4.0355	2.1732	2.5118	12275.14	5625.644	1387.277	2009.598	3840.342	1010.282	10560.94	282.1819	1	119249.4	145992.6	10843.12	135149.4	142502.2	2.4507	0
11.8791	180.0623	87.8598	8.2665	148.888		5.7289	3.1429	3.942	11850.49	5258.744	1350.335	1661.768	4319.675	857.4667	11879.11	285.2142	1	110837.3	138901.6	12164.32	126737.3	134985.9	3.8019	0
11.4356	85.5288	87.3362	8.7831	146.6984		5.2274	2.1774	2.3613	11523.61	5367.403	1361.627	2224.01	3265.85	902.7235	8871.423	288.9885	0.7758	120975.9	146236.3	9360.412	136875.9	143223.2	2.3194	0
10.6401	173.462	88.0262	10.8571	144.7205		7.4027	3.1125	3.8971	11168	4896.072	1314.813	1852.979	3869.141	833	10640.14	285.3002	1	111855.3	138680.7	10925.44	127755.3	135163.8	3.7983	0
12.3264	139.7693	86.3807	7.8602	157.8749		5.1917	2.7097	3.3031	12396.42	5375.141	1362.396	1868.604	4482.334	905.9464	12326.42	283.7445	1	113924.2	142434.4	12610.17	129824.2	136375.2	3.209	0
11.944	155.492	87.4509	6.5588	136.8982		7.6086	2.904	3.5896	11703.99	4851.476	1310.384	1498.351	4178.78	833	11476.62	284.4915	0.9609	112952.7	140613.8	11761.11	128852.7	136827.9	3.4929	0
10.1062	148.4063	86.6867	6.7249	146.8031		6.361	2.8614	3.2626	11738.63	5121.78	1337.231	2369.637	3674.986	833	10106.22	284.5399	1	114155.8	140446.6	10390.76	130055.8	137101.8	3.4426	0
10.8409	86.4078	88.0434	8.1705	133.5694		6.0262	2.396	2.4065	10668.58	5194.334	1344.437	1891.248	3003.562	833	8144.418	285.5819	0.7513	121407.1	146307.1	9000	137307.1	142909.4	2.377	1
10.8735	129.2615	87.377	8.6068	139.888		7.0994	2.7176	3.2199	11019	4961.787	1321.34	2092.831	3408.045	833	9307.479	280.0359	0.856	116190	141806.5	9716.515	132090	138677.3	3.1533	0
9.9657	117.792	86.4761	7.8994	155.1041		4.3675	2.4996	2.9931	12187.57	5563.707	1380.131	2247.517	3623.895	980.3189	9965.714	283.3401	1	117077.4	143226.5	10249.05	132977.4	139927.3	3.9242	0
12.3407	152.4788	88.8861	9.3364	150.4917		6.4066	2.8494	3.5093	11971.58	5111.91	1336.251	1800.879	4487.541	833	12340.74	284.1945	1	112827.7	141352.7	12624.94	128727.7	137288.7	3.4083	0
11.7447	154.8728	87.8704	8.1996	149.0254		6.1229	2.8904	3.5696	11827.97	5173.376	1342.356	1851.423	4270.816	833	11744.75	284.4098	1	112887.9	140817.1	12029.16	128787.9	139849.9	3.4714	0
11.0418	147.5687	87.4413	10.4328	142.7783		7.2569	2.8315	3.4826	10995.15	4927.673	1317.952	1539.61	3974.915	833	10928.38	284.3279	0.9897	113866.6	140979.3	11212.71	129766.6	137369.9	3.3934	0
11.8052	115.7525	85.4884	7.3032	146		6.1141	2.456	2.9288	11414.75	5175.27	1342.544	1722.537	3939.396	833	10794.99	283.9984	0.9144	116885.8	143863.8	11078.09	132785.8	140927.8	2.8562	0
11.9967	155.4467	86.7981	9.0394	149.6799		6.1882	2.89	3.5991	11638.92	5159.215	1340.949	1541.328	4362.43	833	11996.69	284.3735	1	112730.8	140911.9	12281.07	128630.8	136958.6	3.4689	0
12.733	132.3054	86.5628	9.0817	146.9178		6.8229	2.6481	3.2122	11383.36	5075.694	1327.29	1674.527	4124.846	833	11285.58	283.6754	0.8863	115070	142539.2	11569.25	130970	138815.1	3.1283	0
11.0493	133.3312	87.1861	8.2682	148.5141		6.5736	2.6658	3.2383	11270.42	5015.724	1323.657	2061.104	4015.934	833	11043.76	283.7643	0.9995	115086.3	142313.8	11327.52	130986.3	138667.5	3.1563	0
10.2935	124.4551	87.3197	8.2773	146.346																				

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	9 b Mandate, Tax Credit and Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of Mandate Binding
11.4387	133.5836	85.8	10.0001	142.2917		7.3868	2.786	3.2985	10785.69	4899.537	1315.157	1949.14	3386.861	833	9219.565	438.6425	0.806	115803.9	141362.1	9658.208	131703.9	138253.2	3.2314	0
11.2909	134.4264	86.4662	8.0572	146.7831		6.8156	2.6813	3.2611	11229.71	5003.28	1327.448	1943.61	3979.775	833	10933.44	283.8295	0.9683	115036.1	142153.3	12117.27	130936.1	138545.2	3.1783	0
12.3448	94.2918	88.0574	8.3893	153.4832		4.9161	2.1441	2.4691	12527.72	5434.854	1368.326	1675.966	4415.756	930.8166	12137.89	281.9335	0.9832	118452.3	146772.1	12419.84	134352.3	142774.2	2.4018	0
11.5822	102.6506	86.4468	9.0971	154.9308		5.5604	2.2934	2.689	11983.85	5295.257	1354.461	2293.088	3766.367	872.6746	10309.75	282.6092	0.9454	118470.9	144963.3	10592.36	134370.9	141553.6	2.6258	0
11.9816	90.1382	88.1987	8.2399	139.0685		4.5679	2.2399	2.4601	11119.76	5315.284	1356.45	1869.711	3295.295	881.0157	8931.617	480.4573	0.8948	120416.9	145729	9412.075	136316.9	142699.3	2.4155	0
11.3318	150.5606	87.4925	7.4931	148.4865		6.5896	2.8543	3.5164	11878.82	5072.257	1332.312	2118.589	4120.666	833	11331.83	284.3484	1	113431.6	140947.8	11616.18	129331.6	137208.5	3.4231	0
12.0268	114.3755	86.83	7.5139	144.6929		6.1565	2.4507	2.9209	11476.48	5166.093	1341.632	1993.985	3739.769	833	10208.88	283.1475	0.8488	117304.4	143696.4	10492.03	133204.4	140319.1	2.8523	0
11.9731	118.1493	87.8161	8.0792	152.828		6.0844	2.4696	2.9491	12186.02	5181.717	1343.184	2214.036	4212.084	833	11570.75	283.0549	0.9664	116279.5	144033.3	11853.8	132179.5	140217.5	2.8709	0
10.9321	110.0465	87.9316	9.2023	153.7706		5.6234	2.3797	2.8164	12106.26	5281.6	1353.105	2231.261	3971.309	866.9863	10920.95	282.8313	0.9999	117400.7	144504.5	11203.79	133300.7	140898	2.7461	0
11.5695	91.8763	87.462	7.7021	148.4997		5.2874	2.1998	2.489	11844.32	5354.406	1360.336	2380.178	3450.959	897.3101	9395.579	364.1883	0.8121	120058.1	145717.8	9759.768	135958.1	142576.2	2.4381	0
10.7416	118.1953	87.1054	6.4937	155.382		4.3009	2.4881	2.9762	12525.6	5568.139	1381.565	2281.547	3906.024	986.33	10741.57	283.2113	1	116669	143593.8	11024.78	132569	140044.9	2.9026	0
10.882	149.853	87.1906	9.2539	145.3436		6.711	2.8579	3.5216	11327.59	5045.95	1329.699	1759.843	3957.1	833	10882.03	284.4219	1	113689.5	140756	11166.45	129589.5	137161.5	3.4317	0
12.4393	125.9952	88.2067	7.4742	142.4299		6.4921	2.5674	3.0932	11498.72	5093.382	1324.41	1635.271	4200.654	833	11517.8	283.3815	0.9259	115551.1	143252.2	11801.18	131451.1	139453.5	3.0111	0
10.4292	116.4322	87.8941	10.5202	140.5909		6.8146	2.6347	2.993	10878.06	5023.506	1327.47	2063.557	3228.527	833	11811.056	546.8628	0.8448	117602.2	142860.2	9357.919	133502.2	139847.8	2.9388	0
11.3933	162.7228	86.6594	8.542	150.5787		4.964	2.9824	3.7052	11762.81	5424.457	1367.294	1499.553	4143.024	926.4864	11393.32	284.761	1	112394.1	139972.1	11678.08	128294.1	136213	3.6057	0
11.7718	125.0085	86.9932	6.1261	142.5541		6.8346	2.6318	3.139	11527.93	5019.167	1327.04	2456.686	3490.37	833	9501.145	348.4345	0.8071	116546	142295.5	9849.579	132446	139125	3.0714	0
11.8615	121.4295	87.4704	9.1433	152.3173		6.4571	2.5391	3.0514	11930.58	5100.969	1335.164	2053.972	3755.473	833	10262.1	283.438	0.8652	116577.9	143023.5	10545.54	137477.9	139628.9	2.9789	0
11.9915	101.8192	86.3179	6.5872	158.1996		5.3454	2.2573	2.6358	12613.37	5341.836	1359.088	2398.802	4219.569	892.0748	11591.42	282.3566	0.9666	117924	145697.7	11873.78	133824	141875.6	2.5667	0
11.6593	105.6823	87.648	7.7307	138.1598		5.7626	2.3412	2.7594	11041.36	5251.442	1350.109	1534.395	3648.99	854.4257	9694.687	282.8062	0.8547	118319.7	144467.2	10247.49	134219.7	141168.6	2.6166	0
11.8301	160.9208	87.2729	6.2844	148.0593		4.9521	3.6605	11694.99	4976.104	1322.762	1859.25	4301.87	833	11830.15	284.599	1	112353.6	140368.4	12114.74	128253.6	136468.6	3.5588	0	
11.6039	124.2022	88.3414	9.8485	145.7926		6.4833	2.5637	3.0876	11443.68	5095.285	1334.599	1873.426	3905.373	833	10706.37	283.4669	0.9226	116100.7	142990.5	10989.84	132000.7	139452.9	3.0112	0
11.5947	174.6319	88.29	8.658	148.9677		5.5752	3.0978	3.8754	11862.58	5292.032	1354.141	1726.822	4216.258	871.3314	11594.71	285.11	1	111368.1	139147.9	11879.82	127268.1	135323.8	2.7685	1
11.6927	147.0392	86.3737	9.7006	148.65		7.2986	2.8171	3.4614	11397.45	4918.64	1317.055	1823.281	4103.479	833	11271.27	284.2339	0.964	113760.7	141216.2	11555.51	129660.7	137495.6	3.3702	0
11.6634	121.1026	87.5927	7.1121	147.0057		5.8639	2.5043	3.0002	11822.28	5229.479	1347.928	1756.368	4241.229	845.2778	11663.38	283.1578	1	115949.2	143795.6	11946.54	131849.2	139950.2	2.92	0
12.4464	155.3477	86.9304	7.1422	137.7433		7.6044	2.8943	3.5754	10990.3	4852.373	1310.473	1297.41	4295.408	833	11788.77	284.4165	0.9472	112829.3	140802.5	12073.18	128729.3	136916.1	3.4271	0
11.6437	138.7649	87.4177	9.3447	155.2553		4.6593	2.7147	3.3105	12121.25	5490.487	1373.852	1666.866	4234.507	953.9877	11643.66	283.8487	1	114321.4	142148.9	11927.51	130221.4	138309.4	2.7661	0
10.6236	119.3461	86.5564	7.9576	149.8035		6.2356	2.5129	3.0128	11744.29	5148.951	1339.93	2284.343	3736.662	833	10262.95	283.3501	0.966	116782.3	143228.6	10546.3	132682.3	139833.7	2.9413	0
11.3716	183.5952	88.5676	10.1209	155.0799		5.3892	2.1914	4.0134	12165.47	5332.344	1358.145	2049.742	4135.118	888.1214	11371.58	285.4515	1	110779.8	138336.8	11657.03	126679.8	134584.4	3.9046	0
11.3678	154.3794	87.6199	6.7339	155.129		5.3151	2.8948	3.5761	12547.75	5348.406	1359.74	2409.064	4133.729	894.8109	11367.76	284.4767	1	113093	140645.2	11652.23	128993	136894.4	3.4807	0
10.4644	96.1184	87.5851	6.8274	155.1956		4.5864	2.2004	2.5519	12533.24	5506.276	1375.42	2483.747	3805.233	960.5639	10464.39	282.2823	1	119098.8	145745.5	10746.67	134998.8	142286.1	2.4913	0
11.4245	138.0901	85.9638	8.595	140.4433		7.2434	2.7562	3.3672	10865.93	4930.6	1318.242	1829.54	3552.552	833	9697.818	289.889	0.8489	115257.1	141144.8	9987.707	131157.1	137929.8	3.2907	0
11.4449	83.0991	86.9952	8.9887	145.8508		5.6564	2.2887	2.3267	11377.31	5274.45	1352.395	2435.554	3048.908	864.0002	8248.327	251.6728	0.7207	121670.8	146570.8	9000	137570.8	139353.2	2.9551	1
11.9303	93.1233	86.7532	9.2162	151.181		5.4013	2.2289	2.5165	11722.12	5329.709	1357.883	2310.981	3434.526	887.0239	9333.996	380.7062	0.7824	119938.1	145552.8	9714.702	135838.1	144225.6	2.4658	0
11.9051	77.8798	87.2212	8.9866	157.3325		4.0928	1.9129	2.128	12308.85	5613.235	1386.044	1608.341	4294.116	1005.112	11806.66	281.2106	0.9917	120473.3	148461.2	12087.87	136373.3	144570.1	2.0722	0
10.4863	102.1424	87.8768	9.5716	145.638		5.5632	2.3024	2.6962	11404.21	5294.643	1354.4	1947.104	3533.648	872.4189	9687.916	290.6138	0.9239	118827.7	144706.2	9978.53	134727.7	141494.1	2.6367	0
11.9219	106.9806	86.5398	7.8499	159.6824		4.8469	2.3193	2.7274	12565.4	5449.845	1369.815	2071.445	4335.237	937.0606	11921.91	282.5428	1	117225.9	145330.4	12204.43	133251.9	141401.8	2.8536	0
11.8378	137.3014	87.7599	7.5386	156.7828		4.7541	2.6933	3.2789	12577.32	5469.954	1371.813	2083.47	4304.647	945.4357	11837.78	283.7537	1	114366.4	142385.9	12121.53	130264.4	138484	3.1899	0
10.8985	82.915	87.9279	9.4036	152.6842		4.8096	2.0734	2.2957	11989.42	5457.911	1370.617	2399.552	3418.916	940.4201	9337.633	372.883	0.8568	121117.3	146727.8	9710.516	137017.3	143602	2.4299	0
12.6333	159.3074	87.4629	6.5899	149.5003		5.6952	2.9141	3.6046	12090.54	5266.044	1351.56	1616.485	4593.941	860.5071	12633.34	284.3624	1	112139.3	140957	12917.7	128039.3	136798.8	3.4982	0
10.0529	130.1511	87.5016	6.7197	140.3492		5.5037	2.6509	3.2162	11337.68	5307.542	1355.681	1739.071	3655.59	877.7912	11052.88	283.8389	1	115837.1	142073.9	10336.72	131737.1	138745.5	3.1409	0
11.1681	180.64	87.5742	8.7298	148.6027		5.962	3.1687	3.9799	11716.49	5208.23	1345.817	1862.904	4061.109	836.4276	11168.05	285.4089	1	111084.9	138438.4	11453.46	129884.9	134751.5	3.8739	0
10.5519	104.8458	88.3339	8.																					

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	9 b Mandate, Tax Credit and Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of Mandate Binding
10.3838	113.4266	87.8958	9.1481	134.1859		7.28	2.752	2.955	10566.83	4922.662	1317.454	2084.964	3006.749	833	8174.211	825.7891	0.7872	11821.76	143116.7	9000	134116.7	139989.8	2.9127	1
11.3876	105.1845	87.858	7.2221	143.8808		5.7511	2.3855	2.7555	11561.97	5253.927	1350.356	2126.225	3574	855.4604	9071.445	282.819	0.8529	118472	144416.3	10044.26	134372	141183	2.6938	0
10.9946	146.4391	88.0625	8.8426	143.0626		7.1933	2.8192	3.4645	11333.41	4941.46	1319.321	1867.196	3970.434	833	10961.606	284.2887	0.9929	113969.6	141070.9	11201.35	129696.9	137465.2	3.376	0
12.3718	99.9173	88.4058	7.8711	147.6515		5.3914	2.2435	2.6155	11891.07	5301.864	1358.097	1903.77	4007.422	887.9213	10964.24	282.3755	0.8862	118437.5	145584.1	11246.62	134337.5	141963.8	2.5505	0
13.0786	102.3081	85.7222	8.129	155.1986		5.5075	2.2705	2.6553	12042.37	5336.704	1355.598	1983.02	4117.606	877.4421	11248.13	282.4355	0.866	118042.7	145473.3	11530.57	133942.7	141761.6	2.5876	0
10.7289	124.5248	86.8604	10.1953	139.7397		7.2051	2.739	3.1437	10713.15	4938.887	1319.065	1980.962	3239.238	833	8827.657	551.3753	0.8228	116785.6	142064.6	9379.032	132685.6	139045.5	3.086	0
12.7867	164.6814	87.0423	7.4474	146.0495		7.6884	2.9673	3.6831	11624.8	4834.171	1308.665	1623.099	4623.861	833	12714.17	284.5219	0.9943	111674.7	140573.4	12998.69	127574.7	136389.1	3.5734	0
11.5523	116.8939	89.2082	8.7537	143.8135		6.3578	2.5042	2.9853	11570.44	5122.484	1337.301	2337.492	3538.167	833	9650.232	302.6327	0.8354	117305.4	143158.2	9952.865	133205.4	139954.4	2.9192	0
11.6343	90.4226	87.2677	7.7602	158.6643		4.9779	2.1245	2.44	12615	5421.456	1366.996	2771.872	3727.44	925.2362	10192.15	282.0547	0.8756	119870	146244.2	10474.2	135770	142872.5	2.3837	0
10.7477	168.5108	86.6556	8.0567	146.3281		5.7223	3.0594	3.8188	11501.24	5260.168	1350.976	1721.762	3908.27	858.0601	10747.74	285.1103	1	112201.8	139134.7	11032.85	128101.8	135583.2	3.7213	0
11.0264	121.2128	86.6914	6.6038	147.5101		5.3875	2.5197	3.0228	11813.74	5332.714	1358.182	1822.983	4009.588	888.2753	11026.37	283.2829	1	116239.1	143448.7	11309.65	132139.1	139801.8	2.946	0
11.2843	176.3616	87.6508	9.1411	147.5998		5.7349	3.1235	3.9133	11588.01	5257.441	1350.705	1617.58	4103.365	856.9241	11284.26	285.2416	1	111363.5	138833	11569.5	127263.5	135108.8	3.8084	0
12.2108	101.7231	86.7903	9.6164	147.5533		6.1844	2.4348	2.7047	11387.25	5160.038	1341.031	2407.152	3244.029	833	8774.783	537.679	0.7186	119168.6	144381	9312.462	135068.6	141383.4	2.657	0
11.3099	117.2597	86.9026	8.2589	157.3415		5.1696	2.4641	2.9408	12373.92	5379.919	1362.87	2208.502	4112.695	907.9363	11309.91	283.0665	1	116490.8	143983.8	11592.98	132390.8	140252	2.8646	0
12.8761	100.5863	86.9322	5.2771	146.9973		5.4918	2.2593	2.6387	12033.08	5310.119	1355.937	2159.748	3896.411	878.8645	10620	282.463	0.8248	118537.4	145339.8	10902.46	134437.4	141830.3	2.575	0
11.7119	101.2689	87.6887	7.7385	152.771		4.269	2.2475	2.6215	1224.507	5575.04	1382.25	1606.71	4258.87	989.2041	11771.89	282.3124	1	117922	1458162	11994.21	133822	141955.3	2.5521	0
11.231	165.1776	87.2348	9.2489	143.994		6.7577	3.0122	3.7491	11229.51	5035.827	1328.694	1545.976	4084.012	833	11231.04	284.8826	1	112264.9	139680.9	11515.92	126164.9	135973.9	3.6496	0
11.7586	84.3019	85.746	6.2075	159.1632		4.406	2.0097	2.2708	12659.6	5545.372	1379.303	2099.499	4256.58	976.8475	11704.57	281.5355	0.9954	119783.9	147670	11986.11	135683.9	143811.7	2.2114	0
11.121	184.975	86.4991	6.0097	149.6921		5.7359	3.2118	4.0435	12048.63	5257.215	1350.683	2137.91	4043.994	856.8302	11120.99	281.5558	1	110778.6	138085.1	11406.54	126678.6	134413.4	3.936	0
11.2957	127.4276	87.7888	7.0462	154.9662		3.786	2.5897	3.1261	12512.37	5679.69	1392.644	1897.715	4107.53	1032.791	11295.72	283.4818	1	115519.4	142998.6	11579.21	131419.4	139271.2	3.0446	0
12.1795	116.186	87.5457	6.9431	157.1553		5.6498	2.432	2.8936	12667.13	5275.867	1352.535	2343.233	4428.901	864.5984	12199.48	282.8629	1	116180.9	144543.3	12462.34	132080.9	140531.7	2.8133	0
10.3953	121.4083	87.8331	8.0214	155.0915		3.7601	2.5389	3.0467	12378.12	5685.318	1393.203	2082.372	3780.097	1035.135	10795.27	283.415	1	116517.3	143096	10678.68	132417.3	139658.5	2.9735	0
10.28	110.3833	89.2951	6.9152	141.5627		6.4031	2.5259	2.8733	11718.55	5112.656	1336.325	2751.59	3282.98	833	8975.253	492.7005	0.8731	118177.9	143545.9	9467.954	134077.9	140498.2	2.8194	0
10.7088	141.2561	89.0702	9.5183	144.7868		6.1536	2.7658	3.3857	11460.14	5166.727	1341.695	1822.619	3894.094	833	10708.76	249.1309	1	114519.6	141412.5	10992.9	130419.6	137873.9	3.304	0
11.4709	99.8539	86.9225	9.132	140.8677		5.8528	2.3551	2.6601	10958.17	5231.883	1348.167	1775.493	3354.35	846.2794	9124.447	441.0703	0.7954	119259.2	144724.7	9565.517	135159.2	141645.5	2.6089	0
12.0553	120.9676	87.0598	7.5877	150.0351		2.5071	3.0043	3.1923	11923.6	5147.057	1330.374	2026.857	4174.945	833	11460.97	283.1905	0.9507	116057.8	143701.9	11744.16	131957.8	139921.5	2.9252	0
11.0493	172.4201	87.3703	9.6139	153.9198		5.7734	2.0486	2.0752	11968.25	5465.753	1371.395	2695.002	3090.41	943.686	8384.58	615.4203	0.7588	122834.1	147734.1	9000	138734.1	144771.8	2.045	1
11.089	125.8654	87.8168	7.9306	148.6369		6.1116	2.5674	3.105	11874.04	5284.158	1353.359	1934.122	4032.349	868.0516	11088.96	283.4598	1	115763.2	143035.6	11372.42	131663.2	139374.8	3.0256	0
12.0257	102.9579	87.1929	6.951	158.5922		4.4602	2.2641	2.6459	12755.74	5533.633	1378.138	2067.013	4372.999	971.9583	12025.75	283.3424	1	117589.6	145979.7	12308.08	133489.6	141835.7	2.574	0
11.9823	163.0728	86.2341	7.5338	133.6327		8.2399	3.028	3.7723	10516.94	4714.691	1326.798	1668.063	3602.386	833	9814.924	285.1327	0.8191	113037	139037.1	10100.07	128937	135785.9	3.6841	0
10.5061	126.8399	86.7314	8.2938	152.8555		3.8083	2.6004	3.1418	11989.62	5674.858	1392.164	1669.413	3820.404	1030.778	10506.13	283.6137	1	115941.6	142631.4	10789.74	131841.6	139158.1	3.0653	0
11.1391	115.0163	85.2128	7.9415	152.0606		5.4625	2.4393	2.9042	11749.94	5316.45	1356.566	1742.836	4050.584	881.5012	11139.12	283.0042	1	116794.4	144116.5	11422.12	132694.4	140439.8	2.8301	0
10.558	122.8802	88.0708	8.2965	150.3818		5.6624	2.5506	3.0684	11996.6	5273.151	1352.266	2266.444	3839.267	863.4675	10557.99	283.4413	1	116297.7	143039.1	10841.43	132197.7	139549.3	2.9935	0
11.5414	138.9707	87.0291	5.8804	155.4877		5.9802	2.7195	3.3176	12617.63	5204.28	1345.425	2634.257	4196.881	834.7826	11541.43	283.8776	1	114349.2	142075.4	11825.3	130249.2	138267.9	3.2287	0
11.3782	107.7218	89.012	7.2263	148.5491		5.8697	2.3723	2.8053	12149.18	5228.229	1347.804	2747.816	3578.577	844.7574	9775.098	282.3138	0.8591	118198.2	144156.2	10058.03	134098.2	140918.5	2.7423	0
12.3424	127.8933	86.7395	7.394	142.0263		6.5972	2.5944	3.1331	11269.15	5070.598	1332.147	1496.567	4134.84	833	11332.81	283.4929	0.9182	115458.4	142974.7	11616.3	131358.4	139235.4	3.0511	0
11.0961	134.7108	86.2399	8.0947	153.4775		5.5004	2.6808	3.2604	12083.16	5308.256	1355.752	2104.13	4034.93	878.0888	11096.06	283.8072	1	114935.9	142215.8	11379.86	130835.9	138552.6	3.1764	0
12.182	120.4638	87.8293	7.8311	140.4904		6.9866	2.6605	3.0656	11238.98	4986.23	1323.768	2378.797	3315.185	833	8979.938	501.4976	0.7371	117144.6	142526	9481.436	133044.6	139473.9	3.0074	0
11.6939	148.6599	88.2899	7.9523	151.8104		4.2543	2.8244	3.4722	11280.01	5491.529	1373.956	1705.789	4252.31	954.4217	11693.86	284.2099	1	113434.6	141317.2	11978.06	129334.6	137457	3.3775	0
12.1273	117.4151	87.2683	7.6894	158.3553		5.2169	2.4485	2.9179	12601.72	5369.664	1361.852	2154.621	4409.923	903.665	12127.29	282.9224	1	116086	144396.2	12410.22	131986	140401.4	2.8372	0
10.6703	121.7786	86.8107	7.7519	156.082		5.0116	2.5345	3.0446	12339.65	5414.161	1366.271	2354.903	3880.117	922.1978	10670.32	283.3742	1	116351.8	143205.5	10953.7	132251.8	139679.5	2.9696	0
10.7018	119.3274	87.8143	7.992	150.57																				

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	9 b Mandate, Tax Credit and Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of Mandate Binding
11.5135	121.9961	86.8419	7.7866	145.8471		6.5767	2.5666	3.0804	11529.98	5075.046	1332.589	2344.578	3542.765	833	9665.344	298.7305	0.8395	116793.6	142657.7	9964.075	132693.6	139450.2	3.0117	0
11.4507	113.3424	87.6545	8.9161	154.2741		5.8215	2.4138	2.8667	12147.29	5238.672	1348.841	2186.611	4122.058	849.107	11332.93	282.8994	0.9897	116868.4	144384.3	11615.83	132768.4	140645.1	2.7925	0
11.9915	171.9616	86.8663	8.3597	148.518		7.6941	3.0603	3.8201	11659.64	4832.941	1308.543	1922.603	4360.552	833	11991.52	284.9281	1	111409.3	139585.7	12276.45	127309.3	135634	3.712	0
11.9898	135.5951	87.1653	9.8648	143.7062		7.0643	2.7092	3.3022	11108.56	4969.394	1322.096	1800.756	3781.312	833	10330.46	283.9995	0.8616	115203.2	141717.6	10614.46	131103.2	138380.8	3.2226	0
10.2333	179.8577	88.1449	8.7948	151.6991		4.5337	3.1874	4.0075	12037.35	5517.689	1376.554	2054.607	3721.183	965.3178	10233.26	285.6161	1	111526.8	137945.7	10518.87	127426.8	134559.7	3.9091	0
12.0748	95.9835	87.02	7.7419	143.7166		5.4858	2.2506	2.5742	11393.57	5311.405	1356.065	1965.502	3479.199	879.4003	9455.895	350.6721	0.7831	119576.7	145283.3	9806.567	135476.7	142126.6	2.5206	0
11.0893	133.6058	87.6667	7.3111	158.8899		5.5412	2.668	3.2415	12767.7	5732.732	1397.913	2147.702	4032.471	1054.883	11089.29	283.7657	1	115040.2	142313.3	11373.06	130940.2	138652.3	3.1581	0
11.2794	126.3841	87.0909	8.8059	143.2062		6.6277	2.6003	3.1416	11210.9	5063.993	1331.491	1833.48	3746.939	833	10265.23	283.6427	0.9101	116097	142545.9	10548.87	131997	139150.2	3.0668	0
12.2495	92.4484	85.2532	9.0866	151.5882		5.2724	2.1901	2.4989	11545.96	5357.65	1360.658	2022.174	3504.815	898.6613	9521.594	332.289	0.7773	119950.3	145704.2	9853.883	135850.3	142532.2	2.4462	0
9.7203	158.6947	88.0987	7.9436	156.2179		3.1033	2.9839	3.7073	12521.67	5827.613	1407.336	2255.648	3534.668	1094.401	9720.341	285.0074	1	113442	139347.4	10005.35	129342	136126.6	3.6216	0
11.9173	153.4835	86.3084	5.7902	149.8519		5.7439	2.8711	3.5411	12065.81	5255.496	1350.512	1868.135	4333.551	856.1142	11917.27	284.3228	1	112928.8	141030.3	12201.59	128828.8	137102.7	3.4425	0
10.2215	115.8476	86.6444	10.1285	148.298		6.1811	2.487	2.965	11347.16	5160.758	1341.102	2085.833	3524.464	833	9673.361	295.8212	0.9464	117404	143273.2	9969.182	133304	140064.1	2.8991	0
11.2933	113.2022	86.4696	7.5349	153.1592		5.6806	2.4129	2.8653	12089.58	5269.201	1351.873	2098.228	4106.455	861.8223	11292.75	282.8998	1	116901.8	144377.5	11575.65	132801.8	140651.3	2.7913	0
11.4382	106.458	88.5781	8.6812	151.0606		4.4	2.3221	2.7315	12069.28	5546.673	1379.433	1604.435	4159.349	977.3895	11438.21	282.5854	1	117516.6	145137.4	11720.8	133416.6	141364.5	2.6605	0
12.2126	166.8987	86.2078	7.4756	150.0856		5.4679	3.0033	3.7362	11816.58	5315.278	1356.45	1420.908	4440.929	881.0134	12212.56	284.7107	1	11712.4	140109.6	12497.27	127612.6	136086.8	3.6289	0
11.1933	85.8385	86.6543	8.4438	154.0326		4.8574	2.0865	2.3561	12046.97	5447.554	1368.588	2388.286	3503.433	936.1061	9567.248	318.732	0.8547	120691.7	146477.7	9885.98	136591.7	140236.2	2.3062	0
12.6604	118.5853	87.2582	9.0685	154.9708		6.2793	2.4887	2.9771	12117.12	5139.493	1338.99	2400.16	4003.471	833	10939.202	283.1906	0.864	116536.9	143659.1	11222.21	132436.9	140046.6	2.9023	0
10.7943	155.2739	87.7426	9.2717	144.1206		6.7494	2.9192	3.612	11309.28	5037.633	1328.873	1782.568	3925.203	833	10794.31	284.6376	1	113266.7	140245.7	11078.95	129166.7	136679.4	3.5202	0
11.9293	123.8115	87.7352	8.85	144.1902		6.6283	2.5779	3.1086	11374.47	5063.871	1331.479	2131.72	3612.403	833	9846.308	283.8185	0.8254	116540.5	142570.5	10129.93	132440.5	139309.7	3.0374	0
10.7454	138.9347	86.8034	7.9245	159.4719		4.1552	2.7382	3.3451	12578.97	5599.705	1384.7	2285.657	3907.426	999.4772	10745.43	284.0426	1	114711.4	141640.9	11029.47	130611.4	138090.5	3.2612	0
10.8798	140.2426	86.1006	9.3902	136.5639		7.7049	2.8832	3.4161	10475.88	4890.608	1308.311	1757.305	3344.654	833	9124.373	272.9437	0.8387	115211.4	140708.7	9597.317	131111.4	137619.3	3.3477	0
12.3091	139.058	86.409	9.1468	147.1017		6.9674	2.7157	3.312	11365.4	4930.406	1324.182	1539.603	4276.206	833	11740.59	283.8395	0.9538	114251.5	142176	12024.43	130151.5	138305.3	3.2218	0
11.3298	100.9082	86.3552	6.958	157.6416		5.4351	2.2663	2.6491	12508.36	5322.392	1357.156	2720.209	3822.631	883.9761	10480.84	285.5009	0.9251	118572.1	145235.4	10763.34	134472.1	141770.7	2.5859	0
12.3089	192.0063	87.3831	8.2226	143.6587		6.9116	3.2432	4.0899	11372.1	5002.479	1325.382	1333.261	4475.976	833	12308.94	280.4725	1	109787.6	138282	12594.41	125687.6	134227.9	3.97	0
10.8043	116.195	86.8072	9.0045	159.5798		6.6112	2.5778	2.982	10859.69	5067.57	1331.847	1876.187	3349.083	833	9140.755	280.4733	0.846	117527.7	143018.9	9591.228	133427.7	139931.5	2.9234	0
10.156	117.3207	86.8349	9.0108	156.6304		5.9324	2.4896	2.9783	12817.52	5214.637	1346.454	2692.352	3692.98	839.0963	10155.7	453.2842	1	117034.2	143373.1	10438.98	132934.2	140012.8	2.9085	0
11.0742	99.1813	85.6073	7.4883	136.1248		6.6919	2.5784	2.6755	10606.07	5050.083	1330.11	1983.991	3006.89	833	8143.766	286.2345	0.7354	119854.1	144754.1	9000	135754.1	141479.9	2.6402	1
11.297	145.0772	88.6503	6.1767	142.7664		5.5876	2.7946	3.4282	11774.46	5289.36	1353.876	1750.99	4108.016	870.2183	11297.05	282.1564	1	113919.8	141401	11581.2	129819.8	137673	3.3378	0
12.2343	100.9024	87.2922	7.0701	155.146		5.3253	2.2441	2.6165	12446.14	5136.175	1359.519	2207.332	4237.23	893.8821	11631.99	282.3094	0.9508	118000.3	145814.6	11914.3	133900.3	141978.4	2.5476	0
12.2034	156.9471	86.8355	5.536	154.9608		6.3077	2.9006	3.5846	12598.23	5343.337	1338.379	3338.379	4437.617	833	12203.45	284.3789	1	112517.4	140905.2	12487.83	128417.4	136885.4	3.4824	0
12.0967	91.873	87.4758	7.7847	137.9774		6.4092	2.4899	2.5254	10979.35	5111.335	1336.194	2284.166	3012.655	833	8118.271	281.7288	0.6711	120763.5	145663.5	9000	136663.5	142270.7	2.4942	1
11.7437	121.4131	86.8254	9.2906	133.9397		7.2613	2.736	3.0908	10384.99	4926.727	1371.858	1728.573	3176.829	833	8602.142	615.2508	0.7325	117160.2	142277.5	9217.393	133060.2	139310.5	3.0374	0
11.7756	104.4066	88.3906	7.5374	155.8466		5.1833	2.2883	2.6816	12600.7	5376.958	1362.576	2270.444	4282.022	906.7029	11775.56	282.439	1	117562.8	145520.8	12058	133462.8	141639.3	2.61	0
11.4109	105.4254	87.1832	7.9187	156.143		4.2937	2.309	2.7121	12376.6	5669.703	1381.72	1886.765	4149.429	986.9811	11401.93	282.5452	1	117636.7	145230.2	11693.48	133536.7	141466.1	2.6418	0
10.8814	100.4172	88.7359	7.5543	156.2438		4.9278	2.2519	2.6279	12684.13	5432.314	1368.074	2595.124	3956.856	929.7589	10881.36	282.4118	1	118425.4	145489.2	11163.77	134325.4	141895.6	2.563	0
9.8937	73.9551	87.7913	7.7603	154.5576		3.7943	1.8824	2.0829	12369.39	5677.899	1392.466	2267.288	3597.692	1032.045	9893.654	281.2661	1	121963.5	148038.5	10174.92	137863.5	144763.1	2.0368	0
11.8654	96.6756	86.7751	10.7239	136.4308		6.1464	2.6459	2.6369	10375.72	4988.89	1324.032	1873.427	2954.377	833	7961.121	1038.879	0.671	120386.2	145286.2	9000	136286.2	141648.7	3.0683	1
9.8378	111.8328	88.5572	9.3857	150.7135		4.5754	2.4253	2.8836	11932.23	5508.671	1375.658	2106.95	3577.387	961.5614	9837.815	283.1042	1	117741.7	143762.6	10120.92	133641.7	140504.7	2.818	0
11.8763	82.4792	86.7619	8.3486	145.2447		5.4167	2.2199	2.3054	11389.13	5326.384	1357.553	2325.334	3092.216	885.6388	8354.227	645.7303	0.7034	121585.2	146485.2	9000	137485.2	143485.5	2.7122	0
11.8356	96.1248	86.9251	8.784	150.5295		5.2273	2.1986	2.5493	11762.54	5367.417	1361.628	1888.66	3860.11	902.7293	10565.08	282.2664	0.8926	119047.5	145794.8	10847.35	134947.5	142303	3.4875	0
10.4918	132.8939	86.8566	10.2745	143.7307		6.8431	2.6834	3.2642	11007.19	5017.331	1326.857	1762.169	3665.833	833	10067.29	283.9466	0.9595	115573.2	141824.4	10351.23	131473.2	138492.3	2.1872	0
10.3462	110.6701	87.3567	7.0753	150.																				

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	9 b Mandate, Tax Credit and Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of Mandate Binding
10.9706	201.9412	87.1753	7.9613	143.551		7.0845	3.3734	4.2818	11371.24	4965.028	1321.662	1860.237	3989.316	833	10970.62	286.1168	1	109613.8	136770.6	11256.74	125513.8	133147	4.1683	0
9.8573	205.5282	87.3043	8.4326	151.3692		5.9087	3.4393	4.3788	11938.75	5219.783	1346.965	2544.3	3584.46	841.2396	9857.269	286.5248	1	109795	135838.8	10143.79	125695	132573.5	4.2736	0
10.4851	129.1358	88.818	9.1499	147.2018		5.8968	2.6287	3.1836	11727.28	5222.37	1347.222	2100.605	3812.766	842.317	10485.11	283.7108	1	115733.7	142402.6	10768.82	131633.7	138936.1	3.1061	0
11.148	126.1385	86.3485	6.4744	150.0694		5.699	2.5774	3.108	11986.66	5265.212	1351.477	2053.998	4053.811	860.1609	11147.98	283.4593	1	115709.8	143041.2	11431.44	131609.8	139361.5	3.028	0
10.3352	77.7001	86.5114	9.0332	147.8813		4.8077	2.0708	2.1887	11457.57	5458.325	1370.658	2086.234	3199.764	890.5923	8732.61	509.0852	0.8449	121970.1	147111.8	9241.695	137870.1	144136.9	2.1517	0
11.4473	121.9693	86.3804	10.2438	151.0703		6.4559	2.5465	3.0623	11501.98	5101.224	1335.189	2092.501	3738.069	833	10231.73	283.4664	0.8938	116539.5	142954.7	10515.19	132439.5	139569.8	2.9898	0
11.6335	85.8395	88.0191	5.9261	151.9461		4.4596	2.0336	2.306	12473.72	5533.757	1378.15	1963.962	4223.839	972.0099	11615.3	281.6216	0.9984	119655.6	147452.5	11896.92	135555.6	143622.9	2.2461	0
11.3894	111.2809	86.4758	8.0577	154.0458		5.2856	2.3861	2.8259	12079.99	5354.782	1360.373	1923.769	4141.599	897.4667	11389.41	282.801	1	117044.8	144620.6	11672.21	132948.4	140863.3	2.7524	0
12.1772	101.2236	87.0992	6.9003	149.0092		5.5857	2.2828	2.6733	11950.36	5289.755	1353.915	2416.33	3617.981	870.3828	9850.68	282.6214	0.8089	118851	144884.3	10133.3	134751	141622.4	2.6131	0
11.2544	117.097	87.5115	8.6441	156.4499		5.6792	2.4632	2.9395	12338.79	5269.499	1351.903	2360.928	4092.511	861.9464	11254.41	283.07	1	116533.3	143970.8	11537.48	132433.3	140268.2	2.8637	0
11.1787	136.2548	87.4609	7.0291	149.1379		6.5267	2.6969	3.2841	11995.43	5085.892	1333.666	2275.908	4064.968	833	11178.66	283.8497	1	114757.8	142120.3	11462.51	130657.8	134530.5	3.1988	0
12.2625	151.6383	87.9212	9.3548	144.7647		7.2608	2.8444	3.5018	11373.64	4926.818	1317.867	1463.531	4430.426	833	12182.52	284.1999	0.9951	112967.4	141334.1	12466.72	128867.4	137321.1	3.4024	0
11.2674	109.6456	86.4325	6.7866	156.1223		4.4807	2.3674	2.7982	12434.49	5529.172	1377.694	2058.309	4097.218	970.0999	11267.35	282.7528	1	117273.4	144723.5	11550.1	133173.4	141005.5	2.7263	0
12.6791	141.1256	88.1814	6.4694	137.6225		7.1603	2.7475	3.3589	11245.41	4948.6	1320.03	1578.465	4163.311	833	11399.03	283.9881	0.899	114221.7	141804.7	11683.02	130121.7	138043.9	3.2698	0
11.8991	141.1574	87.3333	7.9356	140.2		7.3704	2.786	3.4155	11131.55	4903.077	1315.509	2073.317	3604.651	833	9825.395	284.324	0.8257	114924.1	140933.8	10109.72	130824.1	137679.5	3.3366	0
10.6028	122.0078	87.2436	7.5872	158.4639		3.9772	2.5388	3.051	12622.66	5638.27	1388.53	2322.763	3855.558	1015.54	10602.79	283.3966	1	116363.1	143147.5	10886.18	132261.3	139643.2	2.9763	0
11.9293	90.72105	88.1177	9.709	152.6702		5.6335	2.3334	2.7481	11970.68	5279.401	1352.886	1928.585	4141.733	866.0705	11371.08	282.6296	0.9532	117472	145025.7	11653.71	133372	141274.4	2.677	0
10.6706	136.6218	88.0743	9.6398	145.3568		5.3975	2.7132	3.3081	11400.98	5330.531	1357.965	1542.899	3880.217	887.3663	10670.6	283.969	1	114954.9	141809.5	10954.57	130854.9	138283.2	3.2259	0
10.8119	126.5006	87.3691	7.3254	133.1864		7.1611	2.7297	3.1756	10660.74	4948.439	1320.014	1845.487	3311.796	833	9032.874	281.0669	0.8355	116533.6	141957.6	9523.941	132433.3	138891.8	3.1142	0
12.7254	106.5231	87.9544	8.3163	158.9824		5.403	2.2987	2.6971	12661.07	5329.354	1357.848	2084.535	4600.455	886.8759	12649.73	282.3814	0.9941	116915.6	145747.7	12932.11	132815.6	141584.9	2.62	0
13.1825	84.3063	88.1761	10.0858	149.818		4.9923	2.1025	2.3274	11699.32	5418.332	1366.685	2153.425	3434.946	923.9352	9280.641	387.9792	0.704	120973.4	146541.7	9668.32	136873.4	143425.9	2.2815	0
9.7532	100.2648	86.6478	8.1179	159.5315		7.3751	2.2714	2.6566	12501.99	5687.278	1393.398	2445.743	3546.617	1035.951	9753.199	282.5932	1	119003	144938.8	10035.79	134903	141708.3	2.9974	0
11.5961	134.0923	87.304	8.9315	153.4481		5.9855	2.6618	3.2325	12026.13	5203.136	1343.311	2024.601	4216.771	834.3059	11596.12	283.6815	1	114764.2	142544	11879.8	130664.2	138719.9	3.1457	0
12.5367	126.065	87.1769	6.9173	155.4715		5.8562	3.0606	3.0606	12540.27	5231.167	1348.096	2154.221	4558.809	845.9809	10256.73	283.1876	1	115068.2	143789.2	12819.91	130969.2	139662.4	2.9728	0
12.0324	109.9784	85.9206	7.2136	150.3333		5.8326	2.3766	2.8119	11832.29	5236.262	1348.602	1973.687	4023.637	848.103	11027.01	282.8096	0.9164	117356.2	144566	11309.81	133256.2	140925.3	2.741	0
11.546	148.259	86.4301	7.2693	154.7239		5.3701	2.8237	3.4712	11248.99	5336.477	1358.555	2063.561	4198.55	889.8425	11546.02	284.2186	1	113534.2	141264.4	11830.24	129434.2	137456.3	3.3776	0
10.9051	137.9287	87.8007	8.6531	154.2855		5.8107	2.7228	3.3223	12211.33	5241.019	1349.074	2403.649	3965.5	850.0843	10905.13	283.9706	1	114730.2	141819.3	11189.1	130630.2	138217.5	3.2379	0
11.1768	73.8993	86.7781	7.937	148.9836		4.4383	1.9624	2.0955	11746.02	5538.372	1378.608	2113.96	3339.151	973.9318	9094.423	280.6366	0.8137	122303	147718.1	9515.06	138203	144655.2	2.0566	0
11.6096	148.5027	87.4712	9.0072	148.5237		6.3849	2.8248	3.4728	11653.76	5116.595	1336.716	1743.774	4221.674	833	11609.61	284.2136	1	113483.5	141279.1	11893.82	129385.3	137450.5	3.3787	0
11.0892	109.9091	87.9201	8.7783	152.3031		5.8044	2.3842	2.823	12053.55	5242.369	1349.208	2344.16	3865.161	850.6468	10613.58	282.88	0.9571	117563.9	144360.3	10896.46	133463.9	140852.8	2.7544	0
11.2078	167.7948	87.1983	9.5088	151.0956		5.9431	3.0396	3.7896	11738.57	5122.335	1346.225	1864.307	4075.546	838.1377	11207.76	284.9766	1	112065.4	139458.2	11492.74	127965.4	135758.6	3.6891	0
11.4307	88.4344	87.0871	9.584	138.1077		6.0515	2.3977	2.4467	10703.77	5188.84	1343.892	1906.257	3029.786	833	8194.166	805.8338	0.7169	121081.2	145981.2	9000	136981.2	142703.6	2.4147	1
11.8705	103.5468	86.8525	7.1889	148.2575		5.5549	2.2959	2.6928	11810.72	5296.441	1354.579	1941.621	3942.914	873.1675	10802.07	282.566	0.91	118132.9	145117.5	11084.64	134032.9	141549.3	2.6265	0
9.6717	96.3035	87.0408	10.7492	144.6437		6.3301	2.4995	2.6114	11035.1	5128.477	1337.896	2325.2	3008.531	833	8212.901	787.0994	0.8492	120103.5	145003.5	9000	136003.5	141828.8	2.5753	1
12.3259	166.464	85.9436	7.9885	140.3026		8.2789	3.0467	3.8	10935.9	4706.238	1295.958	1874.173	3824.531	833	10438.99	285.1137	0.8469	112496.1	139120.2	10724.11	128396.1	135668.1	3.7057	0
10.5652	113.376	87.3975	8.9005	150.8739		5.1292	2.4303	2.8909	11843.15	5388.678	1363.74	1935.265	3841.881	911.5842	10565.18	283.0391	1	117234.4	143982.6	10848.21	133134.4	140490.1	2.8208	0
11.184	153.0503	87.5286	8.1857	151.3599		5.6631	2.8852	3.5619	12009.34	5294.662	1354.402	2109.839	4066.906	872.4268	11184	284.4705	1	113284.9	140653.4	11468.47	129184.9	139961.7	3.4684	0
11.3627	92.8293	87.4688	8.7709	157.7496		4.7384	2.1378	2.4597	12414.56	5473.356	1372.151	2088.300	4131.893	946.8527	11362.71	281.9372	1	119005.2	146549.9	11644.69	134905.2	142820.1	2.3984	0
11.3953	142.3288	88.1848	8.5877	153.3106		5.1886	2.7613	3.3791	12621.61	5592.465	1383.981	2102.963	4143.745	996.4615	11395.3	284.0037	1	114117	141696.3	11679.34	130017	139336.8	3.2868	0
11.6602	96.4088	88.4676	7.3007	156.4004		4.9494	2.1824	2.5254	12694.54	5427.636	1367.611	2332.734	4236.748	927.8102	11650.94	282.1055	0.9992	118469.9	146302.9	11933.05	134369.9	142467.1	2.4591	0
10.5946	175.1464	86.2135	7.8885	147.4421		6.0094	3.1307	3.9238	11548.4	5197.974	1344.799	1918.056	3852.574	833	10594.58	285.3705	1	111742.6	138522.5	10879.95	127642.6	135020.3	3.8246	0
11.2084	106.5905	88.0565	8.282																					

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	9 b Mandate, Tax Credit and Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of Mandate Binding
12.4724	169.0617	86.941	7.9919	154.7384		6.0204	3.0181	3.758	12216.45	5195.574	1344.56	1905.882	4535.43	833	12472.44	284.7205	1	111433	140090.2	12757.16	127333	135983.7	3.6478	0
11.1086	129.0376	87.6866	10.3693	156.3479		5.0897	2.6133	3.1609	12088.4	5397.231	1364.59	1969.933	4039.503	915.1467	11108.63	283.5826	1	115454.9	142747.2	11392.22	131354.9	139080	3.0797	0
11.5612	144.5858	86.6017	6.6596	145.8592		7.1171	2.7863	3.4161	11368.57	4957.955	1320.959	1704.779	4149.877	833	11408.39	284.1144	0.9868	113913.2	141505.7	11692.5	129813.2	137741.9	3.3252	0
12.6516	117.2067	86.7561	7.5988	151.8055		6.166	2.464	2.9407	12016.52	5164.03	1341.427	2153.096	4122.964	833	11284.04	283.0691	0.8919	116508.4	143975.5	11567.1	132408.4	140252	2.8646	0
11.2913	91.2162	86.389	6.7458	151.0271		5.5163	2.26	2.4836	12028.28	5304.805	1355.41	2814.012	3275.404	876.6512	8905.517	488.5417	0.7887	120302	145596	9394.059	136202	142572.1	2.4389	0
10.2052	74.4644	86.9298	9.6413	152.7716		4.652	2.0276	2.1157	11807.49	5492.065	1374.009	2414.942	3169.83	954.6452	8652.512	521.0823	0.8479	122402.1	147475.7	9173.594	138302.1	144522.7	2.081	0
11.6061	119.1132	86.986	9.3675	158.0583		5.3635	2.4809	2.9657	12268.25	5337.908	1358.697	2058.797	4220.413	890.4386	11606.14	283.0877	1	116168.7	143958	11889.23	132068.7	140130.8	2.8868	0
11.2591	88.5715	88.3634	9.1177	145.9147		5.1036	2.152	2.4184	11559.17	5394.228	1364.291	2042.212	3442.546	913.8961	9388.524	364.0788	0.8339	120438.2	146090.8	9752.603	136338.2	142951.5	2.3693	0
10.9344	132.5503	87.1643	5.7367	154.3762		4.8614	2.6592	3.2285	12570.49	5446.706	1369.504	2440.376	3976.152	935.753	10934.42	283.756	1	115208.3	142326.5	11218.18	131108.3	138715.4	3.1466	0
11.8437	128.9608	86.5186	6.4512	148.7314		5.6881	2.5956	3.1348	11908.53	5267.588	1351.713	1719.279	4306.8	861.1504	11843.71	283.4343	1	115122.1	143149.2	12127.14	131022.1	139245.5	3.0493	0
11.2378	142.4656	86.1661	8.3801	149.2754		6.3613	2.7666	3.387	11611.54	5121.713	1337.224	1831.128	4086.47	833	11237.79	284.0722	1	114175.4	141597.3	11521.87	130075.4	137888.4	3.2983	0
10.5391	96.6063	88.0439	9.1077	150.0344		5.2288	2.2158	2.5746	11843.13	5367.809	1361.596	2165.911	3643.944	902.5928	10002.54	282.3801	0.9491	119277.5	145465.2	10284.92	135177.5	142151.8	2.516	0
11.9491	139.2239	86.7402	7.8463	136.2684		7.5276	2.8211	3.3928	10750.75	4869.02	1312.126	1874.881	3459.726	833	9405.639	382.7257	0.7871	115230.4	140918.8	9788.365	131130.4	137767.9	3.3204	0
11.1369	127.5284	88.4015	7.1402	148.6403		5.8241	2.5945	3.1331	12078.71	5238.113	1348.786	2191.161	4049.776	848.8741	11136.89	283.517	1	115583.6	142904	11420.4	131483.6	139227.8	3.0525	0
11.1982	141.5484	87.9329	6.0692	153.5949		3.677	2.7572	3.3731	12573.84	5703.327	1394.992	1958.809	4072.079	1042.636	11198.22	284.0463	1	114274.3	141656.5	11482.27	130174.3	137960.4	3.2851	0
12.1481	77.9251	86.8384	7.6926	145.2154		4.4559	1.964	2.1798	11493.19	5534.562	1378.23	1681.066	3524.986	972.3452	9584.276	312.3813	0.789	121623.9	147420.6	9896.657	137523.9	144234.9	2.1338	0
10.777	97.1873	86.1058	9.1486	144.9064		6.003	2.3972	2.6152	11151.6	5199.349	1344.935	2217.97	3154.343	833	8580.852	582.4986	0.7962	119735	144798.4	9163.35	135635	141848.7	2.5716	0
11.2487	137.5327	88.6182	6.9085	144.8157		6.0944	2.71	3.3035	11832.85	5179.557	1342.97	1984.892	4090.429	833	11248.68	283.8841	1	114610.5	142043.1	11532.57	130510.5	138330.7	3.2171	0
12.4782	134.9621	87.8678	6.9007	155.6728		4.8854	2.6511	3.2168	12604.38	5441.492	1368.986	1920.796	4537.523	933.5813	12478.19	283.5361	1	114282.7	142944.4	12761.73	130182.7	138836.4	3.1243	0
11.0851	137.092	87.635	8.5119	154.6664		5.8149	2.7088	3.3017	12237.68	5240.1	1348.983	2365.942	4030.952	849.7017	11085.12	283.9011	1	114724.4	141993.4	11369.02	130624.4	138333.7	3.2166	0
11.9268	149.3846	88.1226	7.2636	153.246		6.0598	2.8264	3.4753	12391.31	5187.041	1343.713	2288.538	4337.021	833	11926.81	284.1761	1	113270.2	141381.2	12210.99	129170.2	137450.5	3.3787	0
11.531	142.5909	85.766	7.6345	153.0351		5.7264	2.7609	3.3786	11998.06	5259.291	1350.889	1935.084	4193.107	857.6946	11531.04	284.0147	1	114033.2	141748.3	11815.06	129933.2	137945	3.2879	0
12.3112	137.371	87.633	8.5283	158.2823		6.1053	2.6828	3.2634	12520.87	5177.183	1342.734	2289.16	4476.795	833	12311.19	283.6593	1	114144.3	142638.3	12594.85	130043.3	138584	3.1708	0
11.6409	132.0571	86.6346	7.4645	150.9478		6.1072	2.6369	3.1957	11950.55	5176.766	1342.692	1963.024	4233.068	833	11640.19	283.5943	1	114929.7	142754.3	11924.53	130829.7	138915.8	3.1907	0
9.6375	177.7478	87.565	8.8145	157.2419		3.2267	3.1962	3.9998	12382.88	5800.886	1404.682	2187.501	3504.547	1083.2699	9637.507	312.8751	1	111919.4	137769.8	9950.382	127819.4	134567.8	3.9078	0
11.2365	137.8322	85.9071	8.9544	138.01		7.307	2.7749	3.3653	10620.24	4916.817	1316.873	1645.003	3506.548	833	9574.157	328.929	0.8521	115313.5	141116.6	9903.086	131213.5	13928.8	3.2909	0
10.1025	96.9657	85.8931	7.522	143.6801		5.7798	2.3512	2.6053	11260.37	5247.706	1349.738	2165.047	3243.007	852.8696	8868.449	505.9414	0.8779	119663.6	144938	9374.426	135563.6	141920.4	2.5585	0
12.0459	88.6727	85.6006	7.2317	148.8516		4.8681	2.0933	2.3939	11665.34	5445.24	1369.358	1660.614	3852.987	935.1426	10533.49	281.9178	0.8745	119892.4	146660.8	10816.41	135792.4	143127	2.337	0
11.053	155.4331	88.1007	8.7108	148.7758		5.3268	2.9143	3.6047	11881.29	5345.867	1358.488	1790.918	4019.268	893.7536	11052.99	284.5848	1	113141.3	140378.9	11337.57	129041.3	136729.3	3.511	0
11.4423	105.2548	88.7571	8.9438	138.8575		6.169	2.4431	2.7707	11082.67	5163.381	1341.363	2015.756	3327.175	833	9049.394	466.6913	0.7936	118697.9	144114	9516.085	134597.9	141050.8	2.718	0
11.0723	85.5107	87.2475	7.7514	142.5768		5.7316	2.3134	2.3782	11334.3	5258.161	1350.777	2415.941	3050.196	857.2239	8268.087	731.9129	0.7467	121337	146237	9000	137327	143082.3	2.3453	1
11.3513	80.995	85.7065	9.0902	145.5742		5.7089	2.3031	2.286	11153.35	5263.073	1351.265	2258.778	3018.96	859.2701	8166.511	833.4888	0.7194	122069	146969	9000	137969	143556.4	2.2583	1
11.4008	125.5466	86.5433	8.2516	144.0509		6.7133	2.6074	3.1452	11277.99	5045.447	1328.649	2119.774	3548.116	833	9686.163	292.7841	0.8496	116441.4	142320.3	9978.947	132341.4	139108.1	3.0745	0
11.7426	157.5996	87.2278	8.7185	139.3434		7.1368	2.9344	3.6345	10939.75	4823.7	1307.625	1505.265	4068.163	833	11168.02	284.6353	0.9511	112910.9	140263.5	11452.65	128810.9	136576.9	3.539	0
10.0114	90.541	86.6914	7.397	155.6799		4.1049	2.1295	2.4472	12344.55	5610.616	1385.784	2301.602	3640.526	1004.021	10011.45	282.0884	1	119948.9	146142.5	10293.53	135848.9	142829	2.3917	0
11.5764	170.3689	86.8501	5.8957	141.6649		6.5554	3.0557	3.8134	11468.4	5079.654	1333.047	1611.108	4209.589	833	11576.37	284.9749	1	111707.2	139468.5	11861.35	127607.2	136560.4	3.709	0
11.8158	107.7552	86.9807	8.5295	144.279		5.8862	2.3714	2.804	11318.85	5224.85	1347.448	1893.012	3608.478	843.2665	9840.389	282.9217	0.8328	118162.9	144186.2	11023.31	134062.9	140927.5	2.7406	0
9.5248	131.9593	88.2604	7.7205	154.1338		4.2185	2.7133	3.2636	12413.93	5585.988	1383.338	2585.278	3463.558	993.764	9524.787	343.0968	1	115873.6	141641.5	9867.884	131773.6	138465	3.1825	0
10.4439	112.899	86.0588	9.1381	157.83		2.4267	2.8856	2.8140	1240.39	5379.637	1362.842	2290.302	3797.789	807.919	10433.93	283.0046	1	117341	143967.9	10726.97	133241	140514.9	2.8164	0
10.8627	104.8566	86.4106	10.0349	146.0789		6.2041	2.4581	2.7653	11156.87	5155.785	1340.609	2153.458	3272.023	833	8915.813	503.145	0.8208	118783.2	144102.2	9418.958	134683.2	141070.2	2.7145	0
11.7192	122.4673	88.6617	10.3668	155.5752		5.0031	2.5199	3.0232	12024.15	5415.991	1366.453	1655.208	4261.539	922.9603	11719.23	283.2021	1	115791.9	143694.4	12002.44	131691.9	139830.8	2.9419	0
12.3997	131.2704	86.8439	10.0671	156.7704		6.8442	2.6484																	

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	9 b Mandate, Tax Credit and Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of Mandate Binding
11.55	176.994	87.3057	8.2052	157.8839		5.0775	3.1223	3.9116	12488.7	5399.876	1364.852	2205.729	4199.992	916.2485	11549.98	285.1971	1	111205.3	138940.5	11835.18	127105.3	135130.7	3.8043	0
11.3849	132.7521	88.0736	7.3423	139.1761		6.8781	2.6734	3.2494	12335.87	5009.738	1326.103	1860.411	3804.616	833	10426.42	283.8674	0.9158	115422.2	142032.4	10710.29	131322.2	135854.8	3.1705	0
11.9823	148.1572	87.9518	6.3786	136.2498		7.5053	2.8435	3.5003	11114.33	4873.841	1312.605	1779.601	3913.284	833	10711.4	284.3972	0.8939	113911	140806.8	10995.8	129811	137267.3	3.4123	0
10.7491	148.0156	88.8924	6.5249	152.3195		4.8877	2.8409	3.4966	12546.18	5441.001	1368.937	2492.118	3908.751	933.377	10749.07	284.3837	1	113909.7	140480.2	11033.45	129806.7	137288.5	3.4084	0
12.2489	79.5448	87.8038	10.4784	148.4465		2.2041	2.1821	2.2409	11478.69	5353.754	1360.271	2372.16	3093.467	897.0386	8342.794	657.2063	0.6811	121975.5	146875.5	9000	137875.5	143827.7	2.2085	1
11.2736	129.5737	87.6232	8.2828	144.5128		5.9356	2.6159	3.1648	11465.7	5213.943	1346.385	1565.066	4099.502	838.8073	11273.63	283.5709	1	115328.6	142785.8	11557.2	131228.6	139065.6	3.0823	0
11.1858	131.2267	86.5218	7.2352	146.4666		6.861	2.6633	3.2345	11612.85	5013.45	1326.471	2358.599	3679.327	833	10074.81	283.878	0.9007	115725.8	141984.5	10358.69	131625.8	138650	3.1586	0
10.6696	130.4461	86.547	8.2226	155.2125		5.936	2.6402	3.2006	12156.91	5213.861	1346.377	2476.035	3879.869	838.7731	10669.64	283.7263	1	115525.6	142379	10953.37	131425.6	138853.1	3.1213	0
11.6247	156.509	88.3309	9.3352	147.7862		5.9469	2.911	3.5999	11674.47	5211.507	1346.143	1649.869	4227.158	837.7925	11624.69	284.4938	1	112804	140613.2	11909.18	128704	136779.6	3.5018	0
11.9158	117.4464	86.8008	9.618	145.1073		6.3051	2.4922	2.9823	11199.8	5133.905	1338.435	1790.609	3701.848	833	10104.84	283.2991	0.848	117045.8	143333.9	10388.14	132945.8	139990	2.9127	0
11.4632	104.7693	87.9459	9.1158	155.4436		5.3287	2.2993	2.6979	12253.64	5345.441	1359.446	2086.212	4166.965	893.5762	11459.12	282.5084	0.9996	117681.1	145322.7	11741.62	133581.1	141543.1	2.6277	0
11.6193	141.838	86.9106	5.6976	155.2253		5.4704	2.7502	3.3629	12606.31	5314.741	1356.396	2427.173	4225.211	880.7895	11619.33	283.9682	1	114059.9	141863.2	11903.3	129595.9	138031.6	2.7272	0
11.5397	97.1253	87.932	8.34	142.176		5.7948	2.3361	2.6064	11329.62	5244.452	1349.415	2161.035	3307.658	851.5144	8986.916	474.834	0.7788	119606.3	144968	9461.75	135506.3	141922.3	2.5581	0
12.1673	109.7081	87.0723	9.6066	151.8203		5.7305	2.3614	2.7893	11760.87	5258.391	1350.8	1666.221	4226.134	824.3199	11603.01	282.8964	0.9536	117103.9	144889.6	11885.71	133003.9	141063.6	2.7157	0
12.3323	88.9937	88.6209	9.0157	148.4938		4.9874	2.1122	2.4218	11818.2	5419.401	1366.792	2131.286	3574.344	937.3806	9171.826	282.079	0.788	120275	146174.9	9999.905	136175	142956	2.3684	0
11.1181	154.5905	86.141	7.6051	148.9873		6.8101	2.9035	3.5889	11700.85	5024.669	1347.566	2070.875	4042.939	833	11118.09	284.5402	1	113183.8	140486.4	11402.63	129083.8	136815.9	3.4951	0
11.0799	147.8401	86.7959	7.249	151.616		6.1848	2.8307	3.4815	12060.6	5159.963	1321.023	2295.543	4029.667	833	10709.94	284.3049	1	113776	141040.2	11364.24	129676	137382.1	3.3912	0
10.4559	138.023	87.9013	9.5523	139.1007		7.3738	2.808	3.3722	10898.39	4902.336	1315.435	2012.586	3433.034	833	9399.514	284.2222	0.899	115342.3	141026.1	9783.737	131242.3	137877.6	3.3005	0
11.8365	129.4002	86.8552	7.3803	151.639		5.9988	2.601	3.1427	12051.51	5200.258	1345.026	1966.918	4304.196	833.1076	11836.54	283.4527	1	115084.6	143104.6	12119.99	130984.6	139203.2	3.057	0
12.5311	159.6374	87.844	11.1011	134.88		8.9367	3.1921	3.745	10351.08	4563.716	1281.802	2060.146	3210.412	833	8665.418	641.1571	0.6915	113616.8	138823.4	9306.575	129516.8	135827.6	3.6764	0
11.2405	125.3866	87.1331	7.8243	154.74		5.0969	2.5662	3.0914	12272.25	5395.664	1364.434	2108.193	4087.461	914.944	11240.52	283.4111	1	115738	143161.9	11523.93	131638	139452.4	2.8104	0
11.2267	109.1209	86.8122	9.2448	139.2261		6.5567	2.5734	2.8565	10799.41	5057.722	1330.869	2020.242	3155.581	833	8563.881	607.5709	0.7628	118439	143510.5	9171.451	134339	140582.6	3.0113	0
10.8658	127.4589	87.9925	9.3325	151.4349		6.5439	2.6065	3.1507	11911.88	5082.147	1333.295	2413.889	3847.545	833	10572.09	280.6258	0.973	115852.2	142607.9	10855.72	131752.2	139113.4	3.0735	0
10.4541	96.266	87.4655	9.6678	145.6294		5.7573	2.3886	2.5905	11329.62	5252.595	1350.224	2215.699	3254.198	854.9059	8883.894	503.9388	0.8498	119736.7	145021.6	9384.833	135636.7	142000.6	2.5437	0
10.9969	117.8668	87.7702	7.3469	145.6358		5.9681	2.479	2.9628	11782.51	5206.901	1346.686	1928.624	3993.428	835.8774	10981.72	283.1535	0.9986	116585.3	143750.2	11264.87	132485.3	140124	2.8881	0
11.7072	70.1408	87.0771	7.7951	147.4272		4.7485	2.036	2.025	11688.33	5471.163	1371.933	2411.495	3085.796	945.9393	8342.916	657.084	0.7126	123216.6	148116.6	9000	139116.6	144979.5	1.9971	1
10.9271	125.5096	88.7215	8.0769	155.4159		5.8423	2.5747	3.104	12533.44	5234.172	1348.394	2728.131	487.2328	847.2328	10927.14	283.4771	1	115872.5	142983.1	11210.62	131772.5	139374.4	3.0256	0
12.0269	124.7537	89.0733	6.7241	146.8239		6.2021	2.5416	3.0553	12090.86	5156.216	1340.651	1997.016	4361.982	833	11994.93	283.2404	0.9973	115445.4	143623.6	12278.17	131345.4	139671.2	2.9712	0
11.247	107.0823	87.0443	7.3495	147.7855		5.7033	2.3478	2.7693	11777.75	5264.285	1351.385	2048.211	3852.093	859.7745	10569.28	282.7635	0.9397	11787.3	144629.3	10852.04	133777.3	141136	2.7024	0
11.2716	117.2204	87.0817	9.8172	150.5231		6.2113	2.4844	2.9707	11630.09	5154.226	1340.354	2128.707	3771.701	833	10336.91	283.2459	0.9171	116958	143478.1	10620.15	132858	140059.5	2.8999	0
11.8943	89.6787	87.1655	8.5834	154.9778		4.9398	2.1119	2.4213	12178.48	5429.716	1367.816	2279.907	3770.362	928.6766	10303.47	282.0106	0.8663	119897.1	146382.5	10585.47	135797.1	142975.1	2.3649	0
11.6078	177.6966	86.0717	8.4227	148.1199		7.334	3.1276	3.9194	15101.37	4910.975	1316.293	1818.092	4221.009	833	11607.78	285.2056	1	111127.8	138920.8	11892.99	127027.8	135092.5	3.8113	0
12.5415	79.8205	87.1562	8.3369	152.489		4.5456	1.9864	2.2217	12019.09	5515.111	1376.298	2212.086	3549.348	964.2439	9636.394	300.7004	0.7964	121376.7	147213.8	9937.134	137276.7	144015.1	2.741	0
12.4501	121.1209	88.1744	8.2235	152.4271		6.0362	2.4884	2.9768	12186.69	5192.158	1344.221	2910.897	4509.416	833	12399.96	283.0203	0.688	115599.6	144182.6	12683	131499.6	140099.9	2.8925	0
11.5797	106.7751	87.3616	9.2128	154.5451		5.7877	2.3526	2.7764	12077.51	5245.998	1349.569	2524.827	3702.96	852.1583	10124.16	282.8277	0.8743	118126.9	144433.9	10406.99	134026.9	141083.9	2.712	0
11.1314	114.1247	86.5453	8.3918	151.4775		6.0024	2.439	2.9038	11838.5	5199.471	1344.947	2194.6	3864.48	833	10609.85	283.0631	0.9531	117137.4	143930.3	10892.92	133037.4	140423.9	2.8331	0
9.8669	139.4809	87.2375	8.7243	153.7046		4.4808	2.7656	3.3854	12067.84	5529.163	1377.694	2200.925	3587.966	970.0964	9866.893	284.2496	1	115057.4	141108.5	10151.14	130957.4	137840.9	3.0707	0
11.7033	136.7052	88.0086	7.8579	145.3433		6.5221	2.6896	3.2735	11649.37	5086.883	1333.765	1737.98	4255.399	833	11703.28	283.7589	1	114478.9	142365.9	11987.04	130378.9	138057.3	3.1847	0
10.7402	98.5518	86.598	5.7718	143.0636		5.7026	2.3248	2.632	11563.3	5264.429	1351.399	2316.195	3369.444	859.8345	9302.544	419.08	0.8568	119376.7	144898.3	9621.624	135276.7	141801.1	2.5804	0
12.1522	142.389	86.7799	8.1104	146.1967		7.1421	2.7602	3.3776	11501.22	4952.553	1320.423	1815.507	4177.374	833	11464.77	284.0212	0.9434	114080.6	141729.4	11748.79	129980.6	137947.5	3.2875	0
11.3653	102.115	88.0724	7.2578	141.7068		5.5054	2.2839	2.675	11451.98	5307.174	1355.645	1706.213	3803.315	877.6739	10423.59	282.5655	0.9171	118471.6	145077.8	10706.15	134371.6	141631.5	2.6115	0
11.6919	159.7542	87.4901																						

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	9 b Mandate, Tax Credit and Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of Mandate Binding
10.4747	111.1531	86.8386	9.5151	152.0403		5.0471	2.4033	2.8511	11756.28	5406.463	1365.507	1854.336	3808.983	918.9919	10474.71	282.9591	1	117503.8	144161.5	10757.67	133403.8	140698.6	2.7827	0
11.3227	129.8279	88.0699	10.1338	143.6434		6.5785	2.6229	3.1751	11195	5074.65	1332.55	1513.654	4039.147	833	11101.64	283.6152	0.9805	115384.3	142669.5	11385.25	131284.3	139004.6	3.0935	0
10.8865	115.8246	87.2734	9.5031	150.0046		6.0935	2.4655	2.9429	11665.91	5179.738	1342.988	2125.273	3782.91	833	10386.32	283.1771	0.9541	117073.8	143643.3	10669.5	132973.8	140208.8	2.8725	0
12.0084	161.9427	87.5198	7.8881	146.5011		7.295	2.958	3.6693	11666.13	4919.413	1317.131	1827.881	4366.702	833	12008.43	284.5928	1	112194.6	140387.6	12293.02	128094.6	136430.5	3.5658	0
11.8496	124.8108	86.9278	7.1591	157.6246		2.5456	2.5456	3.0611	12573.52	5476.816	1372.494	2064.957	4308.955	948.2939	11849.63	283.2705	1	115508	143540.9	12132.9	131408	139635.3	2.9778	0
11.9596	110.9494	87.259	9.0595	156.1155		5.0707	2.3701	2.8022	12208.15	5401.345	1364.998	1774.007	4348.944	916.86	11959.6	282.6861	1	116805.6	144947.8	12242.29	132705.6	141007	2.7261	0
11.0676	121.8103	87.9303	7.4354	146.2658		5.741	2.5262	3.0324	11773.65	5256.114	1350.573	1884.021	4024.571	856.3713	11067.57	283.2995	1	116161.8	143412.7	11350.87	132061.8	139758.8	2.9551	0
12.7357	100.08	87.9494	8.6789	148.5896		5.4588	2.252	2.6279	11778.77	5317.266	1356.647	1920.162	3900.85	881.8412	10639.48	282.3466	0.8354	118581.9	145403.8	10921.91	134481.9	141888.1	2.5644	0
11.8117	126.5806	89.0418	10.153	152.9556		5.9298	2.5678	3.0938	12066.48	5215.208	1346.511	1968.279	4295.145	839.3342	11811.65	283.3476	1	115359.1	143354.1	12095	131259.1	139460.7	3.0098	0
10.8942	106.4822	86.9084	8.8331	141.4693		6.5544	2.5479	2.8058	11045.27	5079.883	1333.07	2273.794	3123.522	833	8486.761	624.7539	0.779	118745.1	143756.6	9111.515	134645.1	140232.6	2.7597	0
12.5437	96.4342	87.8708	10.1092	154.4098		5.2644	2.2006	2.5522	12007.17	5359.388	1360.831	2069.219	3916.343	899.3853	10693.34	282.2601	0.8525	118949.1	145824.7	10975.6	134849.1	142293.2	2.4903	0
10.6215	156.7641	87.9946	9.124	148.0108		5.3717	2.9397	3.6422	11673.7	5363.132	1358.521	1824.995	3862.353	889.6988	10621.47	284.7302	1	113216.3	140022.5	10962.2	129116.3	136511.8	3.5509	0
10.5829	100.2919	86.1622	8.0245	141.944		6.3899	2.5031	2.6866	11091.19	5115.518	1336.609	2348.595	3055.468	833	8305.243	694.7572	0.7848	119521.5	144421.5	9000	135421.5	141443.9	2.6459	1
12.1718	160.5926	87.9784	7.4909	146.1366		7.2784	2.9396	3.6422	11762.16	4923.01	1317.489	1860.57	4426.093	833	11271.76	284.51	1	112233.7	140590	12456.27	128133.7	136580.3	3.5383	0
12.0827	128.98	87.6557	9.4534	148.4872		6.6016	2.6059	3.15	11612.05	5069.643	1332.053	1820.926	4154.428	833	11400.89	283.5224	0.9436	115325.2	142909.6	11684.41	131225.2	139148.4	3.0671	0
11.3552	132.111	87.5477	8.6169	147.8987		6.5848	2.6456	3.2085	11673.76	5073.284	1332.414	1925.42	4107.644	833	11294.84	283.666	0.9947	115048.6	142562.1	11578.5	130983.6	138835	3.1246	0
11.1957	138.6577	88.186	7.6141	135.1419		7.2172	2.757	3.3726	10888.65	4936.271	1318.806	1804.086	3594.483	833	9829.727	284.2251	0.878	115149.1	141163.1	10113.95	131049.1	137907.4	3.2948	0
12.1288	144.172	87.498	5.7457	149.887		6.4464	2.7639	3.3831	12253.61	5103.277	1335.393	2169.487	4410.453	833	11218.75	283.9459	1	113628.2	141940.9	12412.7	129528.2	137945.2	3.2879	0
11.1945	136.3682	85.1832	6.3338	154.5759		5.3361	2.6978	3.2855	11288.22	5343.839	1359.287	2119.447	4070.742	892.9089	11194.54	283.8508	1	114740.3	142118.7	11478.39	130640.3	138423.8	3.2001	0
11.3411	113.2938	87.94	7.113	146.8664		5.8932	2.4193	2.8747	11870.77	5223.146	1347.299	2037.382	4018.302	842.6402	11041.55	282.949	0.9736	117013.5	144238	11324.5	132913.5	140592.7	2.8021	0
12.0818	118.0318	87.1927	6.9124	155.8201		5.9647	2.4592	2.9337	12509.29	5207.639	1345.759	2358.17	4359.536	836.8117	11986.66	282.9732	0.9921	116093	144262.7	12269.63	131993	140313.1	2.854	0
11.538	106.433	87.3656	9.3601	137.087		2.4641	2.7947	3.0938	10693.53	5145.358	1339.573	1654.5	3319.102	833	9019.915	476.0503	0.7818	118581.4	143977.3	9495.965	134481.4	140920.6	2.7419	0
10.8888	87.8818	87.3575	8.1411	141.4444		5.2289	2.1869	2.4092	11204.71	5367.066	1361.594	1847.561	3323.91	902.583	9064.137	444.3767	0.8324	120631.8	146040.3	9508.513	136531.8	142979.5	2.3641	0
11.1971	115.2358	87.1191	9.2075	143.5665		6.4462	2.5292	2.9594	11185.49	5103.318	1335.397	2079.297	3432.48	833	9362.456	385.5403	0.8361	117558.9	143206.9	9747.996	133458.9	140069	2.8982	0
12.0118	119.7855	86.7408	10.0675	156.0744		6.2895	2.5041	2.9998	11264.66	5137.268	1338.769	2266.326	3987.3	833	10923.31	283.2305	0.9094	116426.7	143533.3	11206.56	132326.7	139925.9	2.9244	0
11.0396	121.8131	88.509	6.6991	149.5225		5.228	2.5268	3.0333	12232.44	5367.26	1361.613	2184.508	4014.397	902.6639	11039.59	283.2435	1	116174.7	143397.6	11322.9	132074.7	139752.7	2.9562	0
12.0728	105.416	87.6172	7.2896	149.8718		5.1767	2.3196	2.7277	12034.51	5378.379	1362.717	2030.361	3953.754	907.2948	10872.83	282.837	1	117902.1	144957.5	11555.46	133802.1	141366.6	2.6601	0
10.8838	102.7143	87.819	5.4366	148.2217		6.4366	2.2739	2.6604	11833.76	5322.063	1357.124	1732.323	4136.41	883.8394	11352.61	282.436	0.9458	117948.3	145483.3	11635.04	133848.3	141738	2.5919	0
10.9707	112.1543	88.9311	8.6275	147.8796		5.2107	2.4061	2.8552	11875.27	5371.006	1361.985	1846.723	3989.331	904.224	10970.66	282.9132	1	117162.5	144316.1	11253.58	133062.5	140693.6	2.7836	0
11.6959	117.6479	86.92	7.1691	158.4359		3.8804	2.4607	2.9358	12635.4	5659.241	1390.613	1906.202	4253.069	1024.274	11695.95	283.0112	1	116268.9	144147.8	11978.96	132168.9	140291.8	2.8573	0
11.3026	122.7564	87.1846	9.9483	146.1904		6.4389	2.5516	3.0698	11291.21	5104.907	1335.555	1805.8	3809.949	833	10445.59	283.4579	0.9242	116362.4	142991.5	10729.05	132262.4	139537.8	2.9956	0
11.1395	123.801	88.2656	6.529	151.0047		5.6095	2.5491	3.0662	12345.87	5284.605	1353.403	2386.903	4050.726	868.2378	11139.5	283.3668	1	115936.4	143259.3	11422.87	131836.4	139582.3	2.9875	0
10.6609	119.9884	87.6461	7.8384	144.1999		4.8602	2.5124	3.012	11508.26	5446.959	1369.521	1477.216	3876.702	935.8585	10660.93	283.3016	1	116530.9	143375.2	10944.23	132430.9	139852.2	2.938	0
12.8744	142.7166	87.7676	9.4645	144.3236		7.8192	2.8882	3.4554	11300.98	4805.842	1305.851	2531.134	3423.157	833	9259.757	430.9542	0.7192	114950.8	140541.5	9690.711	130850.8	137422.1	3.3839	0
10.6055	91.8595	87.2496	8.1379	144.5208		5.1618	2.1814	2.4864	11433.29	5381.6	1363.037	1899.631	3478.384	908.6365	9523.136	331.689	0.8979	120016.3	145771.1	9854.825	135916.3	142598.9	2.434	0
12.8292	178.0724	88.2027	10.4828	148.32		7.3975	3.0969	3.8742	11527.41	4897.212	1314.926	1415.114	4665.154	833	12829.18	284.9208	1	110595.6	139607.9	13114.1	126495.6	135388.3	3.7571	0
11.8971	128.8115	87.5978	8.5968	156.549		5.9985	2.5926	3.1304	12367.53	5200.335	1345.033	2260.817	4326.203	833.1394	11897.06	283.418	1	115111.2	143191.7	12180.48	131011.2	139270.8	3.0446	0
12.5527	124.9817	86.7158	8.5125	148.0444		6.5468	2.567	3.0926	11577.55	5081.52	1333.232	1910.034	4017.767	833	10985.42	283.4444	0.8751	115895.6	143064.5	11268.86	131795.6	139437	3.0111	0
12.4931	170.8107	87.2064	8.1918	142.6265		8.2289	3.0609	3.821	11269.58	4717.076	1297.035	1807.988	4212.485	833	11549.38	284.9959	0.9245	111683.9	139418.3	11834.38	127583.9	135608.8	3.7166	0
11.9085	130.085	87.1458	8.9601	134.2686		7.124	2.7092	3.2324	10497.88	4956.473	1320.812	1522.954	3462.637	833	9415.889	376.1001	0.7907	116081.2	141773.2	9791.989	131981.2	138621.2	3.1638	0
11.4444	147.9728	86.595	9.3761	134.3562		8.1976	3.0668	3.5501	10374.83	4723.852	1297.708	1826.958	3291.312	833	8944.259	357.0985	0.7815	114560.9	139942.3	9481.358	130460.9	136890.2	3.4815	0
10.4371	104.6505	88.6997	8.2737	155.0146																				

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	9 bg Mandate, Tax Credit and Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of Mandate Binding
11.0444	124.8894	87.1476	6.4312	141.9458		5.2932	2.5645	3.089	11457.35	5353.13	1360.209	1429.093	4016.136	896.7786	11044.38	283.4292	1	115877.9	143104.7	11327.81	131776.9	139458.3	3.0102	0
11.3649	132.3552	87.4064	7.4866	146.6582		5.204	2.6468	3.2103	11728.82	5372.466	1362.13	1554.69	4132.706	904.8321	11364.94	283.6613	1	115029	142577.6	11648.61	130929	138827.9	3.1259	0
11.5252	117.5197	86.738	9.6021	145.635		6.6959	2.5906	3.0066	11233.69	5049.219	1330.224	2248.565	3370.881	833	9169.517	443.0906	0.7956	117388.4	142897.4	9612.608	133284.8	139803.1	2.947	0
12.4634	133.4703	86.8747	7.8951	135.4953		6.9675	2.6785	3.257	10701.36	4990.381	1324.18	1278.86	3872.938	833	10572	283.866	0.8482	115289	142044.9	10855.87	131189	138504.4	3.1768	0
12.3768	113.7163	88.3941	8.5695	138.7603		6.2905	2.4735	2.9261	11076.49	5137.063	1338.749	1836.796	3528.878	833	9585	320.9408	0.7744	117647	143452.9	9905.94	133547	140264.2	2.8624	0
11.2786	163.5583	85.9264	9.0522	149.5552		7.077	2.9941	3.7225	11496.93	4966.64	1321.822	1872.181	4101.292	833	11278.56	284.8163	1	112375.4	139838.7	11563.37	128275.4	136116.5	3.6234	0
11.7446	125.7493	86.9816	8.5808	154.7754		6.2698	2.5601	3.0825	12557.07	5141.547	1339.194	2583.287	4258.038	833	11709	283.3347	0.997	115485.1	143377.4	11992.34	131385.1	139517.1	2.9994	0
12.0654	125.8449	86.539	8.0105	156.4112		5.4363	2.5532	3.0724	12282.73	5322.127	1357.13	1930.198	4387.407	883.8657	12065.37	283.2696	1	115309.8	143558.5	12348.64	131209.8	139583.4	2.9873	0
11.6676	110.961	86.6567	8.7276	143.176		6.2892	2.3893	2.8305	11157.57	5234.63	1348.44	1304.514	4020.564	847.4235	11034.66	282.8506	0.9458	117252.5	144470	11317.51	133152.5	140826.9	2.7591	0
11.7749	139.3003	87.3221	8.8242	142.0406		7.2357	2.7572	3.3729	11149.88	4932.272	1318.408	1955.026	3709.173	833	10132.72	284.1861	0.8605	114954.3	141271.2	10416.9	130854.3	137918	3.2929	0
11.3517	149.6911	87.9033	8.0976	148.7712		6.4328	2.8443	3.5016	11872.79	5106.227	1335.686	2067.995	4127.885	833	11351.69	284.3127	1	113497.1	141033.1	11636	129397.1	137287.5	3.4086	0
10.8346	154.4981	87.3525	8.0335	148.4722		5.6027	2.9098	3.5981	11776.66	5286.085	1353.55	1926.323	3939.852	868.8542	10834.6	284.6007	1	113314.6	140333.8	11119.2	129214.6	136754.6	3.5064	0
12.8356	111.6841	87.4476	7.1737	157.2726		5.4376	2.3614	2.7895	12624.88	5321.845	1357.102	1992.702	4667.487	883.7486	12835.59	282.5626	1	116307.8	145326	13118.15	132207.8	141103.2	2.7084	0
10.6783	114.6256	87.2051	5.3185	145.586		3.7626	2.444	2.9112	12936.95	5684.769	1393.149	2539.095	3883.026	1034.906	10678.33	283.072	1	117054.3	143915.7	10961.4	132954.3	140387.2	2.8398	0
10.7697	116.9473	87.5753	10.1929	146.5481		6.0994	2.478	2.9613	11340.24	5178.473	1342.862	1771.984	3811.926	833	10474.05	283.2087	0.9725	116919.9	143577.1	10757.26	132819.9	140114.4	2.8899	0
11.7728	148.8708	86.9177	7.1018	148.6993		6.2021	2.8247	3.4727	11868.57	5156.209	1340.651	1855.714	4281	833	11772.75	284.1913	1	113381.8	141338.8	12056.94	129281.8	137457.7	3.3773	0
11.2331	151.4011	87.0851	9.2893	138.2387		7.6402	2.8899	3.5687	10754.39	4844.618	1309.702	1610.019	3755.052	833	10290.75	284.6102	0.9161	113815.4	140290.7	10575.36	129715.4	136886.5	3.4821	0
11.8051	181.658	85.2922	8.2229	149.5714		8.5317	3.1722	3.9851	11527.37	4651.463	1290.518	2203.402	4146.983	833	11391.23	285.3853	0.9649	10916.9	138493.5	11676.62	126816.9	134734.8	3.877	0
12.6647	107.177	87.8731	6.7364	155.0292		4.9689	2.3069	2.7092	12578.56	5423.413	1367.19	1854.547	4605.357	926.055	12664.73	282.4062	1	116842	145689.1	12947.14	132742	141521.5	2.6317	0
11.2754	159.1983	86.6776	6.8797	156.069		5.4007	2.9486	3.6554	12453.97	5329.854	1357.898	2376.998	4100.138	887.0843	11275.38	284.8666	1	112732.5	140192.6	11560.05	126832.5	136471.4	3.5583	0
12.2294	108.7118	87.0676	8.1621	149.5651		5.6359	2.343	2.7623	11882.28	5278.894	1352.836	1663.451	4913.239	865.8592	11866.99	282.808	0.9704	117076.4	145126	12149.6	132976.4	141215.1	2.6879	0
12.0546	115.0911	86.52	8.2389	156.9711		5.4942	2.4209	2.7227	12287.92	5309.601	1355.886	1958.296	4383.491	878.6487	12054.6	282.8409	1	116348.2	144585.6	12337.44	132248.2	140614.2	2.7981	0
12.8214	79.423	86.6128	9.6292	134.6634		5.75	3.203	2.2539	10366.87	5254.161	1350.379	1480.489	3024.285	855.5579	8124.23	875.7697	0.6336	122342.9	147242.9	9000	138242.9	139720.4	2.2282	1
11.7377	119.6928	87.8687	8.1869	145.8995		6.2774	2.505	3.0012	11625.54	5139.901	1339.031	1961.951	3949.654	833	10827.67	283.2577	0.9225	116481	143491.9	11110.93	132381	143915.3	2.9264	0
12.1005	73.9317	87.9035	9.6179	148.7652		4.7433	2.033	2.1051	11651.65	5472.282	1372.044	2297.455	3161.643	946.4054	8538.779	545.6137	0.6996	122512.7	147497.1	9084.392	138412.7	144572.8	2.0718	0
10.6106	155.9386	87.7097	9.0772	147.8354		6.385	2.9311	3.6295	11661.17	5116.59	1336.716	2072.455	3858.409	833	10610.63	284.7031	1	113290.3	140085.7	10895.33	129190.3	136578.5	3.5387	0
10.5428	88.7137	87.8334	9.5567	158.5409		5.0226	2.1421	2.42	12410.05	5411.777	1366.034	2848.597	3460.437	921.205	9474.381	342.7301	0.9987	120391.9	146109	9817.111	136291.9	142948.9	2.3697	0
11.7973	126.7042	86.9496	8.3062	137.6106		6.9571	2.6644	3.1713	10838.32	4992.63	1324.403	1819.501	3466.782	833	9432.984	369.6505	0.8966	116400.8	142103.4	9802.589	132300.8	138948	3.1039	0
12.0688	98.0405	88.6832	7.05	155.7056		4.8733	2.197	2.5469	12710.75	5444.122	1369.247	2172.031	4388.671	934.677	12068.85	282.1117	1	118085.2	146336.2	12350.96	133985.2	142360.4	2.4777	0
11.4058	84.7411	88.2885	8.0764	147.7494		5.1476	2.1563	2.3429	11851.29	5384.679	1363.343	2503.652	3287.7	909.9187	8935.631	472.1124	0.7834	121045.9	146353.7	9407.755	136949.5	143325.3	2.3007	0
11.6212	128.8717	87.5632	8.9677	148.3713		6.4199	2.6007	3.1423	11661.32	5109.026	1335.964	1772.351	4208.969	833	11573.8	283.484	0.9959	115255.3	143012.6	11857.28	131155.3	139195.7	3.0584	0
11.7524	113.7938	87.1587	8.3438	142.4744		6.4419	2.519	2.9329	11229.1	5104.262	1335.491	2131.804	3422.542	833	9307.701	400.5476	0.792	117722.8	143331	9708.249	133622.8	140205.9	2.8731	0
12.9481	197.621	86.5501	8.4418	153.0759		7.306	3.2751	4.1371	11956.5	4917.033	1316.895	1779.178	4708.392	833	12948.09	285.473	1	109138	138271.5	12333.57	125038	134011.6	4.0097	0
11.1832	163.7841	88.6698	7.2836	142.1021		6.3334	2.9937	3.7219	11565.15	5127.737	1337.825	1725.652	4138.917	833	11382.02	284.7999	1	112313.1	139879.9	11686.82	128213.1	136124.4	3.622	0
12.2563	158.2731	87.6892	8.5627	154.1175		6.5475	2.9131	3.6032	12194.77	5081.373	1333.218	2088.326	4456.85	833	12256.34	284.4123	1	112385.9	140826.7	12540.75	128285.9	136789.8	3.4999	0
11.6535	137.1945	86.9133	7.0022	158.645		4.7016	2.6964	3.2835	12677.5	5481.314	1372.941	2233.437	4237.644	950.1671	11653.52	283.7876	1	114457.5	142294.8	11937.31	130357.5	138452.2	3.1949	0
11.6597	128.7521	87.1903	9.1042	143.256		6.9294	2.6618	3.2049	1186.301	4998.626	1324.999	2106.09	3521.593	833	9597.351	320.1126	0.8231	116158.1	141975.5	9917.463	132058.1	138783.1	3.1341	0
11.214	105.4549	86.9449	7.0343	148.6985		5.6451	2.3284	2.7407	11882.58	5276.892	1352.637	2175.158	3810.864	865.0255	10452.24	282.7113	0.9321	118104.5	144739.5	10734.96	134004.5	141283.9	2.6753	0
9.8764	134.0921	87.2166	8.3337	144.2281		6.7317	2.7025	3.2923	11377.14	5041.46	1329.253	2185.713	3585.71	833	9860.474	284.3073	0.9984	115555.9	141600.4	10144.51	131455.9	138334.9	3.2164	0
11.9538	187.5432	87.0459	7.7124	152.5663		7.4222	3.2121	4.044	11505.49	4891.115	1314.394	2317.131	4346.83	833	11953.79	285.4278	1	110252.6	138391.8	12239.21	126152.6	134452	3.2819	0
12.2458	134.1975	88.8266	9.6273	145.2589		7.0333	2.6944	3.2804	11504.49	4976.711	1322.763	2209.768	3760.843	833	10259.18	283.9591	0.8378	115366.4	141807.6	10543.14	131264.5	138413.8	3.2099	0
10.7099	164.0722	88.1345	8.6941	146.6324		6.0268	3.0146	3.7527	11															

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	9 b Mandate, Tax Credit and Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn demand	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of Mandate Binding
11.5002	151.778	86.9361	9.3143	148.8166		6.3258	2.8633	3.5296	11551.42	5129.417	1337.989	1667.126	4181.885		833	11500.19	284.3549	1	113254.4	140939	11784.54	129154.4	137145.5	3.4346	0
10.2839	134.4137	87.5772	8.0649	143.447		6.4334	2.6964	3.2833	11405.81	5106.095	1335.673	1989.458	3739.583		833	10283.86	283.9625	1	115333.2	141801.1	10567.82	131233.2	138399.3	3.2046	0
11.7726	132.4861	87.372	6.7267	146.7109		6.6235	2.6426	3.2041	11831.55	5106.899	1331.581	1975.646	4224.423		833	11613.2	283.6164	0.9865	114903.1	142699.9	11896.82	130803.1	138870.3	3.1181	0
11.7618	118.7827	85.6233	9.7648	154.8071		6.241	2.4938	2.9846	11743.27	5147.762	1336.814	2073.497	3947.174		833	10819.4	283.2213	0.9199	116574.2	143576.8	11102.62	132474.2	140002.9	3.1043	0
11.2267	162.1327	88.1384	7.8862	152.1478		5.2825	2.9807	3.7027	12210.2	5355.465	1360.441	2112.118	4082.421	897.7513	11226.66	284.7794	1	112513.1	139924.6	11511.44	128413.1	146219.1	2.9606	0	
9.7946	140.1419	86.8482	8.9378	147.8997		5.1222	2.775	3.3993	11522.92	5390.196	1363.891	1892.936	3561.682	912.2166	9794.627	284.2909	1	115029.8	141008.7	10078.92	130929.8	137764.3	3.3211	0	
12.2382	135.9312	88.8907	10.3391	138.825		7.4057	2.7831	3.3359	10904.92	4895.422	1314.748	1997.724	3462.027		833	9399.081	383.5631	0.768	115535.9	141218.5	9782.644	131435.9	138069.5	3.2651	0
10.8661	94.3774	86.2192	11.1296	138.9611		8.0848	2.9536	2.6311	10434.53	4748.304	1300.136	2423.841	2727.608		833	7353.511	1646.489	0.6767	121456.5	146356.5	9000	137356.5	145173.8	2.6221	1
12.2704	172.2469	87.8364	8.336	135.2937		8.292	3.0801	3.8493	10755.91	4703.407	1295.677	1373.324	4148.497		833	11375.43	285.0849	0.9271	111644.3	139204.8	11660.52	127544.3	141573.3	3.7455	0
11.7762	104.5912	88.4779	9.6729	133.4245		6.4531	2.5105	2.7668	10514.52	5101.834	1335.25	1682.682	3159.755		833	8551.808	603.3524	0.7262	118928.4	143983.6	9155.161	134828.4	141036.5	2.7206	0
11.7246	97.332	85.7471	8.6549	152.4533		5.6091	2.2872	2.6043	11752.97	5284.686	1353.411	2411.947	3432.659	868.2716	9338.112	382.304	0.7965	119466.5	145086.9	9720.416	135366.5	141957.9	2.5516	0	
11.9516	160.822	87.6684	8.0889	145.8722		6.6392	2.9478	3.6543	11608.44	5061.517	1331.245	1634.659	4346.019		833	11951.56	284.5679	1	112309.6	140445.7	12236.12	128209.6	136509.9	3.5518	0
12.7409	100.2805	88.6708	8.8433	154.4285		5.3885	2.2425	2.614	12327.64	5332.49	1358.159	2224.328	4122.481	888.1822	11278.38	282.34	0.8852	118242.3	145703	11560.72	134142.3	141981.6	2.5472	0	
11.9138	119.2892	89.8103	8.2491	142.9832		5.396	2.4764	2.9591	11661.88	5300.875	1327.991	1351.21	4332.286	887.5096	11913.79	283.0376	1	116005.7	144102.6	12196.83	131905.7	140176.4	2.8785	0	
12.0927	135.7928	87.6404	5.5161	142.9831		6.881	2.6859	3.268	11743.62	5509.118	1356.041	2014.095	4159.37		833	11414.65	283.7835	0.9439	114692.4	142290.8	11698.43	130592.4	138525.1	3.1815	0
11.4128	113.2147	86.8176	8.8677	143.3741		6.415	2.5156	2.9223	11176.01	5110.08	1336.069	2087.271	3407.585		833	9280.479	408.0515	0.8132	117790.5	143379	9688.494	133695.0	140260.3	2.8631	0
11.3699	125.7115	86.8296	8.8685	142.6853		6.4835	2.5784	3.1094	11123.9	5095.236	1334.595	1499.489	3959.579		833	10872.44	283.4959	0.9562	115877.8	142934.7	11155.93	131778.7	139343.6	3.0313	0
12.1225	126.6735	87.2426	7.403	151.6193		4.853	2.5619	3.0851	12105.23	5448.515	1369.683	1540.349	4408.178	936.5063	1222.49	283.291	1	115025.6	143511.4	12405.78	131105.6	139518	2.9993	0	
11.4232	92.4169	87.1448	8.623	143.6757		5.5997	2.2814	2.5096	11281.67	5286.736	1353.615	2100.797	3269.394	869.1257	8882.179	496.1651	0.7776	120172.6	145451	9378.344	136072.6	142431.2	2.4646	0	
9.9432	113.2994	86.6984	8.3587	144.6438		6.1447	2.4811	2.9196	11331.35	5168.655	1341.887	2124.68	3461.127		833	9503.568	344.1512	0.9558	117714.2	143461.9	9847.719	133614.2	140291.9	2.8573	0
11.5209	159.6239	86.3753	6.5719	141.9711		6.2123	2.9466	3.6525	11329.78	5154.007	1340.432	1410.939	4189.401		833	11520.85	284.8253	1	112592.1	140297.6	11805.48	128492.1	136497.9	3.6535	0
11.3124	106.3216	88.5804	7.9816	157.5609		4.9625	2.3228	2.7325	12699.23	5569.098	1381.66	2246.136	4113.602	986.7294	11312.41	282.6012	1	117592.3	145087.4	11595.01	133492.3	141354.9	2.8622	0	
12.4289	122.6909	85.8205	7.9664	149.749		6.2429	2.5159	3.0173	11658.57	5147.367	1338.772	1559.48	4376.954		833	10204.16	283.1532	0.9674	115627.2	143834.5	12307.31	131527.2	139872.8	2.9342	0
10.8272	107.5223	87.017	9.7495	140.7012		4.2927	2.4927	2.8179	10871.64	5129.732	1338.021	1891	3277.888		833	8934.397	501.0798	0.8252	118492.4	143827.9	9435.477	134392.4	140790.6	2.7658	0
11.6515	86.4925	87.4372	8.8498	140.0361		5.6376	2.2829	2.3277	11285.16	5278.515	1352.798	2299.356	3086.785	865.7014	8348.079	351.9206	0.7165	121096.4	145996.4	9000	136996.4	140312.2	2.3579	1	
10.9498	132.6462	87.9112	8.0162	136.3289		7.0471	2.7086	3.2942	10891.99	4973.12	1322.466	1850.556	3510.853		833	9600.327	319.8407	0.8768	115783.8	141608.5	9920.168	131688.3	138415.2	3.2016	0
11.178	103.0262	88.1989	6.5121	141.7999		5.6114	2.306	2.7076	11583.19	5284.206	1353.364	2049.18	3626.364	868.0717	9922.505	282.6924	0.8877	118622.2	144727.4	10205.2	134522.2	141442.3	2.6462	0	
11.117	131.1477	88.2463	7.2515	158.7669		3.206	2.6383	3.1977	12859.28	5505.372	1405.127	2119.107	4042.54	1085.138	11116.99	283.6641	1	115254.4	142555.1	11400.65	131554.4	138885.2	3.1154	0	
12.7635	153.9915	88.006	8.3622	144.183		7.54	2.8736	3.5448	11443.27	4866.326	1311.859	1685.276	4384.812		833	10232.66	284.315	0.9427	112836.1	141053	12316.97	128736.1	137088.2	3.4451	0
11.7131	166.8885	86.5189	8.4965	146.6336		7.5105	3.0167	3.7559	11440.71	4872.723	1312.494	1761.164	4259.325		833	11713.15	284.8271	1	111924.3	139822.2	11997.97	127824.3	135960.1	3.6521	0
11.0683	141.8027	86.5778	8.7924	146.0816		7.1131	2.7705	3.3927	11363.02	4958.833	1321.047	1928.851	3919.291		833	10769.24	284.1469	0.973	114443.8	141397.2	11053.38	130343.8	137839.1	3.3073	0
11.5696	102.2343	86.3904	6.5829	155.6192		4.1892	2.2633	2.6447	12418.62	5592.348	1383.969	1386.785	4207.109	996.4129	11569.55	282.3786	1	117891.2	145643.1	11851.93	133791.2	141828	2.5754	0	
11.257	130.4927	87.0781	10.2526	148.5939		6.7067	2.6398	3.2	11415.8	5064.882	1329.792	1902.487	3901.638		833	10711.08	283.7198	0.9515	115502.2	142397	10994.8	131402.2	138857.7	3.1204	0
11.4923	92.0787	87.7963	6.0318	148.636		5.4947	2.2536	2.4996	12153.14	5309.482	1355.874	2881.65	3325.538	878.5994	9040.528	485.0941	0.7867	120156.8	145552.5	9495.622	136056.8	142495.8	2.4529	0	
12.5317	142.3721	87.138	7.5158	148.3221		6.5931	2.734	3.339	11809.75	5071.495	1332.236	1614.044	4556.972		833	12531.67	283.7963	1	113604.2	142319.6	12815.47	129504.2	138194.3	3.2422	0
10.846	115.0327	87.0382	8.2602	154.7586		5.4376	2.4457	2.9137	12191.57	5321.86	1357.104	2282.844	3944.009	883.7547	10846.03	283.0585	1	116933.2	143962.3	11129.09	132633.3	140379.8	2.8411	0	
10.1517	127.8993	88.8347	8.3744	154.8588		5.003	2.6213	3.1726	12459.98	5416.011	1365.455	2261.019	3691.527	922.9688	10151.7	283.7273	1	116005	142340.5	10435.43	131905	139981.3	3.0978	0	
11.524	132.9242	88.2921	10.2631	144.799		6.8278	2.667	3.2401	11295.62	5020.633	1327.185	1781.217	3931.588		833	10785.39	283.8009	0.9359	115242	142211.2	11069.19	131142	138648	3.1589	0
12.4004	114.6175	86.91	9.1767	139.4217		6.2484	2.4637	3.2401	10837.71	5146.177	1339.654	1534.823	3582.059		833	9736.892	283.2453	0.7852	117506	143426.1	10020.14	133406	140200.6	2.874	0
11.7681	149.548	88.3802	7.1484	137.0265		7.638	2.872	3.5423	11130.92	4845.11	1309.751	2012.233	3728.822		833	10189.72	284.564	0.8659	114019.8	140394	10474.28	129919.8	137022.4	3.4572	0
11.9383	179.0489	87.7016	7.866	144.1084		7.0464	3.1314	3.9251	11504.97	4973.289	1322.482	1633.013	4341.188		833	11938.27	285.1678	1	110889.3	139012.7	12223.44	126789.3			

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	9 b Mandate, Tax Credit and Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of Mandate Binding
12.9042	90.311	87.6488	10.0158	152.7695		5.313	2.1933	2.4577	11859.95	5348.843	1359.784	2423.976	3430.358	894.993	9279.119	392.718	0.7191	120276.5	145848.3	9671.837	136176.5	142735.5	2.409	0
11.236	147.5524	87.5105	9.6535	145.9677		6.9544	2.8236	3.4711	11364.6	4993.204	1324.46	1726.108	4085.83	833	11236.03	284.2603	0	113731.9	141152.2	11520.29	129631.9	137443.8	3.3799	0
11.7015	130.4773	87.5389	10.0753	148.9195		6.748	2.6382	3.1976	11535.85	5037.942	1328.904	2003.517	3930.486	833	10774.16	283.7065	0.9208	115474.6	142432.4	11057.87	131374.6	138872.9	3.1177	0
10.5873	148.0773	87.4458	9.5442	154.7663		5.118	2.8457	3.5035	12056.54	5391.101	1363.981	2136.95	3849.916	912.5936	10587.27	284.4215	1	113972.7	140744.4	10871.69	129872.7	137244.8	3.4164	0
11.0859	111.0996	86.6203	7.333	152.8937		5.1646	2.39	2.8316	12122.54	5381.012	1362.979	2036.913	4031.241	908.3916	11085.91	282.8474	1	117213.6	144482.4	11368.76	131311.6	140222.7	2.7599	0
11.4987	79.8673	87.7399	8.9851	153.2547		4.4832	1.9794	2.2218	12069.54	5528.641	1377.642	2238.514	3552.862	969.8791	9695.162	287.0181	0.8432	121349.5	147231.7	9982.18	137249.5	144018.4	2.1735	0
10.7334	129.5002	85.963	7.5035	155.7991		4.9725	2.6274	3.1817	12223.93	5422.631	1367.112	2203.39	3903.067	925.7256	10733.43	283.6757	1	115584.8	142502	11017.11	131484.8	138955.5	3.1025	0
11.1047	104.0386	87.0872	9.2048	146.2051		5.6793	2.323	2.7327	11386.8	5269.49	1351.902	1933.765	3567.702	861.9427	9756.852	282.7673	0.8786	118595.9	144535.5	10039.62	134495.9	141303.8	2.6716	0
10.6047	137.125	85.9575	7.3424	157.1458		4.5793	2.7206	3.3191	12354.03	5507.815	1375.573	2251.166	3856.271	961.205	10604.75	284.0022	1	114938.9	141727.6	10888.75	130838.9	138222.5	3.237	0
10.3215	114.8305	86.8833	8.5176	156.6497		5.0618	2.4542	2.9261	12275.96	5403.266	1365.189	2434.563	3753.283	917.6604	10321.53	283.1464	1	117204.6	143709.3	10604.68	133104.6	140295.6	2.8566	0
11.0445	151.0038	87.0301	9.4718	143.0535		6.1178	2.8665	3.5342	11094.98	5174.467	1342.464	1326.878	4016.168	833	11044.47	284.4278	1	113519.7	140748.6	11328.9	129419.7	137101.9	3.4426	0
12.5486	168.6168	87.8793	5.6242	152.5561		5.7756	3.0115	3.7484	12548.52	5248.623	1349.829	2131.706	4563.109	853.2517	12548.55	284.6883	1	111435.7	140168.9	12833.24	127335.7	136037.9	3.6379	0
11.8554	96.5858	87.8927	7.7625	144.7361		5.3483	2.2193	2.5798	11597.73	5341.211	1359.026	2009.172	3594.512	891.8143	9798.247	282.4125	0.8265	119382.4	145363.1	10080.66	135282.4	142118.1	2.5222	0
12.0489	150.096	87.3526	9.2003	152.089		6.4225	2.8311	3.4822	11886.1	5108.467	1335.909	1825.304	4381.42	833	12048.91	284.1748	1	113156.1	141389.2	12333.09	129056.1	137419.2	3.3844	0
9.6152	174.2715	86.9045	7.7064	140.9131		5.5294	3.1656	3.9489	11160.05	5301.956	1355.127	1729.054	3496.446	875.4645	9615.227	320.4005	1	112197.3	138032.9	9935.628	128097.3	134834.6	3.8587	0
12.3318	138.7032	85.1143	6.6048	143.9627		7.2069	2.7442	3.3539	11302.44	4938.509	1319.028	2004.258	3805.641	833	10384.24	284.1097	0.8421	114895.2	141463.5	10668.35	130795.2	138029.4	3.2724	0
12.5517	194.8247	88.3024	7.7832	147.6293		6.7583	3.2617	4.1174	11887	5035.698	1328.681	1723.38	4564.237	833	12551.65	285.4938	1	109490.8	138227.9	12837.15	125390.8	134095.7	3.9944	0
12.7877	111.101	87.2978	5.5461	140.6097		5.8521	2.3794	2.816	11495.08	5232.05	1348.183	1431.014	4235.48	846.3489	11601.88	282.7557	0.9073	116963.6	144748.3	11884.63	132863.6	140922.6	2.7415	0
12.0115	122.7836	88.3232	9.3163	145.6497		6.3917	2.5377	3.0494	11507.33	5115.14	1336.571	1776.371	4044.247	833	10873.33	283.3555	0.9231	116058.6	143329.3	11370.66	131958.6	139669.1	2.9716	0
11.766	101.8646	87.4629	6.61	155.9222		3.6961	2.2545	2.6318	12606.76	5699.183	1394.58	1791.54	4278.55	1040.91	11766.01	282.3297	1	117832.5	145780.9	12048.34	133732.5	141902.5	2.5617	0
10.7364	99.1563	87.3665	8.483	153.8871		5.1065	2.2375	2.6066	12139.15	5393.599	1364.229	2162.111	3903.579	913.6339	10734.83	282.3787	0.9999	118633.6	145550.8	11017.21	134533.3	142004.3	2.5431	0
11.6566	123.8795	87.7429	5.827	153.846		4.6562	2.5575	3.0786	11347.28	5101.163	1335.183	1735.668	3940.271	833	10804.37	283.4347	0.9269	116085.8	143073.6	11087.8	131985.8	139504.5	3.0018	0
11.4013	174.9657	86.0685	9.7774	150.7504		7.1888	3.1065	3.8882	11500.91	4849.259	1310.163	1960.552	4145.938	833	11401.33	285.1677	1	111422.5	139009	11686.5	127322.5	135247.2	3.783	0
11.8022	92.0741	86.5069	10.6786	153.7708		5.0446	2.1445	2.4664	11660.17	5046.998	1365.56	1763.638	3802.764	919.2146	10401.33	282.1015	0.8813	119577.9	146161.3	10683.43	135477.9	142722.3	2.4113	0
11.6589	114.7186	86.6228	7.232	147.8412		5.9063	2.4291	2.8893	11737.24	5220.292	1347.016	1764.32	4162.164	841.4517	11440.05	282.9368	0.9812	116679.8	144302.7	11722.99	132579.8	140529.1	2.8137	0
10.6049	107.16	87.52	8.8742	140.8195		5.2616	2.3616	2.7896	11051.27	5252.833	1350.248	1571.208	3619.979	855.0048	9930.824	282.879	0.9364	118181	144294.8	10213.7	134081	141007	2.7261	0
10.613	188.6724	85.9843	8.621	143.0119		7.9417	3.2616	4.1169	11063.88	4779.298	1303.215	1887.093	3859.277	833	10613.01	285.804	1	110709.1	137508	10898.82	126609.1	133999.6	4.0119	0
12.3882	143.2064	88.3162	8.0294	144.0526		6.5327	2.7468	3.3579	11057.64	5084.574	1333.536	1439.738	4504.792	833	12388.18	283.8564	1	113596	142168	12672.04	129496	138088.9	3.2165	0
10.824	108.9842	87.3816	10.1545	147.0594		5.4692	2.3678	2.7988	11356.97	5315.003	1356.422	1466.64	3936.007	880.895	10824.02	282.8023	1	117556.6	144563.4	11106.82	133456.6	140988.1	2.7295	0
11.233	123.2615	88.4763	7.9375	149.5269		5.4252	2.5404	3.0534	12042.72	5324.534	1357.369	1989.223	4084.724	884.8684	11233	283.3269	1	115944.3	143360.6	11516.32	131844.3	139653.5	2.9744	0
11.5105	125.5574	86.2574	8.8794	159.0214		6.0505	2.5622	3.0856	12304.76	5189.051	1343.913	2351.176	4185.618	833	11510.45	283.3656	1	115595.9	143289.7	11793.82	131495.9	139493.2	3.0038	0
10.7864	118.6086	88.312	7.4563	150.1219		4.922	2.4923	2.9824	12381.31	5433.56	1368.198	2324.964	3922.314	930.2779	10786.37	283.2203	1	116607	143576.6	11069.59	132507	140013.3	2.9084	0
10.839	151.3777	86.9449	5.6592	149.9131		4.2517	2.8758	3.5479	12185.79	5578.807	1382.624	1890.114	3941.468	990.7732	10839.05	284.487	1	113577.7	140601.2	11123.54	129477.7	137020.6	3.4575	0
10.5376	115.206	86.4747	6.6604	158.9528		4.2164	2.4544	2.9265	12886.67	5686.455	1383.384	2489.019	3831.857	953.9586	10357.61	283.1227	1	117063.5	143784.2	10820.73	132963.5	140301	2.8556	0
12.0092	123.9796	86.8608	8.7652	158.2524		5.2408	2.5319	3.0409	12358.82	5364.483	1361.337	1962.514	4366.983	901.5071	12009.2	283.2071	1	115511.9	143704.3	12292.41	131411.9	139747.4	2.9572	0
12.0214	151.9027	87.9641	7.7683	150.5529		7.1557	2.8514	3.5121	12073.7	4949.603	1320.13	2197.79	4371.181	833	12020.74	284.2446	0.9999	113016.1	141221	12304.99	128916.1	137260.1	3.4136	0
10.2744	106.2705	88.125	8.4635	158.6504		6.3429	2.762	3.2638	11633.33	5452.184	1370.048	2739.901	3736.16	938.0348	10274.4	282.7787	1	118106.2	144563.4	10557.22	134006.2	141165	2.6971	0
11.1505	117.6115	87.429	9.1514	149.2031		6.1953	2.487	2.9746	11679.27	5157.685	1340.797	2138.068	3807.715	833	10446.04	283.2421	0.9368	116867.2	143496.5	10729.29	132767.2	140402.7	2.903	0
11.9635	193.3368	88.19	6.8091	156.831		3.2656	4.1229	4.7263	11673.35	5597.978	1382.741	2057.003	4350.368	991.2606	11963.51	285.6005	1	109830.4	137979.6	12249.11	125730.4	14036.6	4.0015	0
12.0794	84.5115	88.2706	8.751	153.2205		4.6583	2.0331	2.3051	12184.05	5490.693	1373.873	2122.339	3841.069	954.0737	10498.51	281.7202	0.8691	120387.3	147067.5	10780.23	136287.3	143597.4	2.2507	0
11.5252	84.9312	87.2452	8.656	148.9643		4.8836	2.0881	2.3381	11706.99	5441.884	1369.025	2090.002	3470.333	933.7447	9455.988	284.4988	0.8205	120837.2	146538.7	9801.487	136737.2	143383.6	2.29	0
11.7046	151.9354	86.0286	9.209	152.5531																				

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	9 b Mandate, Tax Credit and Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of Mandate Binding
11.7807	122.9584	88.5726	8.727	154.3447		6.4125	2.5442	3.059	12323.75	5110.63	1336.124	2669.248	3972.749	833	10892.16	283.3801	0.9246	116133.4	143208.9	11175.54	132033.4	139611.5	2.9821	0
11.0971	106.1188	87.9558	10.0768	156.2073		5.4338	2.3246	2.7352	12165.26	5322.674	1357.184	2167.613	4031.695	884.0937	11087.04	282.6311	0.9991	117723.5	144993.5	11369.67	133623.8	141333.6	2.6661	0
10.3524	65.1213	86.6631	7.4206	154.353		3.8756	1.8142	1.8874	12231.32	5460.279	1390.716	2423.037	3330.583	1024.706	9109.07	406.2539	0.8799	123414.5	148829.9	9515.324	139314.5	145766.9	1.8526	0
12.3528	88.9789	88.0586	9.1516	153.6542		4.8948	2.0972	2.3996	11244.38	5439.456	1368.784	2112.57	3868.839	932.7333	10565.49	281.9279	0.8553	119841.8	146589.3	10847.41	135741.8	143097.5	2.3425	0
11.1615	88.2366	86.0459	8.8731	150.8707		5.2788	2.1969	2.4174	11624.12	5356.269	1360.521	2309.243	3316.999	898.0588	9031.321	452.978	0.8091	120602.1	145986.4	9484.299	136502.1	142933.4	2.3726	0
10.311	96.6748	86.4334	10.1984	158.7845		4.2321	2.211	2.5676	12104.93	5583.035	1383.044	1994.88	3749.438	992.5343	10310.96	282.3332	1	119115.1	145608.4	10593.29	135015.1	142198.4	2.5074	0
10.7091	131.2653	88.4341	9.7657	153.0368		5.7947	2.6491	3.2137	12039.16	5244.482	1349.418	2297.531	3894.205	851.5267	10709.07	283.7509	1	115430.9	142323.8	10992.82	131330.9	138785.2	3.1338	0
12.0942	93.7562	87.929	9.8138	133.2523		7.0951	2.6756	2.585	10409.03	4962.719	1321.433	1976.806	2913.07	833	7834.825	1165.175	0.6478	120911.3	145811.3	9000	136811.3	141903.4	2.5616	1
11.4701	164.1615	86.5884	7.9108	156.1104		5.0748	2.9953	3.7242	12282.4	5400.453	1364.91	2027.611	4170.94	916.4884	11470.09	284.7922	1	112245.3	139900.1	11754.88	128145.3	136116.2	3.6235	0
11.2114	85.8217	86.6388	5.3059	144.0447		5.2118	2.176	2.3669	11715.58	5370.774	1361.962	2399.411	3277.305	904.1271	8914.686	478.7732	0.7951	120925.9	146219.3	9393.459	136825.9	143195.6	2.3245	0
10.82	126.049	87.22	7.9837	153.3763		4.4324	2.5837	3.1172	12152.98	5539.645	1378.735	1923.605	3934.529	974.4621	10819.96	283.5199	1	115871.1	142874.5	11103.48	131771	139300.3	3.0392	0
11.6315	149.1719	86.7126	7.1745	152.081		6.1704	2.8316	3.4828	12096.25	5163.078	1341.333	2127.207	4229.63	833	11631.49	284.2328	1	113418.4	141234.1	11915.72	129318.4	137398.4	3.3882	0
12.4956	99.2342	86.9891	9.5218	138.7087		6.2882	2.4565	2.661	10745.39	5137.548	1338.797	1920.933	3113.112	833	8389.148	637.6774	0.6714	119570.1	144496.9	9026.826	135470.1	141591.2	2.6189	0
11.897	118.1963	87.7855	8.7601	142.5758		6.317	2.4987	2.9918	11267.11	5131.327	1338.179	1811.504	3751.095	833	10247.77	283.3042	0.8614	116903.3	143334.4	10531.07	132803.3	139944.4	2.921	0
11.6552	116.6769	86.128	8.7236	146.3121		6.263	2.4837	2.9696	11325.21	5143.013	1339.34	1930.554	3677.3	833	10046.54	283.277	0.8612	117150.5	143380.3	10329.81	133050.5	140055.1	2.9007	0
11.1037	121.3819	87.454	8.7618	144.6797		6.2286	2.5242	3.0294	11385.17	5150.476	1340.081	1688.504	3971.108	833	10915.6	283.3109	0.9831	116274.9	143373.8	11198.91	132174.9	139768.8	2.9533	0
11.1157	131.8691	88.4486	7.621	151.5232		5.7162	2.6469	3.2104	12247.25	5261.499	1351.108	2331.975	4042.057	858.6145	11115.66	283.8926	1	115828.2	142487.6	11399.35	131088.2	138811.8	2.1277	0
11.6642	126.4079	86.6262	6.8002	148.5199		6.3241	2.5703	3.0976	11855.76	5129.78	1338.026	1931.826	4221.127	833	11607	283.3805	0.9951	115470.6	143261	11890.38	131370.6	139433.5	3.0148	0
10.9271	122.575	86.2489	6.2126	153.1884		4.6501	2.5387	3.0509	12260.63	5492.468	1374.409	2063.795	3973.505	954.8127	10927.14	283.3577	1	116153.9	143264.4	11210.5	132053.9	139655.8	2.974	0
11.258	81.2067	87.0246	6.0168	150.0132		4.6788	2.0336	2.256	12168.25	5466.258	1373.432	2494.071	3460.265	952.2265	9439.664	347.5048	0.8385	121283.3	146970.4	9787.169	137183.3	143820	2.2099	0
11.4125	119.9362	88.2525	9.5991	147.2464		6.3189	2.5155	3.0166	11581.44	5130.908	1338.138	2052.018	3825.377	833	10484.91	283.3288	0.9187	116619.2	143287.5	10768.25	132519.2	139821.2	2.9437	0
12.4403	113.3283	87.8223	10.0511	135.9187		7.3307	2.7422	2.9521	10570.56	4911.672	1316.362	2065.265	3042.26	833	8189.421	101.5793	0.6583	118210.6	143110.6	9000	134110.6	140008.2	2.903	1
11.4906	105.4122	87.8001	7.5053	156.4209		3.6389	2.3072	2.7095	12559.78	5711.57	1395.811	1825.926	4178.403	1046.069	11490.61	282.531	1	117598.9	145272.1	11773.14	133498.9	141482.3	2.6388	0
10.7868	129.3087	87.5911	6.8086	145.5418		6.5178	2.6253	3.1785	11495.26	5087.813	1333.857	1937.603	3900.985	833	10726.51	283.6995	0.9944	115606	142516.2	11010.18	131506	138972	3.0995	0
10.8705	107.8394	87.3571	7.3108	150.7558		5.6089	2.3537	2.778	12093.45	5284.745	1353.417	2236.865	3918.124	868.2961	10772.65	282.713	0.991	117699.5	144654.9	11055.41	133599.9	141096.2	2.7097	0
12.5602	82.4264	88.255	6.9691	147.55		12.5602	2.151	2.2956	11993.73	5339.346	1362.813	2717.013	3224.858	907.6976	8705.508	524.2132	0.6931	121400.5	146535.1	9229.721	137305.4	143564	2.2569	0
11.3337	122.6549	87.8414	7.4686	152.3056		4.5267	2.5307	3.0391	12241.23	5519.222	1376.706	1855.989	4121.359	965.9558	11333.74	283.2831	1	115955.2	143472.2	11617.02	131855.2	139732.7	2.9599	0
12.2286	95.5515	86.3122	6.9397	154.7547		5.1113	2.1757	2.5155	12283.27	5392.557	1364.125	2064.294	4147.089	913.1999	11373.28	282.1107	0.9301	118702.6	146258	11655.39	134602.6	142506.1	2.451	0
10.4173	137.8202	86.5819	8.3583	151.135		6.0918	2.7332	3.3376	11822.32	5190.115	1343.025	2276.071	3788.111	833	10417.31	284.0684	1	114960.4	141581.8	10701.38	130860.4	138117	3.2564	0
12.1362	136.0857	87.0311	8.8705	148.2305		7.0504	2.7086	3.3013	11855.78	4972.417	1322.396	2178.46	3877.507	833	10600.88	283.9626	0.8735	115035.4	141820.3	10884.84	130935.4	138316.4	3.2198	0
11.2876	149.3855	87.2779	7.6612	155.8944		5.088	2.8426	3.499	12411.79	5397.605	1364.627	2227.674	4104.587	915.3024	11287.62	284.3157	1	113551.4	141023.4	11571.93	129451.4	137298.4	3.4066	0
11.7127	112.5685	86.3133	7.8209	150.8406		6.0438	2.4257	2.8842	11839.84	5190.503	1344.057	2310.482	3759.798	833	10281.71	283.0557	0.8778	117456.2	143917.4	10564.77	133352.6	140516.6	2.816	0
12.3898	113.645	86.7746	10.5959	142.5255		6.9065	2.6309	2.9439	10857.41	5003.583	1325.491	2107.867	3185.465	833	8599.857	604.4338	0.6941	117953.2	143057.5	9204.291	133853.2	140094.6	2.8935	0
10.913	173.3859	87.4612	9.8798	141.8772		6.1147	3.1042	3.8849	11007.083	4843.355	1309.597	1650.731	3968.364	833	10913	285.2343	1	117477.9	138846.1	11198.24	127647.9	135241.4	3.784	0
11.2659	82.4407	87.9013	7.8363	141.3573		5.3882	2.2172	2.3043	11317.76	5332.553	1358.166	2252.347	3084.488	888.2084	8358.018	641.9819	0.7419	121584.2	146484.2	9000	137484.2	143492.1	2.2701	1
11.1045	122.7427	86.6829	6.0238	144.1598		6.3538	2.5457	3.0611	11339.49	5123.341	1337.386	1746.283	3897.476	833	10705.48	283.4072	0.9641	116241.8	143130.7	10988.89	132141.8	139593.4	2.9855	0
10.892	113.5263	87.8103	8.9669	155.1773		4.734	2.4254	2.8638	12234.71	5474.304	1372.245	2078.181	3960.734	947.2478	10892.02	282.9861	1	117062.1	144137.1	11175	132962.1	140539.9	2.8118	0
11.7906	87.0395	85.3318	7.6258	146.9461		5.0301	2.1257	2.3849	11418.16	5410.141	1365.872	1860.259	3459.803	920.5237	9413.2	357.082	0.7984	120606.7	146277	9770.282	136506.7	143131.9	2.3362	0
11.4345	130.0131	86.0677	8.2485	157.6734		5.4909	2.6175	3.1671	12270.02	5310.3	1355.995	2164.804	4158.016	878.9398	11434.55	283.5562	1	115213.5	142831.6	11718.1	131113.5	139059.5	3.0834	0
10.4905	193.0799	87.2601	8.2519	142.4923		5.4364	3.3066	4.1832	11258.06	5322.12	1357.129	1478.222	3814.73	883.863	10490.51	285.9739	1	110439.9	137111.4	10776.48	126334.9	133642.5	2.9774	0
12.4819	122.1945	88.0844	8.5615	148.0618		6.4634	2.539	3.0513	11774.29	5099.479	1335.016	2187.849	3916.951	833	10698.05	283.336	0.8571	116298.4	143179.8	10981.44	132198.4	139644.9	4.0776	0
12.9354	155.5734	88.1																						

TABLE 4

Ethanol capacity draws (billion gallons)	Crude oil price draws (\$ per barrel)	Corn acreage draws (million acres)	Corn nonharvested acres draws (million acres)	Corn yield draws (bushels per harvested acres)	9 bg Mandate, Tax Credit and Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of Mandate Binding
11.143	122.5561	86.1165	8.4876	157.9629		5.4548	2.5337	3.0435	12262.48	5318.124	1356.732	2251.417	4052.012	882.1986	11143.04	283.3155	1	116054.3	143380.7	11426.35	131954.3	139702.5	2.9654	0
11.8031	180.4693	86.9074	8.445	150.8843		7.9122	3.149	3.951	11838.75	4785.68	1303.849	2222.193	4292.027	833	11803.08	285.2458	1	110837.8	138826.1	12088.32	126737.8	134934.9	3.8403	0
11.8001	140.7456	87.8448	6.6771	149.9971		5.9876	2.7335	3.3352	11874.93	5202.689	1345.267	1799.897	4290.955	834.1201	11800.13	283.8898	1	114075.1	142059.1	12084.02	129975.1	138169.3	3.2468	0
12.6992	182.9178	87.0561	7.0336	155.4091		6.6307	3.1469	3.948	12436.21	5063.356	1331.428	2188.531	4617.899	833	12699.22	285.1012	1	110289.1	139173.4	12984.32	126189.1	134993.8	3.8294	0
12.2537	164.7376	85.8482	7.2894	139.2456		8.0589	3.0082	3.7433	10938.97	4753.897	1300.692	1559.281	4090.097	833	11208.1	284.873	0.9147	112310.1	139703.1	11492.97	128210.1	136003.5	3.6442	0
11.4352	122.5058	86.7694	9.6374	153.5969		6.2167	2.5292	3.0368	11847.23	5153.044	1340.336	2001.362	4117.484	833	11320.43	283.2796	0.99	115975.8	143479.5	11603.71	131875.8	139744.3	2.9578	0
10.5658	74.0484	87.6609	7.2151	153.2235		4.078	1.8836	2.0846	12326.18	5616.436	1386.362	2301.088	3613.854	1006.446	9914.966	281.2682	0.9384	121940.7	148036.9	10196.23	137840.7	144754.8	2.0384	0
11.9026	136.8787	88.5049	9.7681	141.1532		7.0132	2.7112	3.3052	11113.95	4980.47	1323.196	1604.157	3971.128	833	10881.83	283.9351	0.9142	114835.8	141901.6	11165.77	130735.8	138307.3	3.2214	0
11.6908	119.4082	88.7623	9.1412	147.2556		6.4143	2.5221	3.0263	11724.65	5110.229	1336.084	2425.689	3617.644	833	9872.783	283.427	0.8445	116960.7	143016.9	10156.21	132860.7	139747.6	2.9572	0
12.0632	84.1138	86.8807	8.2349	156.5381		4.697	2.0365	2.3101	12311.07	5482.307	1373.04	2453.92	3649.22	950.5807	9946.073	281.7811	0.8245	120720.6	146848.5	10227.85	136620.6	143556.2	2.2583	0
11.7206	124.4376	85.5342	7.4362	158.4098		4.4546	2.5439	3.0586	12371.49	5534.829	1378.256	1821.898	4262.052	972.4562	11720.64	283.2805	1	115603.7	143507.6	12003.92	131503.7	139643.5	2.9762	0
12.086	91.5744	87.7692	7.7683	156.1744		4.9193	2.1218	2.436	12494.11	5434.16	1368.258	2249.721	4109.441	930.5276	11271.46	281.943	0.9326	119190.2	146643.6	11553.4	135090.2	142924.5	2.3742	0
12.3209	107.2893	87.4524	8.5726	149.2498		5.6082	2.3266	2.7382	11772.8	5284.892	1353.432	1581.592	4282.529	868.3577	11758.22	282.5662	0.9543	117274.5	145215.3	12040.79	133174.5	141339.4	2.6651	0
11.7585	158.0407	85.9024	7.8117	145.6389		7.3725	2.9237	3.6187	11373.04	4902.629	1315.464	1644.156	4275.796	833	11758.44	284.5167	1	112619.8	140562.7	12042.96	128519.8	136661.3	3.5189	0
11.3991	111.2395	86.1677	8.5282	140.6678		6.4745	2.5282	2.8889	10921.38	5097.197	1334.789	1932.382	3322.011	833	9034.679	476.6766	0.7926	118070.1	143481.5	9511.356	133970.1	140419.8	2.8338	0
11.8478	116.244	87.4433	9.8545	142.2833		6.2538	2.478	2.9612	11039.59	5145.01	1338.598	1636.953	3683.085	833	10053.98	283.257	0.8486	117190.3	143427.6	10337.24	133090.3	140100	2.8925	0
10.5104	114.5802	87.2619	7.5505	152.8051		3.5327	2.447	2.9155	12180.3	5734.585	1398.097	1767.992	3821.975	1055.655	10510.44	283.1009	1	117139.3	143832.8	10793.54	133039.3	140358.4	2.8451	0
12.966	128.7765	87.8539	9.3413	143.6215		6.4939	2.5809	3.1133	11276.09	5092.979	1334.37	1102.313	4511.43	833	12387.26	283.3207	0.9554	114887.4	143457.9	12670.58	130787.4	139379.3	3.0247	0
11.7262	91.4615	87.5202	8.6929	154.1219		4.9997	2.1344	2.4546	12149	5416.736	1366.527	2213.302	3827.165	923.2704	10475.31	282.0607	0.8933	119608.7	146266.1	10757.37	135508.7	142803.3	2.3965	0
12.4533	150.6404	87.9109	7.4251	156.6361		5.5524	2.8268	3.4758	12606.98	5296.984	1354.633	2151.504	4528.465	873.3939	12453.28	284.106	1	112932.4	141569.8	12737.38	128832.4	137469.6	3.3751	0
12.289	94.499	87.4968	7.1064	147.1343		5.7422	2.3128	2.5535	11828.19	5255.854	1350.548	2681.182	3282.342	856.2633	8881.21	499.2665	0.7227	119936.5	145217	9380.476	136836.5	142197.4	2.5076	0
10.632	142.3522	87.4791	8.9858	141.7728		6.9726	2.7803	3.4072	11128.22	4989.267	1324.069	1716.673	3863.208	833	10623.72	284.1988	0.9992	114460	141267.9	10907.92	130360	137756.6	3.3225	0
11.3968	136.9105	87.7712	9.4522	144.6493		7.0735	2.725	3.3255	11328.79	4967.406	1321.898	2038.364	3766.125	833	10314.98	284.0544	0.9051	115089.6	141588.7	10599.04	130989.6	138176.8	3.2454	0
10.5479	142.8467	89.0045	9.7992	146.4741		6.53	2.7878	3.4182	11601.53	5085.156	1333.593	2112.173	3835.607	833	10547.92	284.2338	1	114449.9	141182	10832.16	130349.9	137695.1	3.3338	0
12.453	93.103	86.5016	9.847	138.1061		6.359	2.4739	2.5471	10586.48	5122.219	1337.275	1853.57	3038.413	833	8177.994	822.0059	0.6567	120532.3	145432.3	9000	136432.3	142165.5	2.5135	1
11.2045	91.0684	87.8062	8.921	153.1746		5.322	2.2115	2.4747	12083.21	5346.897	1359.59	2693.929	3386.617	894.1825	9229.894	405.7911	0.8238	120206.9	145742.6	9635.685	136106.9	142640.9	2.4263	0
12.625	144.6029	87.1647	8.1251	150.1067		7.3509	2.7946	3.4282	11864.37	4907.303	1315.928	2354.168	4051.968	833	11080.59	284.1853	0.8777	114057.5	141322.3	11364.77	129957.5	137664	3.3395	0
11.4757	133.1984	87.4549	10.4113	141.035		7.3237	2.7691	3.2903	10865.84	4913.201	1316.514	1989.41	3411.717	833	9289.43	416.6434	0.8095	115821.1	141427.2	9706.073	131721.1	138302.8	3.2223	0
10.7644	168.619	87.6531	7.6206	149.6677		4.6277	3.0601	3.8197	11978.28	5497.335	1374.532	1833.251	3914.319	956.8402	10764.39	285.11	1	112186.2	139135.7	11049.5	128086.2	135578.9	3.7221	0
11.3057	175.1545	86.5818	8.7697	145.7846		8.2937	3.1175	3.9045	11343.8	4703.038	1295.64	2082.056	4028.07	833	11070.69	285.2543	0.9792	111544.9	138800.9	11355.95	127444.9	135145.4	3.8016	0
11.3113	124.7848	87.9152	6.8377	154.0706		5.1031	2.5573	3.0783	12491.66	5394.326	1364.301	2303.884	4113.217	913.9368	11311.35	283.3732	1	115762.1	143256.9	11594.72	131662.1	139524.5	2.9981	0
12.5915	119.2059	87.2197	8.2108	146.3649		6.4227	2.5152	3.0161	11564.13	5108.417	1335.904	2182.013	3702.797	833	10075.58	283.3797	0.8002	116884.8	143143.8	10358.96	132784.8	139809.2	2.9458	0
11.1808	167.7599	86.1492	9.4449	146.7382		7.6753	3.04	3.7902	11255.46	4837.014	1308.947	1808.772	4065.729	833	11180.75	284.9818	1	112079.6	139445.3	11465.74	127979.6	135754.5	3.6899	0
10.8273	75.745	87.3287	7.7323	152.7329		4.5214	1.9899	2.1377	12156.99	5520.371	1376.82	2551.163	3340.2	966.4346	9114.037	418.4383	0.8418	122066.9	147499.3	9532.475	137966.9	144430	2.0978	0
11.7681	99.4425	87.3828	9.6841	145.5545		5.5594	2.2767	2.6428	11309.39	5295.46	1354.481	1857.009	3527.685	872.7591	9609.78	311.1913	0.8166	119145.3	144966.3	9920.972	135045.3	141772.7	2.5856	0
11.578	97.374	87.654	6.8775	156.7025		4.0405	2.1971	2.547	12657.88	5624.568	1387.169	2024.127	4210.182	1009.833	11578	282.1607	1	118402.8	146163	11860.16	134302.8	142345.2	2.4805	0
11.6156	143.5633	87.5173	8.7845	158.5863		4.8746	2.7698	3.3917	12485.93	5443.831	1369.218	2112.481	4223.849	934.5556	11615.59	284.0326	1	113910.2	141709.8	11899.62	129810.2	137879.3	3.3	0
11.2073	162.5038	87.7226	6.4713	154.3156		3.7592	2.9851	3.7091	12538.34	5685.507	1393.222	1947.013	4075.387	1035.214	11207.32	284.7967	1	112491.2	139883.3	11492.11	128391.2	136184	3.611	0
11.1242	129.3691	86.3522	9.3465	142.0521		7.1453	2.7248	3.2225	10938.82	4951.857	1320.354	2031.329	3400.277	833	9273.087	419.6502	0.8336	116189.2	141782	9692.738	132089.2	138661.9	3.1564	0
11.5205	121.0955	89.9608	7.4671	156.4398		4.6049	2.5074	3.0047	12905.29	5502.272	1375.023	2477.826	4189.275	958.8962	11520.52	283.1844	1	116017.3	143721	11803.7	131917.3	139921.4	2.9253	0
11.2935	102.8376	85.9257	8.8515	154.2227		5.5729	2.2985	2.6966	11886.6	5292.541	1354.191	2250.335	3715.99	871.5432	10175.38	282.6405	0.901	118517.4	144875.4	10458.02	134417.4	141509	2.6339	0
11.3552	135.8651	85.9692																						

TABLE 5

10 BG Ethanol

S146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Mandate 10kg, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
0.4205	10.4929	184.1007	87.1205	8.0139	147.1587		6.2029	3.2123	4.0442	11641.22	5156.028	1340.633	2093.978	3815.586	833	10492.86	285.6586	1	110968.6	137648.1	10778.52	126869.6	134178.5	3.979	0
0.9381	11.7229	86.6054	86.2746	6.9964	144.878		5.9433	2.3781	2.4024	11485.67	5212.276	1346.219	2311.51	3375.547	838.1128	9173.829	826.1709	0.7826	120096.9	145998.9	10000	135998.9	142779.9	2.4007	1
0.0028	12.822	143.826	87.1566	8.7415	147.3592		7.1566	2.7852	3.4146	11783.02	4984.956	1320.899	187.444	4491.099	833	12341.58	132.256	0.9754	11783.02	126956.8	126956.8	132.256	137658.6	3.2586	0
0.5926	11.2758	171.2153	87.6983	6.1548	153.5186		5.1513	3.1422	3.9409	12518.44	5383.895	1363.265	2359.395	4100.292	909.5924	11275.81	285.3045	1	111010	138471.1	11561.11	126910	134749.6	3.8743	0
-0.1064	11.8679	132.3988	87.3343	7.2871	145.4265		6.6599	2.6367	3.1954	11640.99	5057.018	1330.799	1833.965	4184.207	833	11495.19	283.6117	0.9686	114813.9	142492.7	11778.8	130713.9	138701.1	3.1492	0
-1.1974	10.5843	187.2439	87.6272	8.7215	143.8115		5.8072	3.2396	4.0845	11347.56	5241.776	1349.149	1655.385	3848.837	850.3995	10584.3	285.7353	1	110697.1	137467.1	10870.04	126597.1	133968	4.0177	0
-0.1128	12.123	161.9905	87.5121	7.2125	150.3663		6.1778	2.946	3.6516	12074.36	5161.485	1341.175	1928.351	4405.351	833	12122.97	284.5376	1	111989.5	140297	12407.5	127889.5	136303	3.5892	0
0.8821	10.7621	136.9308	85.5072	8.0096	140.4691		7.5114	2.8426	3.3642	10866.02	4872.535	1312.475	1979.994	3468.015	833	9537.681	462.3192	0.8862	115049.9	130999.9	10000	130949.9	137730.9	3.3272	1
0.1004	11.4951	161.9156	86.7282	6.5129	144.2727		6.9568	2.9623	3.6757	11572.89	4992.69	1324.409	1840.759	4180.003	833	11495.08	284.6805	1	112271.3	139951.1	11779.77	128171.3	136159.2	3.6156	0
0.6591	10.5443	137.1664	87.5935	8.1372	151.8483		5.5456	2.7153	3.3112	12065.3	5298.444	1354.778	2301.773	3834.306	874.002	10544.34	283.9922	1	114823.9	141552.3	10828.33	130723.9	138066.6	3.2656	0
-1.5781	10.8322	193.7777	87.2955	8.4999	147.5539		5.2192	3.2933	4.1637	11626.59	5369.183	1361.804	1651.166	3938.975	903.467	10832.19	285.8741	1	110117.6	137135.7	11118.06	126017.6	133556.8	4.0931	0
-0.1779	11.9793	108.3127	85.7744	7.9433	146.1228		5.965	2.3739	2.8077	11372.9	5220.589	1347.405	1962.08	3599.613	841.5752	9807.077	282.9338	0.8187	117985.7	143975.7	10900.01	133885.7	140727.7	2.7773	0
-1.6628	11.0859	133.4481	87.8418	7.1869	154.3716		6.2688	3.2279	3.2535	11279	5364.536	1388.755	1874.558	4031.235	1016.483	11085.9	283.7357	1	114910.2	142179.9	11369.64	130810.2	138520	3.1824	0
-1.8458	10.7201	161.3027	87.2163	7.5097	143.3198		5.3642	2.977	3.6972	11423.53	5337.751	1358.682	1536.504	3898.224	890.374	10720.12	284.8402	1	112661.5	1395664	11004.96	128561.5	136023.9	3.6404	0
0.9396	10.3133	180.4966	87.4764	7.8567	149.2045		5.9079	2.7974	3.1879	11793.67	5199.962	1346.983	2913.106	3750.301	841.3143	10313.33	285.8062	0.8	111317.6	137916.5	10598.92	127217.6	134404.7	3.9375	0
0.0559	11.7042	138.6724	86.2509	5.9796	155.283		4.6332	2.7041	3.2949	12776.27	5496.148	1374.414	2291.27	4255.988	956.3455	11704.25	283.8676	1	114149.8	142037.9	11988.05	130049.8	138178.9	3.245	0
-0.0763	11.3812	178.8065	86.8273	7.7836	158.9597		4.4303	3.1952	3.9306	12723.72	5540.112	1378.781	2289.544	4138.629	974.6568	11381.23	285.2653	1	110996.5	138563	11666.49	126896.5	134807.5	3.8636	0
-0.5423	11.5704	119.2476	86.241	6.7095	140.3256		6.3913	2.516	3.0712	11020.4	5115.226	1336.58	1748.209	3585.386	833	9785.525	283.4163	0.8457	116885.2	142854.1	10068.94	132785.2	139612.9	2.9819	0
-1.3323	11.6218	129.7744	87.6218	9.923	143.9058		6.6647	2.6204	3.1713	11025.92	5055.982	1330.696	1440.728	3963.514	833	10872.79	283.631	0.9356	115350.7	142407.1	11156.42	131250.7	138815.8	3.1281	1
1.9283	11.567	121.4004	86.8713	8.1153	144.4881		7.077	2.701	3.0564	11379.32	4966.639	1321.822	2401.661	3454.194	833	9407.506	592.492	0.8133	116661.7	142561.7	10000	132561.7	139342.7	3.0014	0
0.2748	10.3779	113.1595	88.3681	8.1709	140.112		6.2867	2.508	2.9031	11237.24	5137.876	1338.83	2030.58	3494.952	833	9581.532	418.4684	0.9233	117511.4	143411.4	10000	133411.4	140192.4	2.8755	1
-0.9146	11.7952	136.6938	87.204	9.3888	155.4165		5.2996	2.6792	3.2582	12093.77	5330.086	1357.921	1827.398	4289.18	887.1808	11795.25	283.7134	1	114284.2	142263.1	12078.96	130184.2	138374.9	3.209	0
-0.5674	10.9072	141.1372	85.6069	8.9301	139.1345		7.2513	2.7767	3.4017	10668.39	4928.889	1318.073	1568.161	3618.266	833	9911.998	284.2809	0.9088	114757.2	140853.5	10196.28	130657.2	137571.3	3.3565	0
0.4177	10.9833	129.3493	86.0144	8.8354	143.4097		6.7861	2.6616	3.2034	11068.22	5100.178	1326.146	1958.449	3538.451	833	9678.312	321.6881	0.8812	115933	141833	10000	131833	138614	3.1652	1
0.4047	12.6117	125.6265	88.0536	7.8707	151.4888		6.3525	2.543	3.0573	12146.8	5123.625	1337.414	2058.998	3917.767	833	12061.2	283.2369	0.9602	115172.3	143416.8	12344.44	131072.3	139443.1	3.013	0
-0.2285	11.0577	142.6716	88.8789	6.7889	143.9089		5.838	2.7655	3.3854	11813.48	5235.107	1348.487	1959.278	4020.985	847.6221	11057.72	284.0923	1	114094	141335.8	11341.81	129994	137684.9	3.3356	0
0.1694	11.3814	129.1592	86.5085	8.9095	152.3783		6.5049	2.6053	3.1491	11687.42	5080.801	1334.134	1953.234	4074.457	833	11200.06	283.545	0.9841	115252.9	142636.5	11483.61	131152.9	138940	3.1054	0
-0.2567	11.5231	83.9236	87.9264	5.4987	149.9372		5.4987	2.2931	2.9017	11263.97	5191.491	1344.155	2124.898	4264.704	833	11728.02	285.2775	0.8	120047.2	146599.4	10000	136599.4	143380.4	2.9803	0
-0.2667	10.8524	98.6333	86.945	6.2972	148.0494		4.2376	2.2204	2.5814	11939.86	5581.861	1382.928	1598.344	3982.678	992.045	10952.37	282.3001	1	118428.8	145563.5	11234.67	134328.8	141497	3.5636	0
-0.0861	10.8554	131.9535	86.9479	8.189	143.9452		6.6711	2.6513	3.2169	11306.95	5054.601	1330.559	1838.221	3878.573	833	10660.89	283.7643	0.9821	115247.9	142092.6	10944.65	131147.9	138569.5	3.1733	0
-0.158	11.0025	134.9865	87.2928	7.2296	158.6886		4.1553	2.6788	3.2574	12705.12	5159.679	1384.697	2318.388	4000.893	999.4662	11002.46	283.8123	1	114808.7	141995	11286.27	130708.7	138361.9	3.2114	0
-1.278	11.9662	124.6162	88.4164	8.9866	146.2129		6.1754	2.5351	3.1065	11613.66	5161.995	1341.225	1555.947	4319.497	833	11878.17	283.2328	0.9976	115355.1	143416.5	12161.41	131255.1	139501.8	3.0023	0
-0.1172	11.6351	108.1808	87.9066	9.2788	140.2044		6.1104	2.4327	2.8068	11023.97	5176.072	1342.623	1747.758	3522.513	833	9601.17	398.8302	0.8252	118027.4	143927.4	10000	133927.4	140708.4	2.7008	1
-0.5253	10.7566	174.9263	87.8211	8.6496	155.9351		4.444	3.115	3.9008	12345.61	5537.13	1378.485	2143.088	3911.491	973.4148	10756.6	285.2938	1	111559	138500.9	11041.89	127459	134946.5	3.8381	0
-0.4627	12.0527	138.544	88.7571	7.8379	154.4668		5.2922	2.6941	3.2801	12499.33	5398.7	1346.736	2035.34	4382.799	915.7585	12052.71	283.7289	1	113999.5	142235.9	12336.44	129899.5	138264.8	3.2292	0
0.2562	11.5036	151.698	87.0557	8.8348	155.6202		5.7582	2.8538	3.5156	12172.74	5252.332	1350.198	2130.281	4183.134	854.7963	11503.62	284.3232	1	113112.5	140800.5	11787.94	129012.5	137005.9	3.4602	0
0.8817	11.5129	168.6742	87.9342	7.6403	148.3573		6.7678	3.031	3.777	11912.17	5303.635	1328.476	2128.564	4186.497	833	11512.87	284.9034	1	111723.6	139421.3	11797.77	127623.6	135623.6	3.7139	0
0.2659	10.6817	183.7202	86.7912	7.2524	154.9254		5.1575	3.2031	4.0306	12322.58	5382.55	1363.132	2381.605	3884.265	909.0322	10681.73	285.5892	1	110919.4	137786.7	10967.33	126819.4	134256.4	3.9648	0
0.3269	11.0697	154.4575	87.7166	9.7981	155.8362		5.5894	2.895	3.5763	12126.93	5288.956	1353.835	2186.735	4025.358	970.0501	11069.74	284.5187	1	113074.6	140328.8	11354.26	128974.6	136673.9	3.5212	0
0.4149	11.728	161.9227	85.8627	7.2335	154.458		6.0383	3.1552	3.9601	12160.28	5191.491	1344.155	2124.898	4264.704	833	11728.									

TABLE 5

10 BG Ethanol

S146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Mandate (log, Tax Credit & Import Tariff)	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
0.8899	12.2557	116.3771	88.426	5.6802	152.8848		5.7528	2.4255	2.8841	12650.58	5253.555	1350.319	2334.204	4455.195	855.3056	12251.75	282.8339	0.9997	115963.1	144397.7	12534.58	131863.1	140362.8	2.8443	0
-0.1019	12.0586	97.2338	87.0938	8.8514	153.3385		5.2745	2.2084	2.5638	11997.58	5387.195	1360.613	2112.499	3866.797	898.4716	10573.81	282.2982	0.877	118774.5	145530.6	10856.11	134674.5	142036	2.5372	0
-0.9875	10.5688	106.8887	86.8797	15.1326	150.3686		5.1782	2.1389	3.9317	11751.63	5387.195	1362.693	2493.366	907.1621	1096.76	285.979	0.81	14081.9	145530.6	10856.11	134674.5	142036	2.5372	0	
-1.2685	10.1735	100.6166	86.3371	8.0762	150.3394		4.6902	2.2628	2.6439	11765.71	5483.797	1373.188	1856.061	3699.46	951.2015	10173.52	282.5207	1	118614.5	144970.5	10456.04	134514.5	141003.7	2.6164	0
-1.0104	11.6743	114.7827	86.5689	9.3689	140.1272		6.3848	2.5094	2.9344	10817.82	5116.636	1336.72	1599.727	3529.734	833	9620.126	379.8743	0.824	117352.1	143252.1	10000	133252.1	141003.1	2.9048	1
1.1385	10.8996	174.4046	86.0386	8.3728	156.0062		5.9844	3.1058	3.8871	12116.02	5203.374	1345.305	2367.429	3963.479	834.4052	10899.57	285.2414	1	111538.6	138623.4	11184.81	127483.6	135023	3.8241	0
-0.1739	11.2588	167.0214	86.8099	7.4964	151.1944		5.6721	3.0214	2.7627	11991.76	5271.051	1352.057	2009.943	4904.119	862.5926	11258.83	284.9088	1	111964.4	139408.2	11543.74	127864.4	135692.3	3.7013	0
0.9588	10.1349	152.8599	86.9463	10.4154	143.9439		7.5636	2.9075	3.5947	11016.16	4861.231	1311.352	1994.12	3614.456	833	9934.273	284.7911	0.9802	113717.4	139836.4	10218.99	129617.4	136549	3.5445	0
2.0953	10.6028	137.7163	86.6277	8.7186	155.7408		6.3935	2.7202	3.3185	12133.63	5114.752	1336.533	2591.791	385.554	833	10602.78	284.0012	1	114746.9	141533.7	10886.78	130646.9	138029.2	3.2725	0
1.3525	11.7842	103.3632	89.0689	8.5451	155.4922		5.4739	2.2822	2.6725	12525.17	5313.991	1356.322	2538.016	4034.363	880.4773	11069.17	282.4926	0.9393	117867.6	145119.3	11351.66	133767.6	141465.2	2.642	0
1.4813	11.7813	192.7484	87.1952	6.6843	145.4738		7.8847	3.2551	4.1074	11712.27	4971.647	1304.441	2097.083	4284.103	833	11781.28	285.5954	1	109803.2	137770.1	12066.88	125703.2	133885.7	4.0328	0
0.1676	12.7702	158.4488	87.5983	8.8666	141.9579		7.2344	2.9315	3.6301	11176.3	4804.715	1306.739	1688.757	4142.089	833	11333.52	284.6021	0.8875	112617.3	140135.5	11618.12	128517.3	136395.6	3.5722	0
-0.3706	12.0919	126.6569	88.4879	8.3423	155.5032		6.2446	2.5646	3.0744	12462.89	5365.832	1361.471	2034.481	4397.034	902.069	12091.85	283.2711	1	115061.4	143336.6	12375.12	130961.4	139352.9	3.0296	0
1.4267	11.5194	154.7466	87.8617	6.8768	147.8173		5.1321	2.8862	3.5634	11970.96	5388.047	1363.677	1717.047	4188.87	911.3214	11519.4	284.4272	1	112849.7	140553.5	11803.82	128749.7	136753.8	3.5065	0
-0.0912	12.0155	162.6314	89.937	7.5417	153.3353		6.9774	3.1535	3.9577	12381.12	5263.236	1347.423	2210.176	4369.283	833	12015.53	285.2277	1	110442.7	139643.5	12300.76	126342.7	134683.8	3.8863	0
-0.3211	11.0911	93.62	87.5898	6.9092	139.2693		5.7785	2.3433	2.5102	12333.53	5248.415	1349.809	1941.939	3493.207	853.1646	8394.036	615.9645	0.8461	1119585	145465	10000	135485	142246	2.4987	1
0.7697	12.2882	144.6735	88.409	9.365	154.0767		6.7209	2.7568	3.3727	11278.84	5043.8	1329.486	2102.109	4468.443	833	12288.22	283.9019	1	113355.5	141827.6	12572.12	129255.5	137780.7	3.3181	0
-1.1006	11.8839	120.3435	86.3149	8.5039	147.6919		6.1859	2.494	2.985	11883.92	5159.719	1310.999	1610.637	4145.702	833	11384.36	283.1564	0.958	116001.6	143569.2	11667.51	131901.6	139813.4	2.9451	0
0.8721	11.3204	155.496	86.8591	6.8709	137.6998		7.7829	2.9256	3.6214	11014.35	4813.715	1306.633	1922.49	3736.513	833	10233.26	284.738	0.904	113980.3	139798.6	10518	129280.6	136412.8	3.5691	0
0.3309	12.7106	186.027	87.1445	7.1228	146.8151		7.7333	3.165	3.9747	11748.39	4824.442	1307.698	1759.21	4622.043	833	12710.62	285.1575	1	109903.1	138798.9	12995.78	125803.1	134615.5	3.8989	0
0.7442	11.2609	124.1295	86.6842	7.8497	148.7566		7.9993	3.4171	4.3465	11727.14	4766.819	1301.975	1838.289	4585.059	833	12608.92	285.9845	1	108009.3	136804.2	12894.9	123909.3	132653.3	4.2589	0
-1.9516	12.6203	157.9176	86.6474	5.2685	158.6405		2.9668	2.9279	3.6248	11623.05	5358.866	1360.779	1522.136	4800.104	899.1677	11220.29	284.6062	1	112719.5	140124.4	11504.89	128619.5	136421	3.5676	0
-0.1661	11.7765	136.465	86.6204	8.4274	150.0701		5.7895	2.6771	3.255	12212.407	5245.608	1349.53	1988.955	4282.378	851.9957	11776.54	283.7087	1	114313.4	142273.6	12060.25	130213.4	138391.4	3.206	0
0.4071	12.9173	177.4251	86.0162	7.1672	144.1944		3.0467	3.0962	3.8731	11369.59	4700.652	1295.403	1669.326	4469.205	833	12268.24	285.0031	0.9498	110725.4	139178.6	12553.24	126625.4	135137.7	3.803	0
-0.2965	11.009	177.0855	87.0774	6.8709	153.792		5.2636	3.1291	3.9216	12089.05	5359.551	1360.847	2063.917	4003.285	899.4529	11009.04	285.3021	1	111285.2	138479.5	11294.34	127185.2	134843.9	3.857	0
0.7596	11.3314	171.574	87.2802	8.4663	146.5427		6.735	3.0653	3.8275	11813.39	5036.739	1328.785	2092.367	4120.498	833	11331.37	285.0428	1	111574.3	139090.7	11616.41	127474.3	135351.4	3.7638	0
-0.735	11.2502	107.979	86.8085	7.1112	148.9957		5.5234	2.3403	2.7583	11874.55	5303.265	1355.257	1860.114	4079.902	876.0097	11213.6	282.7694	0.9867	117316.5	144712.8	11496.27	133216.5	141012.1	2.7251	0
0.7402	10.8957	107.2492	86.7019	10.1116	145.444		5.9028	2.7801	3.1132	11302.21	5223.993	1347.091	195.045	4417.865	841.7626	11133.21	282.9377	1	118194.1	144034.1	144034.1	140034.1	140815.1	3.7613	0
0.445	12.0111	131.6779	88.2485	8.2363	142.695		6.8381	2.6504	3.2155	11417.35	5018.402	1326.963	1974.769	3862.219	833	10562.79	283.7734	0.8794	1153107.6	142263.3	10846.56	131219.7	138574.8	3.1724	0
-0.6922	10.9961	169.8978	86.7038	9.1249	150.2925		5.8062	3.0578	3.8164	11659.52	5242	1349.172	1817.259	3998.599	850.493	10996.15	285.0679	1	111850.8	139032	11281.22	127750.8	135400.6	3.7548	0
-0.8775	12.6889	119.2511	87.3864	7.5345	157.5881		5.1085	2.4515	2.9224	12583.7	5393.15	1364.184	1897.498	4113.423	913.4468	12686.92	282.8683	1	115473.4	144342.8	12969.79	131373	140167.8	2.88	0
1.3565	11.1564	196.811	87.4014	6.1622	155.406		5.3831	3.3095	4.1876	12596.94	5333.662	1358.276	2557.465	4056.869	888.6703	11156.39	285.8749	1	109782.4	137124.7	11442.27	125682.4	133444.1	4.1143	0
1.0144	11.5611	178.6191	88.1205	6.8998	154.5408		6.0796	3.1407	3.9388	12273.74	5182.751	1343.287	2308.67	4204.035	833	11561.1	285.2558	1	110836.8	138583.2	11846.35	126736.8	134769.9	3.8705	0
-1.2018	11.7682	179.0763	87.5905	11.225	144.7213		7.4218	3.1266	3.918	11051.72	4891.933	1314.402	1331.046	4279.341	833	11768.19	285.187	1	110812.6	138766	12053.37	126712.6	134886	3.842	0
-0.5831	10.6079	133.6442	87.229	9.5084	156.3178		6.2786	2.6726	3.2482	12149.11	5486.315	1373.438	2077.684	3857.427	952.2503	10607.93	283.8417	1	115116.5	141908.3	10891.77	131016.5	138402.2	3.204	0
-1.7702	11.7156	128.2693	88.4157	7.5895	149.0414		4.9229	2.5826	3.1157	12042.93	5433.376	1368.18	1648.952	4260.219	930.2009	11715.6	283.4076	1	115090.8	142989	11999.01	130990.8	139127.3	3.071	0
0.6178	12.0433	130.9188	86.6229	8.324	145.1924		6.2362	3.1946	3.1946	11577.49	5032.818	1328.395	2043.386	3937.89	833	10779.43	283.6992	0.8951	115288.1	142251.3	11063.13	131188.1	138690.1	3.1512	0
0.4605	11.7421	195.6275	89.503	7.8803	156.3684		4.9289	3.2826	4.148	12763.2	5432.064	1368.049	2361.585	4269.849	929.6547	11742.09	285.6915	1	109614.4	137542.2	12027.78	125514.4	133670.4	4.0723	0
-0.8355	11.6335	165.6388	87.3947	8.8676	147.3866		6.2899	2.9973	3.7273	11573.85	5116.361	1336.693	1655.449	4230.345	833	11633.45	284.7753	1	111908.2	139276.4	11918.23	127908.2	135889.9	3.665	0
-0.715	12.1435	110.8687	87.5019	7.3237	159.3566		5.0188	2.3583	2.7849	12480.25	5412.599	1346.116	1952.161	4415.626	821.5475	1214									

TABLE 5

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Mandate (Prog. Tax Credit & Import Tariff)	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
0.842	12.1118	134.2693	85.5127	9.0081	148.5116		7.0058	2.6887	3.2719	11362.15	4982.072	1323.355	2068.273	3753.452	833	10244.27	283.9417	0.8458	115229.2	141657.4	10528.21	131129.2	138268.4	3.2286	0
0.727	12.2365	205.3064	87.0655	9.9598	154.0348		6.3253	3.3514	4.2496	11676.95	5129.512	1337.999	1702.281	4472.164	833	12298.45	285.8246	1	108719.5	137203.8	12584.28	124619.5	133152.9	4.1672	0
-0.018	11.152	107.9684	85.7748	8.7537	145.2544		4.9339	2.8762	2.7591	1237.94	543.999	1367.44	219.894	929.219	111.21	11377.8	14467.75	1	10377.8	14467.75	11400.7	11400.7	14100.7	3.2361	0
-2.0143	10.2133	189.9485	87.391	7.5622	146.2502		4.4376	4.1385	11674.88	5538.512	1378.622	1667.91	3713.942	973.9002	1023.314	285.9172	1	110650.2	137049.5	10489.26	126550.2	133669.8	4.0724	0	
-0.1488	11.7938	147.7062	88.1838	9.2548	142.3248		7.3301	2.8178	3.4625	11233.56	4911.806	1316.376	1686.349	4084.026	833	11211.33	284.2444	0.9506	113585.1	140980.6	11495.58	129485.1	137280.2	3.4099	0
-1.7734	11.594	148.3525	87.7216	9.579	149.0466		5.5867	2.8151	3.4585	11646.89	5289.552	1353.985	1515.164	4215.984	870.2985	11593.96	284.1839	1	113356.1	141134.2	11878.14	129256.1	137310.6	3.4043	0
0.8697	12.683	137.1529	87.8701	6.6593	153.3879		6.5084	2.6628	3.234	12456.75	5089.857	1334.06	2185.92	4611.909	833	12682.75	283.5478	1	113829.4	142695.7	12966.3	129729.4	138521.8	3.1821	0
0.0113	10.3549	126.6272	87.8723	7.0347	136.6369		6.6334	2.6124	3.1548	11045.4	5062.761	1331.689	1876.936	3539.332	833	9710.199	289.8011	0.9377	116197.4	142097.4	10000	132097.4	138878.4	3.1366	1
0.2834	12.4331	100.2732	86.573	8.5571	144.8446		6.1002	2.4177	2.6496	11300.18	5178.285	1342.843	2070.656	3473.4	833	9423.021	276.9786	0.7579	118829.8	144729.8	10000	134729.8	141510.8	2.6161	0
-0.1683	11.8466	192.2388	88.1004	7.9602	154.9981		5.2665	3.2484	4.0976	12421.57	5358.917	1360.784	2092.83	4307.85	899.1889	11846.59	285.5633	1	109812.9	137845	12132.15	125712.9	133939.7	4.0229	0
0.2499	10.7319	164.4156	87.6012	9.5628	156.7186		5.2993	3.0091	3.7446	12232.31	5930.015	1364.171	2258.135	3902.504	913.3908	10731.89	284.9453	1	112402.7	139319.5	11016.83	128302.7	135773.2	3.6864	0
0.4946	10.773	136.6788	86.997	9.0809	150.248		6.34	2.704	3.2946	11706.74	5126.324	1337.682	2090.275	3917.465	833	10773.02	283.9254	1	114761.8	141718.8	11066.95	130661.8	138159.5	3.2486	0
-1.4997	10.9578	144.719	87.0503	8.2718	135.0899		7.2157	2.799	3.4346	10642.17	4936.597	1318.838	1276.953	3871.785	833	10646.37	284.2578	0.9716	114102.1	140932.7	10930.63	130002.1	137412.4	3.3853	0
1.1994	10.2228	212.512	86.9398	8.5953	145.5801		7.378	3.4798	4.4387	11405.4	4901.443	1315.346	2236.214	3717.394	833	10222.83	286.5986	1	109052.6	135462.1	10509.43	124952.6	132079.1	4.3643	0
1.5419	12.2374	133.6927	87.1219	7.8548	153.2973		6.2503	2.6503	3.7555	12151.44	5006.133	1328.724	2342.4	4209.427	833	11552.06	283.6493	0.844	114469.9	142405.6	11835.71	130959.9	138595.7	3.1685	0
0.1045	12.1464	148.8225	86.7813	9.9007	150.1092		7.2863	2.8161	3.4601	11540.5	4921.302	1317.319	1788.98	4277.898	833	11752.08	284.166	0.9675	113244.3	141190.6	12036.25	129144.3	137306.1	3.4052	0
-0.7061	10.3663	151.9054	87.5275	8.2204	158.8211		3.9228	2.8858	3.5627	12596.64	5721.563	1396.803	2255.492	3769.553	1050.231	10366.27	284.5859	0.9368	113605.6	140156.5	10650.86	129505.6	136728	3.5112	0
0.1608	11.9717	162.8424	87.2365	7.954	139.7174		7.9223	2.9796	3.7011	11077.114	4783.505	1303.633	1667.012	4087.993	833	11214.94	284.7775	0.9368	112319.1	139718.8	11499.71	128219.1	136017	3.6417	0
0.1699	11.7827	132.8036	87.7647	7.9813	144.0339		6.9047	2.6688	3.2427	11222.17	5003.987	1325.531	1873.449	3784.202	833	10348.73	283.862	0.8783	115315.9	141848.5	10632.59	131215.9	138425.8	3.1997	0
-1.7601	12.1442	183.0052	87.1716	8.4919	147.8985		5.9929	3.1533	3.9573	11636.61	5201.549	1345.154	1438.193	4146.072	833.645	12144.2	285.2072	1	110361.1	138690.5	12429.41	126261.1	134689.5	3.8853	0
0.454	11.8312	155.0495	87.0777	7.96324	147.9729		7.5164	2.8889	3.5674	11459.81	4871.45	1312.367	1841.99	4199.007	833	11538.84	284.4334	0.9753	112815.8	140539	11823.27	128715.8	136733.1	3.5103	0
-0.4064	12.7062	89.1607	87.5945	8.9922	151.52		4.2626	2.1034	2.4088	11909.82	5426.858	1367.532	2079.363	3706.582	927.4863	10081.16	281.9941	0.7934	119926.7	146189.9	10363.15	135826.7	142854	2.3872	0
-1.8147	11.7723	134.3259	86.9021	6.8874	154.8203		5.2821	2.7661	3.3862	12387.9	5572.204	1381.968	1762.874	4280.835	988.0228	11772.3	283.9998	1	113621.7	141578	12056.3	129521.7	137697.1	3.3334	0
-0.2593	11.428	172.0323	87.102	7.175	151.5753		4.3063	3.0672	3.8302	12114.96	5355.655	1355.683	2016.308	4155.618	877.7966	11427.95	285.0345	1	111497.1	139110.1	11712.99	127397.1	135339.7	3.766	0
-0.3788	11.7217	188.7993	87.9017	7.7901	135.3551		6.2911	2.4724	2.4039	10843.51	5136.923	1338.735	1820.571	3312.277	833	8991.943	1008.058	0.7671	120056.2	149596.2	10000	135966.2	142737.2	2.4086	1
0.4537	11.3538	113.8073	87.1564	8.5749	138.4577		7.0094	2.6824	2.9124	10980.201	4981.305	1323.279	1943.299	3397.327	833	9253.702	284.2978	0.815	117397.8	143297.8	10000	133297.8	140078.8	2.8964	1
-1.1963	11.5127	100.0516	86.073	7.5088	145.3804		5.3259	2.2415	2.6125	11712.46	5346.077	1359.509	1752.015	3959.015	893.8412	10864.7	282.3799	0.9437	118521.9	145369	11147.07	134219.9	141780.8	2.5841	0
0.1651	11.391	136.4015	87.7683	6.9185	142.9641		6.1931	2.6198	3.2767	11241.44	5002.154	1325.35	1622.187	4209.427	833	11552.06	283.6493	0.9675	113244.3	141190.6	12036.25	129144.3	137306.1	3.4052	0
-0.7928	10.8369	123.2055	86.4872	9.0135	155.475		5.8659	2.5417	3.2052	12045.24	5229.053	1347.886	2280.5	3940.699	845.1007	10836.92	283.3782	1	115903.9	143010.6	11120.3	131890.3	139431	3.0153	0
-0.7497	10.9653	140.4147	87.1747	7.5313	154.3427		4.5525	2.7423	3.351	12293.38	5513.627	1376.15	2049.599	3987.375	963.6256	10965.28	284.0274	1	114336.6	141486	11249.31	130236.6	138618.8	3.3026	0
-0.7451	11.7914	135.3997	86.9123	8.8949	141.8435		6.8949	2.6841	3.2653	11154.4	5006.115	1325.745	1438.193	4003.378	833	10981.37	283.8327	0.9311	114780.9	141946.1	11265.21	130680.9	137831.8	3.2191	0
0.1928	11.3703	178.9149	87.5544	8.0184	152.7516		6.7728	3.1366	3.9326	12149.25	5270.897	1352.042	2127.146	4134.641	862.5288	11370.27	285.2714	1	110992.9	138548.4	11655.54	126819.9	134796.5	3.8657	0
0.9325	12.1411	184.3999	87.0887	8.3921	154.4328		6.6736	3.1666	3.977	12153.34	5303.872	1328.301	2143.208	4414.956	833	12141.13	285.2508	1	110259.6	138586	12426.38	126159.6	134585.9	3.9043	0
0.6184	11.5412	122.8738	86.683	8.3961	152.7585		6.2649	2.528	3.0351	11958.99	5142.609	1339.3	2144.905	4097.178	833	11259.13	283.2829	0.9756	115818.7	143261.1	11542.41	131718.7	139545.6	2.9942	0
0.1836	11.7453	224.6778	86.5017	9.4939	157.244		6.8404	3.5328	4.5169	11723.98	5009.245	1326.054	1882.681	4271.004	833	11745.26	286.5085	1	107664.3	135596.1	12031.77	1273564.3	131723.1	4.4296	0
-1.3478	11.2628	154.4575	86.9977	7.5113	141.2803		7.5625	2.8985	3.5814	11187.47	4861.467	1311.376	1798.792	3980.84	833	10937.57	284.5847	0.9711	111333.6	140255.7	11222.12	129033.6	136643.3	3.5268	0
-1.2507	11.6109	121.4289	86.6403	8.237	154.5918		5.2023	2.5023	2.9972	12120.49	5412.619	1366.118	1796.048	4222.155	921.5556	11610.93	283.1572	1	115787.3	143581.3	11894.08	131687.3	139752.6	2.9562	0
-0.1357	11.6518	127.2927	87.0509	9.1789	152.879		4.9726	2.5725	3.1007	12516.51	5422.804	1367.11	2102.051	4237.036	925.7144	11651.85	283.3821	1	115212.2	143047.4	11935.23	131112.2	139205.5	3.0566	0
-0.1052	11.0076	156.1789	86.604	8.4002	136.5394		7.7033	2.9279	3.6248	10541.37	4830.943	1308.344	1334.469	3832.613	833	10523.71	284.7047	0.956	113173.2	139881.6	10808.41	129073.2	136402.4	3.571	0
1.1638	11.8019	147.2235	87.2952	6.9185	145.0461		7.3269	2.8125	3.4546	11658.33	4912.524	1316.447	2107.05	4209.427	833	11216.08</									

TABLE 5

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Mandate (Prog, Tax Credit & Import Tariff)	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
-1.0066	11.9319	193.0981	87.1937	7.9205	141.8404		7.2611	3.2537	4.1054	11244.13	4926.753	1317.86	1425.659	4338.859	833	11931.87	285.5669	1	109716.5	137833.9	12217.43	125616.5	133901.1	4.0299	0
-1.3077	11.8423	113.1089	86.7465	8.7428	145.0978		5.716	2.3943	2.838	11608.37	5261.524	1351.11	1446.321	4288.788	858.6246	11793.26	282.7834	0.9959	116510.4	144486.5	12076.05	152410.4	140599.2	2.8009	0
-0.4397	10.3787	193.0981	89.5656	9.3607	143.4991		3.3493	4.1025	4.1844	11844.12	5627.812	1307.27	1501.96	4282.266	1011.227	10978.73	285.6388	1	109716.5	137833.9	12217.43	125616.5	133901.1	4.0299	0
0.0756	12.0667	123.2421	86.8025	7.0365	151.7785		6.1453	2.5177	3.02	12016.76	5168.526	1341.874	1995.137	4362.224	833	12005.94	283.1612	0.995	115406.3	143395.4	12289.1	131306.3	139639.5	2.977	0
-1.2235	12.1635	140.7621	86.1963	9.4202	138.2844		7.2644	2.7621	3.8803	10161.93	4926.051	1317.791	1355.604	3782.487	833	10325.52	284.1773	0.8489	114600.6	141110.7	13100.7	130500.6	137695.5	3.3338	0
-0.5993	12.3998	232.9371	87.5333	8.3658	151.986		6.1481	3.5772	4.5826	12032.35	5167.908	1341.813	1778.601	4509.03	833	12399.84	286.5369	1	106899.7	135486.1	12686.38	122799.7	131402.4	4.4885	0
-0.8759	11.4285	126.7964	86.677	7.1292	143.5766		6.398	2.5756	3.1053	11141.51	5113.768	1336.435	1640.11	4095.889	833	11259.4	283.4399	0.9852	115446.1	142888.9	11542.84	131346.1	139173.3	3.0625	0
-1.3219	11.0352	137.3844	87.3811	7.8704	140.1591		6.5149	2.7058	3.2973	11144.15	5088.435	1333.919	1473.997	4012.798	833	11035.2	283.8976	1	114576	141795.1	11319.09	130476	13815.5	3.25	0
0.5233	11.3962	101.7917	87.2647	8.1042	151.2799		5.7227	2.3281	2.6820	11625.33	5260.079	1350.967	2222.908	351.356	858.0229	9638.05	361.9497	0.8457	118708.8	144608.8	10000	134608.8	141389.8	2.6558	1
-0.2437	10.2104	160.3284	85.7832	7.5203	146.7056		5.8738	2.9805	3.7024	11481.16	5227.345	1347.716	1947.265	3712.886	844.3893	10210.44	284.9254	1	112965.7	139361	10495.36	128865.7	135982.6	3.648	0
-0.4673	11.1827	172.2932	87.7122	8.1004	152.3767		5.1785	3.0767	3.8443	12310.99	5377.986	1362.678	2014.75	4066.443	907.131	11182.72	285.1026	1	111581.9	138949.7	11467.83	127481.9	135258.2	3.7809	0
-1.231	10.6415	153.693	86.4165	7.6127	145.3533		6.2627	2.898	3.5807	11452.98	5280.883	1353.034	1680.736	3869.635	866.6878	10641.5	284.5885	1	113330.3	140156.4	10926.09	129230.3	136639.2	3.5275	0
-0.6208	12.6843	152.4979	87.1999	10.137	140.7215		7.6658	2.8781	3.5514	10844.41	4839.076	1308.152	1468.174	3993.004	833	10907.68	284.4852	0.8599	113312.4	140404.6	11192.17	129212.4	136801.8	3.4977	0
2.0209	11.3645	135.7149	87.3919	7.766	144.189		7.1533	2.727	3.3156	11481.18	4954.027	1320.569	2419.627	3551.958	833	9698.984	301.0158	0.8534	115340.1	141240.1	10000	131240.1	138021.1	3.274	1
-1.3204	12.0215	73.8567	86.0972	7.6364	148.6476		4.4865	1.9731	2.0775	11662.02	5527.93	1377.571	1884.495	3505.056	969.583	9784.777	455.2231	0.7931	121899.2	147799.2	10000	137799.2	144580.2	2.0704	1
0.1654	12.0647	169.5625	87.0478	8.0478	140.3644		8.2548	3.0424	3.7935	11107.36	4711.454	1298.476	2081.314	3783.117	833	10331.12	285.115	0.8549	112403.4	139179.7	10616.24	128303.4	135022.3	3.7361	1
-1.0087	11.2404	117.1987	87.1945	8.3003	139.8934		6.2308	2.4836	2.9695	11036.78	5149.994	1340.033	1631.052	3680.703	833	10076.19	283.2733	0.8964	116947.3	143206.8	10359.46	132847.3	139871.2	2.9343	0
0.7655	10.7914	149.3985	88.7493	9.8029	146.2743		6.1508	2.8473	3.5059	11547.83	5001.584	1325.293	2061.798	3924.159	833	10791.44	284.3989	1	113629.4	140605.2	11075.84	129529.4	137039.9	3.454	0
1.3192	11.5228	136.3361	86.6854	4.6523	150.548		6.0967	2.6818	3.2619	12349.92	5179.055	1342.92	2402.821	4190.123	833	11522.84	283.7562	1	114443.3	142149.9	11806.6	130343.3	138349.4	3.2137	0
-0.408	11.2113	139.8418	87.002	9.003	155.7884		5.1966	2.7296	3.3324	12151.35	5374.291	1362.311	2030.328	4070.623	905.9282	11211.26	283.9536	1	114274.1	141669.3	11495.22	130174.1	137969	3.2835	0
-1.7652	10.6345	126.7866	87.9825	8.3514	149.8985		4.3832	2.59	3.1265	11936.59	5550.305	1379.783	1758.508	3867.08	978.9109	10634.47	283.5633	1	115745.2	142563.3	10918.04	131645.2	139048.8	3.0854	0
-0.0428	11.1489	203.636	87.7875	8.2486	147.0143		6.2486	3.3728	4.2809	11711.56	5146.147	1338.651	1936.609	4054.15	833	11148.92	286.0851	1	109293.5	136628.5	11435	125193.5	132947.6	4.2049	0
0.2606	11.5173	113.2877	85.6571	7.9445	150.3883		6.0082	2.4246	2.8826	11687.05	5198.216	1344.823	2081.76	3827.255	833	10485.44	283.0291	0.9104	117138.7	143807.2	10768.47	133038.7	140340.8	2.8403	0
2.3004	11.3378	131.2462	86.6219	9.1863	148.5103		7.1916	2.7404	3.2359	11499.98	4941.821	1319.357	2497.821	3505.984	833	9567.681	282.9193	0.8439	115738.1	141638.1	10000	131638.1	138419.1	3.2009	1
-0.0033	11.3445	122.7815	86.6544	8.7119	146.2527		6.4237	2.5456	3.061	11399.3	5108.205	1335.883	1915.204	3806.014	833	10432.31	283.4395	0.9196	116228.1	142841.8	10715.75	132126.1	139392.4	3.0223	0
-0.3518	10.8426	115.1171	85.8006	9.5127	146.2601		6.1593	2.4641	2.9407	11157.88	5165.478	1341.571	1855.559	3560.269	833	9747.92	283.2453	0.899	117317	143248.2	10031.17	133217	140019.1	2.9073	0
0.7444	11.1062	161.7883	87.5407	9.0216	139.8901		7.9819	2.9259	3.7207	10913.38	4770.552	1302.35	1841.817	3763.623	833	10321.31	284.9509	0.9294	112796.5	139302.8	10006.26	128916.5	135888.6	3.6653	0
0.1366	9.724	139.374	87.9389	8.734	152.6542		4.1408	2.4689	2.9889	12022.03	5074.926	1385.075	1904.495	4516.066	1000.777	9784.777	283.5552	1	110564.4	142931.7	10997.81	129539.4	13762.8	2.0704	1
0.1768	11.046	166.0168	87.0955	9.0572	141.9151		6.9691	3.0154	3.6538	11074.82	5012.354	1328.362	1463.072	4038.029	833	11104.58	284.9116	1	112111.6	139401.1	11389.5	128661.6	135734.8	3.6935	0
-0.5313	11.1833	118.5057	86.4857	7.3008	156.8762		4.589	2.4756	2.9579	12422.21	5505.707	1375.364	2112.159	4065.966	960.3269	11183.31	283.1191	1	116278.1	143644.5	11466.42	132178.1	139595.5	2.9194	0
-1.4436	11.1498	101.9607	88.2709	10.1505	148.1722		5.3817	2.2687	2.6527	11575.26	5333.969	1358.306	1661.697	3930.492	888.798	10798.1	282.4761	0.9685	118153	145133.6	11080.58	134053	141566.7	2.6234	0
-0.3042	10.5241	134.1387	86.6475	8.7243	135.766		6.9387	2.6974	3.2847	10850.85	4996.607	1324.798	1714.898	3579.552	833	9818.23	284.0254	0.9329	115440.6	141429.9	10102.26	131340.6	138191	3.2428	0
0.1784	12.9431	116.9783	87.5359	7.1686	151.2034		6.0589	2.4409	2.9066	12151.82	5187.89	1343.797	2045.899	4339.231	833	11893.44	282.924	0.9189	116080.5	144156.9	12176.36	131980.5	140237.3	2.8673	0
1.2607	9.9653	149.4604	87.6884	8.0057	155.1057		4.9553	2.8693	3.5383	12359.24	5426.36	1367.483	2612.365	3623.749	927.279	9965.312	284.5859	1	113996.8	140146.7	10249.9	129896.8	136847.2	3.4884	0
1.0198	12.3988	111.4538	88.4855	7.9486	146.6071		2.1087	2.4087	2.859	11807.28	5193.291	1344.334	2320.14	3714.516	833	10118.38	283.0167	0.8161	117506.6	143808	10401.39	134066.6	140459.8	2.8625	0
0.276	10.2586	134.2564	87.1381	10.281	144.251		6.9316	2.7037	3.2941	11086.71	4998.143	1324.951	1902	3552.258	833	9751.524	284.06	0.9506	115526.4	141462	10000	131426.4	138139.5	3.2522	1
-2.5701	10.5459	155.4312	87.1284	8.2075	148.8084		4.1991	2.1933	3.6121	11744.1	5990.139	1383.755	1537.757	3834.884	995.5139	10545.93	284.6728	1	113226.2	139956.8	10830.6	129126.2	136470.4	3.5585	0
-0.429	11.7296	189.5319	88.017	8.2976	133.7113		6.8806	3.2332	4.0751	10699.38	4619.208	1287.314	1326.609	4191.254	833	11520.38	285.5654	0.9822	110142.3	137848.3	11805.94	126042.3	134047.9	4.003	0
-0.5795	10.1535	124.6425	87.8774	5.621	157.1018		2.9042	2.5749	3.1042	12922.63	5870.75	1411.621	2433.718	3692.174	1112.367	10153.48	283.5712	1	116180.3	142517.3	10437.05	132080.3	139157.6	3.0654	0
2.8411	12.7792	123.7491	88.3728	8.9528	156.4247		6.4649	2.5389	3.0511	12423.28	5089.294	1334.995	2752.157	4001.863	833	10928.08									

TABLE 5

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Mandate (Volg, Tax Credit & Import Tariff)	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding	
-0.9562	11.7659	135.8041	87.5375	7.3275	146.1992		6.0598	2.6697	3.2442	11726.32	5187.045	1343.713	1682.052	4278.506	833	11765.9	283.686	1	1143777.7	142327.3	12049.58	130277.7	138448.6	3.1955	0	
-1.1439	10.2765	163.3383	87.9017	8.5488	151.1089		4.1103	3.0104	3.7464	11990.93	5544.44	1379.211	1951.911	3736.907	976.4592	10276.5	285.016	0.9392	112689	139150.5	10561.51	128589	135750.8	3.6905	0	
-0.5472	12.0869	145.3068	86.9789	9.2437	146.1706		6.5568	2.5912	3.1292	11621.02	5079.82	1328.371	1192.252	5079.82	1119.2	10276.5	283.922	0.9392	112689	139150.5	10561.51	128589	135750.8	3.6905	0	
-2.4904	10.8236	151.7711	85.7783	8.1857	144.2075		5.3872	2.8724	3.5429	11242.79	5332.78	1358.188	1325.654	3935.869	888.3028	10823.64	284.4779	1	113411.9	140420	11108.12	129311.9	136844.3	3.4899	0	
-1.2799	11.8125	128.8183	87.1243	7.8303	149.2029		6.6668	2.5869	3.1223	11831.37	5267.854	1351.739	1653.075	4925.89	861.2611	11812.46	283.4098	1	114993.7	142989.6	12095.87	130893.7	139095.3	3.0767	0	
-0.4241	10.6075	138.4578	87.1677	6.9697	147.302		5.2428	2.7287	3.3309	11901.7	5364.056	1361.295	1015.738	3857.281	901.3292	10607.52	284.0287	1	114677.6	141469.2	10891.55	130577.6	137963.2	3.2846	0	
0.334	11.142	142.9928	86.6915	7.3674	139.1423		7.3345	2.796	3.4302	10951.07	4901.862	1316.282	1839.981	3664.944	833	9989.317	284.3357	0.8965	114555.4	140729	10273.65	130455.4	137421.9	3.3839	0	
-1.4209	10.4381	155.9889	87.478	8.7602	157.0576		3.6482	2.9282	3.6252	12363.22	5709.349	1395.59	2015.479	3795.664	1045.144	10438.08	284.7176	1	113222.2	139850	10722.79	129127.2	136398.3	3.5717	0	
-0.2613	12.2759	107.1176	86.6906	6.8325	154.4219		5.074	2.3123	2.7111	12331.84	5306.739	1355.620	2014.909	4375.135	877.4567	12024.7	282.4912	0.9795	116997.5	145204.7	12307.19	132897.5	141243	2.6828	0	
-0.0636	11.0013	166.6527	87.7792	6.3924	156.8841		4.0021	3.0247	3.7676	12768.29	5613.374	1386.058	2361.208	4000.484	1005.17	11001.33	284.9577	1	112105.6	139291.8	11286.29	128005.6	136568.8	3.7074	0	
-0.314	12.1571	171.0914	88.1432	6.7747	152.4545		6.0924	3.0372	3.7861	12100.1	5199.912	1344.991	1899.424	4420.772	833	12157.12	284.8286	1	111256.8	139598.8	12441.95	127156.8	135593.7	3.7194	0	
-0.3135	10.1474	129.03	88.4879	7.9423	142.9256		5.7306	2.6285	3.1832	11512.03	5258.369	1350.797	1953.573	3689.978	857.3106	10147.44	283.7519	1	115764.3	142095.5	10431.19	131664.3	138737.7	3.1425	0	
1.3616	11.9182	251.9786	86.5037	8.7156	148.0566		8.3564	3.7394	4.8218	11517.05	4689.44	1294.29	1964.425	4333.899	833	11918.22	287.1513	1	105946.4	134051.8	12205.38	121846.4	130122.9	4.7232	0	
-0.7308	12.5865	143.5789	87.6776	7.4606	154.0771		5.7349	2.7372	3.3437	12359.13	5257.432	1350.704	1915.717	4576.899	856.9204	12586.48	283.7995	1	113313.1	142083.3	12870.28	129213.1	137940.4	3.2888	0	
0.4404	10.4317	136.6259	87.9023	9.404	149.0112		6.2289	2.7177	3.306	11691.71	5138.034	1338.945	2147.568	3793.348	833	10431.71	283.9949	1	114925.5	141541.2	10715.71	130825.5	138091.8	3.261	0	
0.6163	12.0702	147.2719	86.1535	8.4075	143.963		7.3475	2.8126	3.4548	11840.47	4908.042	1316.002	1977.727	4093.7	833	11226.51	284.2252	0.9301	113615.4	141026.6	11511.13	129515.3	137212.1	3.2024	0	
-2.642	10.3282	171.9614	87.5391	10.359	137.9269		6.1028	3.0975	3.8749	10645.21	5177.734	1342.788	1133.994	3755.695	833	10328.17	285.3001	1	111973.9	138487.4	10613.47	127873.9	135070.9	3.8153	0	
0.2784	12.6113	113.6975	87.3053	7.7279	154.1913		5.8787	2.3995	2.8656	12426.114	5226.292	1347.611	2113.352	4336.931	843.9504	11901.83	282.7881	0.9437	116398.4	144483	12184.61	132298.4	140560.8	2.8079	0	
-0.6173	13.0189	97.7383	86.5148	6.7839	150.1095		5.2984	2.2081	2.5632	11968.36	5352.018	1360.099	1942.778	4015.151	896.3157	10955.52	282.2589	0.8415	118523.4	145661.2	11237.78	134423.4	142043.8	2.5538	0	
0.5884	11.8566	90.2968	86.9807	8.9323	139.5766		6.2822	2.6164	2.4352	10836.93	5205.826	1327.204	2022.91	3230.992	833	8752.576	1247.424	1	0.7382	119843.2	145743.2	1000	135743.2	142524.2	2.4477	1
0.2491	9.953	87.2686	87.1717	6.2732	138.1539		6.4929	2.5352	2.3711	10900.31	5108.374	1335.899	1995.148	3225.885	833	8826.262	1173.739	0.8868	120199.3	146099.3	10000	136099.3	142880.3	2.3823	1	
1.8691	12.424	116.8298	87.2166	8.2212	156.0631		6.0225	2.4507	2.9211	12482.77	5179.317	1342.946	2579.03	4146.475	833	11362.52	283.0164	0.9146	116354.8	143900.3	11645.54	132254.8	140151.6	2.883	0	
-0.0719	12.8673	176.8807	86.4736	9.2339	147.9008		5.8018	3.0765	3.8444	11423.82	4748.934	1300.199	1496.703	4642.98	833	12766	284.8651	0.9921	110554.8	139505.7	13050.86	126454.8	135304.6	3.7724	0	
-0.079	12.3582	112.4118	87.6381	7.6086	153.8157		8.0781	2.3783	2.8144	12309.79	5258.47	1350.807	2028.686	4412.474	857.3526	11218.11	282.6944	0.9814	116413.8	144724.6	12410.8	132313.8	140729.6	2.777	0	
-0.5175	11.0314	147.056	88.2509	7.4998	146.1845		4.7723	2.0669	2.3295	11804.57	5466.012	1371.421	2079.954	3541.388	943.794	9684.479	283.5122	0.8779	120585	146485	10000	136485	143266	2.3115	1	
1.2864	11.1499	85.0998	88.6506	9.1193	143.6267		7.2893	2.8318	3.483	11422.82	4898.987	1315.103	2133.793	3839.948	833	10538.67	284.3817	0.9452	113915.8	140638.9	10823.05	129815.8	137155	3.4329	0	
-0.8775	11.0486	155.1143	86.7681	8.3251	142.6663		6.9387	2.9226	3.8875	11105.57	4996.818	1324.8	1531.477	4017.678	833	11048.62	284.5689	1	113028.9	140262.1	11333.17	128298.9	136613.9	3.5322	0	
0.5788	10.3457	139.4811	87.3053	9.404	149.0112		4.2089	2.7392	3.3403	12571.66	5587.216	1358.589	2007.767	3763.071	944.84	10342.77	284.0725	1	113089.5	141393.3	11686.84	129706.9	137653.1	3.3454	0	
-0.2838	11.0164	120.1247	86.2074	9.3944	146.3252		6.4143	2.5735	3.0357	11239.68	5110.238	1336.085	2002.97	3550.393	833	9711.136	288.9841	0.8815	116831	142731	10000	132731	139512	3.0004	1	
0.3312	10.3114	150.4289	87.7684	8.5518	155.188		4.6311	2.8757	3.5478	12793.46	5496.588	1374.458	2379.751	3684.135	956.5289	10113.38	284.5845	1	113838.1	140154.1	10415.96	129738.1	136801.2	3.4978	0	
0.9531	12.3307	178.5001	87.0482	8.6046	150.8255		7.6833	3.1052	3.8865	11831.29	4835.294	1308.775	1968.334	4483.892	833	12330.7	285.023	1	110614.3	139130	12615.73	126514.3	135069	3.8157	0	
1.1867	11.5548	108.4817	87.2565	8.16	149.8385		5.8775	2.3741	2.808	11581.17	5226.548	1347.637	2404.252	6042.074	9906.866	282.9235	0.8574	117918.3	144008	10189.79	133818.3	140727.9	2.7773	0		
2.1634	11.7801	139.937	87.7539	8.7319	147.7056		7.2238	2.7555	3.3705	11671.99	4934.853	1318.665	2447.552	3735.322	833	10209.61	284.1704	0.8667	114728.2	141122	10493.78	130628.2	137744.1	3.3248	0	
-1.3479	12.3334	126.6161	86.2196	8.8349	150.2683		4.2258	2.5391	3.0515	11628.47	5578.563	1382.6	1918.105	4476.496	990.6714	12333.38	283.1957	1	115094.1	143061.6	12583.78	130994	139478.8	3.0065	0	
1.165	10.9533	113.3589	86.7175	7.6843	153.8034		5.8564	2.4189	2.8742	12155.57	5231.108	1348.09	2401.521	3926.893	845.9653	10794.96	282.9754	0.9855	116978.8	143956.7	11077.93	132878.8	140390.7	2.8391	0	
-0.5741	12.3361	224.7568	87.4188	6.5236	144.6712		6.8648	3.5139	4.4892	11703.2	5012.628	1326.39	1643.34	4485.842	833	12336.07	286.3435	1	110743.2	135955.1	12622.41	132332.6	131891.9	4.3986	0	
1.7897	11.9427	148.2241	86.8967	8.0065	158.3479		6.4642	2.8047	3.4432	12492.1	5099.428	1335.011	2479.864	4342.795	833	11942.69	284.1031	1	113208.9	141335.7	12226.79	129108.9	137399.9	3.3879	0	
0.7739	10.4536	151.897	87.9375	7.0747	145.3303		7.8834	3.5592	4.1751	82.57	561.853	1341.211	2212.44	3801.318	833	10453.63	284.5658	1	113567.2	142025.4	10738.2	129467.2	136748.7	3.5074	0	
0.4772	10.2506	144.6913	88.8691	9.339	141.5664		7.2736	2.8159	3.4596	10978.18	4924.045	1317.591	1875.653	3625.981	833	9962.893	284.4064	0.9719	114416.4	140653.7	10247.3	130316.4	137265.1	3.4127	0	
0.4055	10.6576	146.9507	86.8681	8.9973	142.9475		7.1406	3.0167	3.7558	11301.97	4957.876	1320.559	1918.285	3975.355	833	10657.23	284.98									

TABLE 5

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Mandate (Volg, Tax Credit & Import Tariff)	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
1.0254	12.1497	169.5075	87.169	9.9895	137.5336		8.4695	3.0883	3.8612	10614.78	4664.935	1291.856	1834.214	3588.776	833	9767.847	285.3535	0.804	112409.6	136362.8	10053.2	128309.6	135126.7	3.8051	0
-0.4384	10.8814	231.2384	88.4451	10.3393	149.6564		5.825	3.6147	4.6376	116890.04	5237.918	1348.766	1894.703	3956.861	848.7928	10881.38	286.9321	0.7824	107578.5	134646.8	11168.31	123478.5	131051.7	4.5528	0
-0.3652	12.3652	73.1806	87.408	14.8016	140.866		4.519	1.9807	2.1956	11875.09	5520.94	1648.872	1048.41	3020.249	866.6512	9675.764	351.955	0.7824	112296.5	147166.5	11168.31	123478.5	131051.7	4.5528	0
-0.3195	11.4402	188.6933	88.6269	11.357	145.3886		7.5848	3.2278	4.0671	11152.16	4860.968	1311.326	1584.801	4160.068	833	11440.19	285.5603	0.7824	110236.3	137862.1	11725.75	126136.3	134087.6	3.9957	0
-0.7166	10.6033	155.0081	87.5965	8.7683	157.0276		7.8924	2.9275	3.6242	10378.23	5678.966	1392.572	2212.8	3659.373	1032.489	10063.28	284.7683	0.7824	113476.7	139724.7	10348.05	129376.7	136393.7	3.5726	0
1.9764	11.3749	198.7485	89.1902	7.7851	149.0592		6.9462	3.3221	4.2062	12134.18	4994.993	1324.638	2443.221	4136.325	833	11374.9	285.8707	0.7824	109543.3	137104.1	11660.78	125443.3	133350.5	4.131	0
-0.5281	11.6934	95.1055	88.4013	8.7683	154.5091		4.9828	2.1625	2.4651	12304.74	5418.22	1366.674	2032.457	4161.501	923.8888	11436.94	282.0612	0.9781	118559.3	146178.3	11719.14	134459.3	142406	2.4694	0
0.4187	12.1222	118.3943	87.2098	7.9923	152.6551		6.9004	2.4654	2.9428	12092.96	5180.404	1343.504	2159.806	4218.596	833	11583.3	283.0395	0.9555	116093.9	143860.2	11866.34	131993.9	140400.5	2.9034	0
2.5403	11.3605	164.9758	86.2698	8.7683	144.2764		8.1651	3.0305	3.776	11358.24	4730.903	1284.008	2139.876	4154.444	833	10166.6	285.0994	0.8949	112603.4	138955.1	10451.7	128503.4	135590.7	3.7909	0
0.2571	11.5843	112.9267	87.1777	8.336	149.9441		5.9461	2.4137	2.8664	11821.84	5211.688	1346.161	2093.06	3931.061	837.8681	10781.16	282.9595	0.9307	117029.1	143993.2	11064.12	132929.1	140431.7	2.8316	0
0.4509	11.4315	146.5229	87.5736	7.6588	144.4675		7.1438	2.8016	3.4386	11545.08	4962.179	1320.386	1915.516	4121.996	833	11333.31	284.1747	0.9914	113631.8	141149.3	11617.49	129531.8	137409.6	3.3862	0
0.2148	11.9356	159.227	87.9079	8.1618	150.5038		6.4265	2.9224	3.6168	12002.09	5107.599	1333.822	1983.45	4340.22	833	11935.61	284.4874	0.7824	112295.6	140415.7	12220.1	128195.6	136482	3.5564	0
-2.1029	11.41	188.5411	87.8778	6.855	154.2577		3.2272	4.0663	12498.39	5709.341	1395.589	1797.221	4149.101	1045.14	11410.03	285.5633	0.7824	110260.1	137855.7	11695.59	126160.1	134090.8	3.9951	0	
0.2102	12.1657	106.2946	88.4705	7.3676	144.1524		5.7721	2.3397	2.7574	11691.18	5249.387	1349.905	2112.838	3723.478	853.5696	10155.26	282.781	0.8347	118022.9	144361	10438.05	133922.9	141001	2.7272	0
0.5754	11.7985	176.9913	87.1006	7.6921	155.1286		5.587	3.1054	3.8867	12472.72	5289.493	1373.889	2266.722	4290.344	870.274	11798.97	285.1041	1.110954	138941.9	12083.55	128958.4	130552.2	3.8187	0	
-0.5034	11.8435	182.6753	87.3191	8.025	149.8483		6.9924	3.1159	3.9657	11862.09	5178.474	1342.862	1819.026	4360.714	833	11843.47	285.2721	1.105116	138540.3	12128.74	126411.6	134636.1	3.8951	0	
-1.6053	12.1745	150.9728	87.4207	8.9639	140.7749		7.3118	2.8348	3.4876	11033.49	4915.784	1316.771	1223.936	4321.001	833	11933.93	284.2022	0.9802	112980	141098.1	12218.14	128880	137165.1	3.431	0
-0.053	12.6419	114.8502	86.3471	7.4783	151.9362		5.9863	2.4026	2.8767	12022.11	5202.968	1345.295	1985.774	4321.741	834.236	11597.92	282.8911	0.9174	116434.3	140255.1	11880.81	132334.3	140390.6	2.8392	0
0.389	11.839	128.3576	87.6688	8.68	138.778		6.8282	2.6312	3.1871	10823.13	5020.55	1327.176	1958.838	3533.092	833	10622.02	283.8145	0.8127	116048.4	141854.3	10000	131948.4	13870.7	3.1483	0
0.9855	11.788	152.9536	88.1297	9.0665	157.3518		5.8887	2.8599	3.5246	12440.75	5224.124	1347.396	2337.643	4286.538	843.0478	11787.98	284.3042	1.128793	140851.6	12072.29	128779.3	136965.5	3.4677	0	
0.5692	11.3552	131.1719	88.4429	7.9228	154.6636		5.3145	2.6256	3.179	12453.53	5348.516	1359.751	2319.233	4129.174	894.8569	11355.23	283.5926	1.149927	142531.6	11638.82	130892.7	138785	3.1338	0	
0.4895	11.2449	100.7588	87.9382	9.2825	148.8087		5.6245	2.3216	2.6592	11622.78	5268.656	1351.621	2218.157	3523.588	860.7622	10622.901	377.0992	0.8558	118817.7	144717.7	10000	134717.7	141498.7	2.6358	1
2.1087	11.5867	163.8599	87.4138	7.8343	158.7874		6.0729	2.9799	3.7016	12636.21	5184.214	1343.432	2660.202	4213.362	833	11586.75	284.725	1.12074	139845.8	11871.47	129794.4	136024.4	3.6403	0	
-0.4642	10.8201	207.1347	86.4663	6.6937	147.0839		5.6835	3.414	4.3416	11733.27	5268.571	1351.811	1914.752	3934.573	861.5597	10820.08	286.2767	1.091835	136189.9	11106.36	125083.5	132614.8	4.266	0	
-0.4371	10.471	116.1843	87.2193	8.3623	149.3372		5.3783	2.462	2.9377	11776.27	5334.693	1358.378	1984.449	3807.653	889.0997	10471.05	283.1557	1.168553	143509.5	10754.2	132755.3	140407.7	2.9021	0	
0.4807	11.3748	116.4259	87.1102	7.0831	154.8822		5.3846	2.4453	2.9132	12396.26	5333.329	1358.243	2276.885	4136.275	888.5313	11374.76	282.9974	1.163885	143963.3	11657.76	132288.5	140193.6	2.8753	0	
0.1094	11.4129	156.5439	86.6359	8.6889	145.4382		5.7772	2.9212	3.6149	11365.55	4836.066	1308.401	1906.776	3972.263	833	10924.19	284.6258	0.9572	112964.8	140073.6	11208.81	128864.8	134665.5	3.5594	0
-0.2694	11.144	132.5003	87.0643	7.9822	146.9463		4.755	3.0647	3.2105	12345.42	4830.981	1373.514	2073.424	4453.392	952.5692	11433.76	283.8889	1.146654	142933.7	11447.86	128954.1	137429	3.3826	0	
1.0209	11.4166	92.1323	88.1334	7.7634	137.8569		6.9781	2.3912	2.4778	11079.54	5200.412	1345.041	1007.295	3391.625	833.1717	9234.324	284.6756	0.8089	119708.9	145608.9	10000	135608.9	142389.9	2.4723	1
-1.1737	12.1664	108.0127	87.9216	8.0968	155.0906		4.9563	2.321	2.7299	12380.08	5426.13	1367.46	1833.161	4424.148	927.1832	12166.41	282.5044	1.168355	145184.4	12448.92	132735.5	141177.1	2.6948	0	
-1.801	12.6669	152.0632	87.6668	8.2297	152.8251		5.1687	2.8352	3.4882	12139.99	5380.118	1362.89	1589.929	4497.037	908.0191	12366.85	284.1448	1.126937	141244.7	12651	128593.7	137172.3	3.4297	0	
-0.1462	12.5545	150.5594	85.9585	9.0887	148.3235		7.4187	2.8353	3.4883	11392.26	4892.622	1314.47	1669.493	4280.677	833	11742.71	284.2299	0.9353	113101.1	141028	12026.94	129001.1	137156.6	3.4326	0
0.8951	12.2437	123.2122	87.4983	7.2225	143.437		6.5636	2.5592	3.081	11541.51	5077.889	1332.872	2173.707	3695.404	833	11069.59	283.5284	0.8224	116358.9	142612	10353.12	132258.9	139279.4	3.0431	0
-0.3413	10.7144	138.6557	87.9049	8.1681	136.2932		7.0791	2.7439	3.3534	10867.58	4964.022	1321.562	1672.958	3674.04	833	10081.31	284.1482	0.9409	114903.4	141568.9	10365.46	130803.4	137832.2	3.3086	0
0.5882	12.7898	150.3702	88.3348	7.6226	149.5709		7.1643	2.8086	3.4541	12071.22	4977.236	1319.943	1955.345	4614.195	833	12686.79	284.0161	0.9919	112690.8	141561.6	12970.81	128590.8	137386.3	3.3904	0
-1.1698	11.4701	119.9664	87.9889	11.0162	138.4027		6.628	2.5806	3.0318	10653.23	5063.937	1331.486	1500.052	3522.76	833	9609.734	390.2665	0.8378	116832.1	142732.1	10000	132732.1	139513.1	3.0002	1
-1.2046	12.0427	168.4624	87.406	8.2919	152.3656		5.3014	3.1751	3.7521	12053.54	5174.744	1356.397	1720.45	4379.161	880.7909	12042.69	284.7704	1.115111	139738.5	12327.46	127411	135770.3	3.687	0	
0.4602	11.604	125.1657	88.2986	8.0864	155.0589		5.4352	2.548	3.0646	12445.37	5322.375	1357.155	2260.231	4219.638	883.9693	11604.01	283.3077	1.154349	143222.2	11887.32	131334.9	139395.7	3.0278	0	
0.0906	11.4218	164.5493	87.2741	7.3676	151.9365		5.9043	2.9915	3.7187	12065.58	5242.399	1349.211	2068.134	4153.394	850.6591	11421.84	284.787	1.120911	139697.7	11706.63	127991.1	135929.3	3.6517	0	
-0.6655	11.3616	146.3707	86.4675	6.9837	150.2184		5.4839	2.7992	3.435	11971.25	5311.823	1350.927	1830.269	4131.474	879.5744	11381.55	284.163								

TABLE 5

10 BG Ethanol

S146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Mandate (log, Tax, Credit & Import Tariff)	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
1.4594	11.1539	156.9759	86.4365	8.9943	150.3109		7.4892	2.9204	3.6138	11640.4	4877.33	1312.95	2169.163	4045.957	833	11125.93	284.5948	0.9975	112839.3	140149.8	11410.52	128739.3	136476.8	3.5573	0
-0.7866	11.7839	107.9721	87.5585	8.2019	149.1124		5.6415	2.3384	2.7555	11633.05	5277.672	1352.715	1819.983	4115.328	865.3505	11301.48	282.6537	0.9591	112732.2	144757.3	11594.14	133173.2	141028.4	2.7221	0
-2.1844	12.2619	177.3439	87.8294	8.7572	149.7967		4.2686	3.0375	3.8751	11631.91	5445.997	1454.941	2156.991	4864.564	935.4576	1224.85	285.0911	1	112421.6	139939.9	11618.29	128321.6	136200	3.6081	0
-1.5053	12.177	194.6039	88.9317	8.2092	148.8426		5.4538	3.26	4.1147	12014.94	5318.345	1356.754	1627.55	4428.002	882.2905	11277.01	285.5481	1	109509.3	133791.9	12462.56	125408.3	133860.2	4.0375	0
-0.6691	11.6905	114.7426	86.4447	7.4666	141.045		6.1866	2.4547	2.9269	11139.19	5163.474	1341.372	1752.181	367.158	833	9957.914	283.1897	0.8518	117251.7	143392.8	10241.1	133151.7	140096.2	2.8932	0
1.7069	11.1167	133.1201	86.6377	7.7886	152.2709		6.6865	2.6583	3.2273	12006.42	5051.264	1330.227	2408.928	3981.004	833	10943.29	283.7522	0.9844	115007.3	142134.4	11227.04	130907.3	138520.4	3.1823	0
-0.2876	12.5691	116.9913	87.4886	6.9643	147.7992		6.0685	2.4467	2.5193	11901.41	5185.165	1343.527	1894.265	4243.453	833	11635.01	282.9725	0.9257	116205.5	144023.5	11917.98	132105.5	140187.1	2.8765	0
1.1275	11.9512	114.5805	87.0828	6.8029	148.1226		6.7096	2.5935	2.929	11624.65	5046.248	1329.729	2538.868	3474.81	833	9448.957	51.0435	0.7906	117347.8	143247.8	10000	133247.8	140028.8	2.9067	1
1.8383	10.6542	110.4559	87.2047	6.8496	150.7812		5.8631	2.3963	2.8408	12116.04	5229.671	1347.947	2615.656	3675.408	845.3581	10087.87	282.9784	0.9468	117624.1	143894.9	10370.85	133524.1	140556.5	2.8056	0
1.0766	11.0648	127.3236	86.7817	7.486	154.0109		5.8783	2.5865	3.1213	12212.4	5226.368	1347.619	2368.849	4023.577	843.9825	11064.84	283.4993	1	115489.2	142373.6	11348.34	131389.2	139084.6	3.0788	0
0.0193	10.8183	175.4351	86.7594	7.4605	147.5353		6.0473	3.1183	3.9056	11699.39	5189.751	1343.982	1996.72	3933.935	833	10818.32	285.2953	1	111493.3	138496.9	11103.62	127393.3	134922.7	3.8425	0
-1.4248	11.3436	143.3406	85.1889	7.4757	153.8832		5.2704	2.7659	3.3859	11901.73	5368.074	1360.7	1757.17	4124.946	898.838	11343.61	284.0557	1	113904.1	141431.7	11627.67	129804.1	137688.8	3.3349	0
0.4727	12.0133	158.3526	87.1846	6.558	156.273		5.4201	2.9112	3.6002	12599.84	5323.049	1357.222	2264.858	4368.458	884.25	12013.26	284.4399	1	112332.5	140530.2	12297.7	128232.5	136571.6	3.5399	0
2.3018	12.0202	81.9484	87.472	8.9654	140.8123		7.2316	2.7204	2.2514	11054.69	4933.151	1318.496	2490.224	3077.801	833	8307.206	1692.794	0.6911	120738.3	146638.3	10000	136638.3	143419.3	2.2834	1
0.622	11.3336	160.9399	87.9518	7.14	152.4573		5.5836	3.0671	3.2021	12301.35	5290.21	1353.96	2282.299	4121.311	870.5725	11333.61	284.6848	1	112421.6	139939.9	11618.29	128321.6	136200	3.6081	0
0.1331	9.6609	174.6771	87.7019	8.8233	149.9199		5.3568	3.1692	3.9401	11675.55	5339.363	1358.842	2171.238	3515.067	891.0446	9660.937	339.0636	1	112014.5	139714.5	10000	127914.5	134895.5	3.8842	1
1.0226	12.3731	106.1765	86.6794	7.7926	144.4878		6.175	2.4406	2.7668	11541.23	5162.077	1341.233	2292.211	3510.705	833	9532.918	467.0817	0.7705	118227.3	144127.3	10000	134127.3	140908.3	2.7442	1
0.2046	11.2674	274.9041	87.0579	8.4038	151.0661		6.1387	3.927	5.0984	11881.96	5195.954	1342.016	2037.742	4097.249	833	11387.43	287.8915	1	104900.2	132355.5	11555.33	128002.2	128635.9	4.9961	0
-0.205	12.4006	142.9092	88.9305	6.8217	146.7178		6.4037	2.7344	3.3397	12046.82	5112.355	1336.313	1853.662	4509.308	833	12400.6	283.8149	1	113456.3	142540.7	12684.42	129356.3	137957.6	3.2856	0
-0.1175	11.9798	123.9458	86.4977	8.839	154.9064		6.1371	2.5252	3.031	12029.83	5170.291	1342.049	1934.981	4347.51	833	11955.28	283.1915	0.998	115381.3	143019.8	12238.47	131281.3	139580.3	2.9879	0
-0.6652	11.4838	200.9707	86.8258	9.4889	141.345		7.8528	3.3386	4.2306	10931.19	4798.561	1305.128	1145.662	4175.938	833	11483.83	285.9173	1	109344	137013.8	11769.75	125244	133225.1	4.154	0
1.5733	10.3671	124.3978	87.6679	6.0828	141.1489		7.2231	2.7663	3.1108	11162.53	4934.994	1318.679	2258.83	3415.032	833	9351.837	468.1633	0.9021	116361.4	142261.4	10000	132261.4	139042.4	3.0866	1
-0.1896	11.7476	138.6882	87.6869	10.3035	133.488		5.9023	2.9282	3.3634	10329.76	4788.262	1304.062	1558.865	3444.006	833	9369.715	630.2853	0.7976	115021.2	140921.2	10000	130921.2	137702.2	3.3325	1
-1.5037	10.9485	151.8056	88.2096	8.1372	146.608		7.1231	2.8695	3.5387	11739.26	5088.274	1363.7	1692.603	3981.227	911.4162	10948.5	284.4512	1	113352.9	140485.8	11232.95	129252.9	136869.9	3.4852	0
0.7844	11.4449	116.0675	87.7287	8.32	142.0842		6.5679	2.563	2.9581	11282.71	5079.947	1332.778	2137.425	3500.562	833	9546.936	453.0645	0.8342	117211.9	143111.9	10000	131111.9	139892.9	2.9305	1
0.9583	10.2545	152.222	88.3797	6.0823	146.3685		5.9644	2.8922	3.5721	12045.76	5294.376	1354.374	2393.783	3728.916	872.3077	10254.52	284.6228	1	116287.6	140067.8	10539.15	129528.6	136675.2	3.5209	0
-0.3269	10.9229	105.9982	86.9298	10.51	145.0536		6.1518	2.4542	2.763	11084.97	5167.113	1341.734	1865.023	3476.105	833	9501.406	496.5944	0.8699	118241.5	144141.5	10000	134141.5	140922.5	2.7416	1
0.0622	11.3336	160.9399	87.9518	9.8509	143.2527		6.1518	3.0438	3.7957	11054.17	4828.332	1308.065	2179.06	4101.365	833	11223.88	284.5191	0.8903	112922.1	143030.5	11508.4	128822.1	138625.9	3.53	0
-1.9597	10.8329	148.0554	86.9698	7.0702	151.2385		6.2806	3.446	4.2083	11931.05	5131.001	1376.088	1853.835	3975.614	963.3651	10932.94	284.2449	1	118254.6	140971.8	11217.19	129754.6	137380.9	3.3951	0
0.8594	11.0872	169.3884	88.3066	6.8823	158.5993		4.4409	3.0502	3.8052	12910.58	5537.801	1378.551	2586.818	4031.714	973.6941	11087.21	285.0292	1	111851	139123.2	11372.24	127751	135452.5	3.7434	0
-0.2357	10.4687	195.4723	87.0223	8.1504	146.2408		5.9566	3.32	4.203	11534.29	5209.401	1345.934	1933.248	3806.796	836.9156	10468.69	286.0221	1	110143.7	137968.2	10754.71	126043.7	133336.4	4.1336	0
1.3635	11.6957	164.0653	87.0857	8.3759	150.4471		7.4324	2.979	3.7003	11841.66	4889.653	1314.175	2149.844	4255.929	833	11695.72	284.7064	1	112010.3	139890.7	11980.43	127910.3	136034.2	3.6385	0
0.1647	12.8988	149.2568	86.446	9.9865	139.5138		7.376	2.8725	3.543	10988.17	4822.868	1307.641	1705.515	3595.125	833	9751.915	284.6262	0.756	114110.7	140047.3	10036.54	130010.7	136816.5	3.495	0
-0.9531	11.3166	178.9957	85.666	7.4578	145.5748		7.2756	3.1389	3.9361	11385.13	4923.61	1317.548	1793.868	4115.109	833	11316.55	285.2874	1	111009.4	138511.3	11601.84	126909.4	134776.6	3.8693	0
-0.9031	11.9789	112.6117	86.612	9.4011	139.8815		6.4503	2.5222	2.8922	10800.38	5102.436	1335.31	1620.936	3150.87	833	9539.466	460.534	0.7964	117561.1	143461.1	10000	13461.1	140242.1	2.8664	1
-0.993	10.9584	159.2936	86.8625	7.0388	148.6529		5.2017	2.9494	3.6566	11868.99	5273.973	1362.18	1841.904	3984.888	905.0431	10958.44	284.7146	1	112721.7	139864.9	11243.16	128621.7	136245.7	3.5997	0
0.193	10.0594	199.1081	86.855	8.635	144.1203		6.1412	3.4553	4.4025	11437.84	5169.401	1341.961	2033.521	3657.961	833	10059.4	286.5443	1	109349.3	135959.2	10345.94	125249.3	132264.9	4.3302	0
-1.0623	10.7627	165.923	88.6213	8.1448	150.7787		4.5233	3.0204	3.7613	12134.15	5519.959	1376.779	1955.424	3913.721	966.2628	10762.74	284.9784	1	112294.3	139242	11047.72	128194.3	135685.7	3.7025	0
0.9444	10.5758	149.9943	87.3002	6.5466	144.6005		6.2727	2.8594	3.5237	11677.01	5075.908	1332.675	2187.67	3845.754	833	10575.83	284.4688	1	113675.4	140435.7	10860.3	129575.4	136939.8	3.4724	0
1.6317	12.6072	155.4332	87.7232	10.0345	149.3911		7.7154	2.9016	3.5861	11651.84	4828.332	1308.065	2179.06	4101.365	833	11223.88	284.5								

TABLE 5

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Mandate 10kg, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding	
0.1446	11.0513	129.4048	89.6324	9.3427	142.034		6.6343	2.6227	3.1746	11403.87	5062.563	1331.349	1919.399	3855.562	833	10587.665	283.6779	0.958	115520.4	142291.7	10871.33	131420.4	138792.2	3.1325	0	
-0.7624	11.0327	168.4117	87.0633	7.1466	147.3579		5.5677	3.0418	3.7928	11776.35	5293.664	1354.303	1842.48	4011.893	872.0111	11032.71	285.0095		111951.8	139169.6	11317.72	127851.8	135526.4	3.7317	0	
0.0444	11.9233	83.7007	87.7195	8.4238	143.2361		6.3707	2.9291	2.2873	12352.18	5495.783	1339.299	2375.691	3744.767	957.1181	10226.05	281.7039	0.8544	108544.9	145847.9	14054.77	105077.6	136353.7	143602.2	2.2692	0
2.5375	12.3662	152.2011	88.1464	6.0733	133.9786		9.0662	3.2371	3.5847	10594.11	4535.648	1275.015	2198.739	3345.71	833	9059.512	940.882	0.7326	113782	139682	10000	126682	136463	3.5599	1	
0.1615	11.8938	150.3578	88.1326	6.4223	151.9818		5.5044	2.8291	3.4793	11424.16	5307.38	1355.665	2150.798	4325.032	877.7237	11893.84	284.1894		113050	141128	12178.03	128950	137027.9	4.232	0	
-0.4206	10.812	163.9079	85.891	8.06	149.6393		5.8684	3.0017	3.7336	11646.57	5225.516	1347.832	1891.727	3931.623	844.8769	10811.97	284.9089		112408.9	139405.8	11096.88	128308.9	135833.7	3.6753	0	
-0.5989	12.2292	127.0992	87.8619	8.1601	153.1035		5.6834	2.5667	3.0775	12202.62	5268.602	1351.814	1871.662	4446.969	861.5729	12229.17	283.2614		114954.6	143367	12512.43	130854.6	139339.3	3.0321	0	
0.5434	11.1105	182.3391	86.6781	7.2691	146.1791		6.8812	3.1772	3.9926	11607.93	5009.609	1326.036	1997.644	4040.178	833	11110.49	285.4456		110843.8	138139.8	11395.94	126743.8	134471.4	3.9253	0	
2.3546	10.7024	110.7709	86.558	8.0088	143.3833		7.3011	2.7704	2.8518	11262.65	4918.098	1317.001	2493.251	3299.298	833	9002.067	997.933	0.8411	116761.6	143571.6	10000	135761.6	140352.6	2.8461	1	
0.1465	12.4047	154.1827	85.016	6.7383	154.8781		6.3171	2.8568	3.52	12198.71	5131.288	1338.175	1983.438	4510.812	833	12404.74	284.2094		112500.7	141089.6	12688.95	128400.7	137005.1	3.4604	0	
0.4543	11.4135	174.708	86.5757	9.9876	139.4692		6.4344	3.1204	3.9086	10681.68	4669.95	1292.354	1656.097	3828.285	833	10493.24	285.3516	0.9194	111688	138366.6	10778.59	127588	134897	3.8472	0	
-1.8252	11.4887	195.5392	87.2504	10.6749	141.863		7.1648	3.2895	4.1581	10863.23	4947.622	1319.933	1182.963	4177.712	833	11488.71	285.7552		109723.3	137398.3	11774.46	125623.9	133608.1	4.0837	0	
2.0675	12.2072	123.2221	88.2008	8.7521	144.5796		9.1075	2.4048	4.4758	11518.9	4526.702	1378.126	2040.102	4438.97	833	12207.17	286.3367		107585.8	135979.3	12493.51	123485.8	131957.6	4.3866	0	
-1.0463	11.894	84.134	87.1066	10.1336	151.4765		4.7583	2.0521	2.3133	11659.6	5469.041	1371.722	1913.539	3556.243	945.055	9691.891	308.1088	0.8149	120672.5	146572.5	10000	136572.5	143535.5	2.2956	1	
-0.3532	11.4236	149.9469	86.9043	7.3411	143.896		6.8396	2.8226	3.4747	11440.63	5018.092	1326.932	1715.849	4152.958	833	11420.63	284.2433		113393.7	140988.6	11704.98	129270.4	137220.8	3.4208	0	
0.8366	11.7353	159.184	86.4625	7.2443	141.7917		7.9315	2.9624	3.6756	11014.88	4781.518	1303.435	1881.418	3815.505	833	10435.5	284.8322	0.8892	112366.5	139581.8	10720.33	128861.5	136130.9	3.6208	0	
0.3648	12.3056	174.2427	86.9685	10.8689	156.8135		7.3117	3.1126	3.8974	11796.71	4915.791	1316.772	1854.373	4474.772	833	12305.63	285.0507		110573	139063.6	12590.68	126473	135010.7	3.2823	0	
-1.5968	10.2405	134.2691	87.3634	5.9804	143.5712		6.1916	2.6888	3.2721	11684.25	5483.495	1373.158	1750.719	3723.804	951.0757	10240.46	283.9425		115231	141655.4	10524.41	131131	138267.6	3.2267	0	
0.4429	11.2156	127.9384	86.8325	7.444	151.9554		5.8741	2.5904	3.1271	12066.69	5227.284	1347.71	2166.929	4078.406	844.3638	11215.62	283.4938		115359.7	142758.8	11499.11	131259.7	139057.2	3.0838	0	
-1.0882	12.5465	122.5569	87.2923	7.9812	154.5662		5.4991	3.4059	4.3299	12258.82	5308.53	1355.78	1751.943	4562.366	878.2027	12546.51	285.9588		108136.9	136689.4	12832.47	124036.9	132738.6	4.2433	0	
-0.8615	10.7727	140.3135	87.3504	9.0821	143.426		5.6683	2.3257	2.7314	11225.71	5271.875	1352.139	1790.677	3546.083	862.9358	9710.343	289.6755	0.9014	118450.3	143450.3	10000	134350.3	141131.3	2.7033	1	
1.1875	11.5956	145.4251	87.3859	7.525	153.5799		5.9133	3.4271	3.2265	11265.03	5219.275	1346.914	2397.788	4058.021	841.0278	11159.57	284.1723		113806.2	141149.9	11443.74	129706.2	137466.2	3.3758	0	
0.1761	11.9695	95.7469	87.4469	6.1773	156.0238		4.9711	2.1641	2.4985	12679.99	5422.923	1367.141	2262.129	4299.944	925.8475	11821.24	282.029	0.9876	118290.9	146294.2	12103.27	134190.9	142398.2	2.4708	0	
-0.3762	11.7707	124.2556	87.8456	9.1986	142.6333		6.5345	2.5651	3.0898	11170.78	5084.199	1333.498	1772.738	3792.244	833	10372.5	283.512	0.8812	1161125	142668.5	10656.01	132012.5	139238.4	3.0506	0	
-0.4909	12.5723	138.6661	86.4562	6.8676	154.5991		5.7925	2.6826	3.2632	12304.34	5244.961	1349.466	1884.424	4571.761	851.7263	12572.35	283.6257		113747.3	142503.3	12855.97	129647.3	138365	3.2109	0	
0.169	11.8237	179.7868	87.3349	6.458	150.8901		5.2861	3.1319	3.9257	12510.86	5384.678	1360.363	2196.854	4299.541	897.4234	11823.74	285.1866		110735.7	142503.3	12855.97	129647.3	138365	3.2109	0	
2.1406	10.9484	109.1324	88.2343	6.6595	159.0494		5.0005	2.3609	2.7887	12774.41	5416.566	1366.51	2884.892	3981.247	923.1996	10948.43	282.7661		117331.1	1444622	11231.2	133231.1	140849.9	2.7554	0	
-1.4248	11.4213	149.0991	87.8476	7.4443	149.5911		6.5987	2.8277	3.4771	11990.74	4850.144	1320.671	200.216	4152.142	833	11421.25	284.5876		1133970.4	142327.2	10448.05	131879.2	138964	3.1009	0	
-0.4622	11.6006	87.659	87.809	9.3655	153.9028		4.679	2.0628	2.349	12074.68	5486.221	1373.428	1802.509	4056.307	952.2112	11139.98	281.7608	0.9603	119538	146959.7	11421.75	135438	141813	3.2868	0	
0.9005	11.5569	121.1989	87.5941	5.7562	149.3419		6.269	2.5137	3.014	11950.03	5141.714	1339.211	2235.309	3998.793	833	10976.96	283.2691	0.9498	1161163	143276.6	11260.23	132016.3	139519.9	2.9747	0	
-0.3408	12.2764	161.1158	87.2954	6.6649	138.8988		7.7531	2.9457	3.6512	11194.48	4820.16	1307.273	1540.333	426.717	833	11800.71	284.5825		0.9613	12201.7	140187	12085.3	128101.7	136296.8	3.5904	0
1.5775	12.0579	117.9955	87.0834	7.979	151.8405		6.2584	2.4844	2.9708	12011.25	5144.007	1339.439	2453.122	3893.686	833	10495.56	283.2277	0.8804	116663.6	143342.4	10778.78	132563.6	139872.7	2.9342	0	
-0.2882	11.2293	175.0977	87.8592	8.0357	147.5501		6.2538	3.1032	3.8834	11659.93	5145	1339.537	1857.011	4063.66	833	11229.31	285.1831		111344.5	138759	11514.48	127244.5	135052.5	3.8187	0	
0.7397	11.4585	152.9229	86.062	7.6593	148.0587		7.2972	2.8687	3.5376	11608.19	4918.936	1317.084	1977.275	4159.897	833	11439.44	284.381	0.9983	113038.1	140662	11723.82	128938.1	136888.1	3.4819	0	
-0.1704	11.1535	108.5236	86.3435	6.1232	142.3161		4.2523	2.4523	2.8133	11161.89	5166.46	1341.669	1914.497	3504.263	833	9571.547	282.4531	0.8582	117987.4	143887.4	10000	133887.4	140668.4	2.7882	1	
-1.1054	10.4511	126.5933	87.4496	9.0069	150.2937		4.935	2.5919	3.1293	11789.43	5430.744	1367.918	1859.256	3800.411	929.1047	10451.13	283.592		115851.1	142485.8	10734.72	131751.1	139030.3	3.0888	0	
-1.9839	11.1427	176.8733	86.6972	7.3403	149.6646		4.738	3.1232	3.9129	11861.96	5472.619	1372.077	1616.815	4051.902	946.5459	11142.74	285.2621		111244.8	138572.8	11428	127144.8	134894.1	3.8477	0	
2.1684	12.5879	122.421	86.587	8.227	151.8887		6.0562	2.5512	3.0692	11901.99	5079.452	1333.027	2582.599	3671.912	833	9986.836	283.5115	0.7934	116475.7	142646.1	10270.35	132375.7	139340.1	3.0319	0	
-1.8132	11.3066	162.5516	88.1891	7.8722	149.9614		6.1628	2.9741	3.6929	12044.46	5003.613	1374.858	1697.272	4111.488	958.2052	11306.6	284.7461		112302.5	139793.8	11591.34	128202.5	136062.5	3.6333	0	
0.9141	11.0044	126.6943	87.4612	8.3635	145.9711		6.6084	2.5988	3.1407	11513.33	5083.151	1331.904	2170.794	3707.481	833	10164.38	283.6529	0.9237	115							

TABLE 5

10 BG Ethanol

S146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Mandate (Orig. Tax Credit & Import Tariff)	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
0.3389	11.4595	117.7222	86.1516	8.9666	138.6209		7.2983	2.7605	2.9859	10699.46	4918.711	1317.062	1848.809	3379.877	833	9198.478	801.5222	0.8027	116995.7	142895.7	10000	132895.7	139676.7	2.9702	1
0.6669	12.5478	126.9916	86.5203	8.9648	142.257		7.3034	2.7515	3.1587	10904.78	4917.597	1316.951	1952.742	3482.487	833	9444.024	555.9756	0.7526	116124.6	142024.6	10000	132024.6	138805.6	3.13	1
1.1521	11.5121	115.9075	87.1575	7.1304	151.4003		7.2874	2.7324	2.8722	12394.62	5224.456	1347.488	1947.885	4081.303	843.2636	9122.522	11449.85	0.9742	117470.3	144106.2	11499.85	132923.2	131940.7	2.8362	0
-2.3409	10.6727	154.0941	87.333	7.5248	145.4499		6.6825	2.9015	3.5859	11608.1	5485.467	1373.353	1514.409	3880.971	951.8969	10672.67	284.5958	1	113822.4	140139.7	10957.27	129182.4	136612.5	3.5324	0
0.2252	11.2116	134.0247	86.7096	8.5432	147.6981		6.7222	2.6671	3.2402	11545.05	5043.532	1329.459	1927.634	4009.42	833	11020.89	283.7714	0.983	114887.9	142092.6	11304.66	130787.9	138453.6	3.1946	0
0.9119	11.599	129.3947	88.2526	7.9248	142.4478		6.7801	2.6328	3.1895	11442.52	5030.976	1328.212	2135.781	3712.552	833	10150.91	283.7659	0.8752	115728.2	143262.9	10434.67	131628.2	137704.8	3.1487	0
-0.4639	10.847	141.1574	87.7439	8.3074	140.6912		6.9006	2.754	3.3684	11176.01	5004.873	1325.619	1671.423	3939.1	833	10832.32	284.0838	0.9986	114331.8	141068.2	11116.41	130231.8	137769.8	3.3201	0
0.6994	10.4302	112.2943	87.8905	8.1593	150.2209		6.5681	2.413	2.8654	11977.3	5274.082	1352.358	2292.197	3792.804	863.8553	10430.21	282.9664	1	117266.6	143879.8	10713.21	131666.6	140431.2	2.8317	0
-0.2906	10.7926	150.2511	88.7597	8.706	155.8636		5.1285	2.8566	3.5196	12603.17	5606.568	1385.382	2282.29	3924.597	1002.336	10792.64	284.4297	1	113555.6	140532.7	11077.07	129455.6	136967	3.4674	0
0.4458	11.0903	128.9464	87.7404	8.7274	155.4888		5.3752	2.6	3.1412	12285.64	5335.363	1358.445	2267.612	4032.843	889.3788	11090.33	283.5408	1	115367	142640.8	11373.87	131267	138979.6	3.0981	0
-0.2179	12.7929	179.7756	88.2016	6.6024	147.3722		6.7694	3.1036	3.8841	12025.09	6033.291	1328.442	1776.383	4651.972	833	12792.93	284.9477	1	110327.3	139305.1	13077.88	126227.3	135095.4	3.8108	0
-0.749	10.4246	149.1943	87.7826	6.6602	139.8773		5.9839	2.8545	3.5165	11339.58	5203.493	1345.347	1763.538	3790.747	834.4548	10424.56	284.4731	1	113812.7	140421.7	10709.03	129712.7	136974.4	3.466	0
0.5886	11.777	166.3276	88.1997	6.6822	150.8658		5.9231	2.9999	3.7311	12281.16	6216.662	1346.655	2194.119	4282.529	839.9398	11776.96	284.7629	1	111794.6	139756.3	12061.72	127694.6	135873.6	3.668	0
-0.2772	11.5098	137.3633	87.8329	9.0798	141.1559		7.0192	2.7158	3.3121	11116.46	4979.162	1323.068	1707.48	3871.735	833	10613.89	283.9652	0.9222	114773.7	141571.6	10897.87	130673.7	138063.6	3.2662	0
-2.2293	11.3509	146.876	87.5983	8.842	151.5634		5.8061	3.4437	11936.72	5242.018	1349.173	1955.415	4127.575	850.5005	11350.95	284.1837	1	113593.2	141128.2	11635.13	129493.2	137383	3.391	0	
0.8382	11.7908	137.6917	87.4147	8.9581	148.8938		6.2955	2.7073	3.2995	16777.57	4992.316	1324.372	2076.509	4049.373	833	11111.99	283.8928	0.9424	114513.5	141809.4	11395.88	130413.5	138147	3.2519	0
-0.093	12.7198	146.6431	87.8146	8.2887	152.2849		6.6049	2.7674	3.3884	12110.6	5068.947	1331.983	1849.278	4625.391	833	12719.83	283.8793	1	112989.9	141893.6	13003.71	128889.9	137077.8	3.3315	0
-0.1923	10.7691	140.3076	87.0899	9.1814	139.0306		7.19	2.7658	3.8837	10831.66	4942.158	1319.39	1700.454	3634.657	833	9965.711	284.2372	0.9256	114807.3	140957.2	10249.95	130707.3	137657.8	3.3406	0
-2.1005	12.1042	141.9913	88.2229	10.621	151.2343		5.571	2.7316	3.3355	11736.07	5292.959	1354.233	1413.644	4041.512	817.7176	11204.16	283.8443	1	113672.5	141960.5	12388	129572.5	137972.8	3.2828	0
3.1959	10.9996	172.9401	87.7649	9.7645	152.7645		7.8889	3.0883	3.8614	11974.88	4790.741	1304.351	2644.92	3999.87	833	10999.64	285.1685	1	111609.8	138794.6	11284.81	127509.8	135162	3.7986	0
0.7113	10.2108	128.6441	87.3121	9.6473	150.7888		6.6222	2.6223	3.1741	11710.99	5195.223	1344.526	2223.204	3713.034	833	10210.85	283.7234	1	115770.8	142165.3	10494.57	131670.8	138877.1	3.1334	0
-0.3415	12.0344	129.2578	87.4656	6.0269	142.4263		6.0629	2.6119	3.1588	11382.54	5055.511	1330.649	1757.351	4004.033	833	10970.45	283.959	0.9116	115352.7	142506.7	11254.04	131252.7	138884	3.1156	0
-0.7555	11.4062	146.4346	88.1835	8.9597	150.7349		5.5059	2.7988	3.4344	11947.06	5307.062	1355.634	1857.062	4147.708	877.5913	11406.2	284.1566	1	113606.2	141196.6	11690.35	129506.2	137433.5	3.3818	0
-0.6313	12.6611	143.1431	88.8646	9.4437	143.7195		5.2443	2.7669	3.3875	11311.21	4930.395	1318.222	1549.112	4098.471	833	11212.96	284.0765	0.8856	113981.3	141378.3	11497.04	129881.3	137677.4	3.337	0
-0.2287	11.8063	165.8366	86.5	8.4843	150.15		6.6525	2.9941	3.7225	11144.06	5058.62	1330.958	1796.298	4293.181	833	11806.25	284.7397	1	118280.8	139811.8	12090.99	127720.8	135919.7	3.6596	0
1.5308	11.9985	138.1302	87.7058	8.3878	144.2096		7.1873	2.738	3.3447	11411.3	4942.759	1319.45	2252.4	3939.182	833	10071.59	284.1927	0.8394	114958.7	141211.4	10355.72	130855.7	137877.9	3.3002	0
0.0813	11.5528	133.3642	88.9438	8.1204	151.908		5.4014	2.6466	3.21	12277.73	5329.698	1357.882	2100.11	4201.818	887.0193	11552.8	283.257	1	114968.6	142435	11836.44	130598.6	138624.9	3.1632	0
-0.192	11.3118	163.5792	86.9385	8.4205	144.9044		6.1749	2.9843	3.9843	11636.74	4675.738	1336.214	2076.509	4049.373	833	11111.99	283.8928	0.9095	110475.2	139351.7	12979.48	126372.2	135173.6	3.7965	0
-0.062	11.2353	194.4561	87.8082	7.7408	150.8538		5.1164	2.1742	2.5132	12078.47	5391.456	1364.016	2237.28	3770.974	912.7415	10336.49	282.2072	0.92	112021.9	140179.7	10618.7	135101	142420.5	3.485	0
0.4598	12.2356	178.4097	86.6243	8.1702	150.022		7.3844	3.1066	3.8885	11769.85	4900.055	1315.209	1870.267	4449.322	833	12235.64	285.0419	1	110665.1	139085.7	12520.68	126565.1	135055.3	3.8182	0
0.4369	12.3308	117.3355	88.0646	8.2259	138.2933		6.8301	2.6226	2.9812	11041.16	5020.148	1327.137	1973.795	3485.08	833	9461.164	283.836	0.7673	117072.3	142972.3	10000	132972.3	139753.3	3.9561	1
-0.0574	12.9817	186.443	86.7643	9.2483	157.7654		6.5771	3.1608	3.9685	12229.34	5074.957	1332.58	1866.192	4270.611	833	12981.68	285.1021	1	109760	139262.8	13266.78	125660	134656.2	3.8914	0
0.7817	10.7786	129.9235	87.2083	5.9525	145.4353		5.9525	2.6244	3.1772	11951.99	5200.966	1345.096	2251.03	3914.939	833.4022	10778.61	283.66	1	115381.3	142343.6	11062.27	131281.3	138782.7	3.1342	0
0.054	11.4812	186.1037	85.2778	8.5563	140.0166		6.1681	3.2097	4.0405	10735.28	4632.374	1288.657	1493.66	4085.227	833	11227.25	285.5345	0.9779	110514.8	137927.6	11512.78	126414.8	134221.6	3.9711	0
0.4545	12.8267	144.9317	86.7119	10.1126	136.7439		8.1331	2.9783	3.4694	10466.28	4737.818	1299.095	1718.816	3475.551	833	9411.929	285.0712	0.7338	114465.7	140365.7	10000	130365.7	137146.7	3.4344	1
0.7828	11.6171	139.2007	87.9906	8.7982	155.2657		5.2918	2.7123	3.3069	12297.26	5217.376	1346.726	2266.532	4224.384	840.2371	11617.06	283.8442	1	114143.3	141944.2	11900.9	130043.3	138113.3	3.257	0
-1.287	12.0672	173.3398	86.7486	6.7942	157.6706		4.391	3.062	3.8227	12606.46	5548.61	1379.625	1909.968	4388.064	978.1959	12067.18	284.9224	1	111122	139379.1	12352.1	127022	135398	3.7553	0
-0.2475	11.3928	155.9598	85.7116	5.2725	153.444		5.0588	2.9023	3.5872	12342.89	5403.927	1365.25	2109.044	4144.731	917.9354	11094.04	284.4972	1	112802.8	143085.3	11682.51	128702.8	136624.7	3.5302	0
-0.5992	11.6921	119.5871	85.8159	7.4882	152.5615		5.7921	2.4778	2.9611	11949.79	5245.046	1349.474	1849.848	4251.663	851.7616	11692.07	283.0676	1	115925.2	143800.4	11975.14	131825.2	139945.6	2.9208	0
-0.264	12.6945	176.3882	86.1797	8.3336	151.7788		7.1327	3.0381	3.8687	11815.39	4954.587	1320.625	1688.991	4616.197	833	12694.55	284.2381								

TABLE 5

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Mandate 10kg, Tax Credit & Import Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding
-1.4278	10.5225	126.6579	87.7199	9.3074	153.0253		4.3922	2.591	3.128	11999.1	5548.364	1379.601	1864.665	3826.373	978.095	10522.53	283.5804	1	115810.9	142517	10806.11	131710.9	139038.5	3.0873	0
-1.4412	12.9553	139.6704	87.4463	7.9642	154.6597		5.5026	2.6944	3.266	12292.69	5307.778	1355.705	1638.301	4711.014	877.8984	12955.29	283.5828	1	113481.6	142620.5	13238.87	129381.6	138358.9	3.212	0
-1.0725	12.0545	131.8401	87.4919	8.4474	145.9247		6.5115	2.6198	3.1702	11558.76	5098.42	1351.587	1651.939	4379.532	833	11464.2	283.5804	0.9921	11568.7	142620.5	13238.87	129381.6	138358.9	3.212	0
-0.4006	12.6671	120.8179	88.2388	8.2949	149.9703		6.1559	2.4839	2.9701	11989.21	5166.214	1341.644	1840.63	4405.716	833	12096.79	283.0407	0.955	115610.3	143890.1	12379.83	131510.3	139905	2.9283	0
-0.6136	12.0834	183.2011	85.1098	8.5363	144.2686		8.1234	3.1569	3.9627	11047.15	4739.927	1299.304	1378.973	4393.949	833	12096.79	283.0407	0.955	115610.3	143890.1	12379.83	131510.3	139905	2.9283	0
-1.0971	11.7787	141.5109	88.4218	9.2789	146.5411		7.1579	2.7565	3.372	11597.69	4949.128	1320.083	2119.459	3973.985	833	10895.8	284.0835	0.925	114271.2	141351	11179.89	130171.2	137522.2	3.323	0
-0.5963	10.9873	180.5706	87.7148	7.7647	154.6256		4.5281	3.1638	3.9727	12362.33	5518.908	1376.675	2103.559	3995.366	965.8252	10987.26	285.4201	1	111028.8	138201.5	11272.68	126928.8	134572.8	3.9607	0
-1.5568	11.0676	170.2535	86.0894	9.3031	150.3307		5.5516	3.0595	3.8189	11543.33	5297.153	1354.65	1591.492	4024.57	873.4643	11067.57	285.0628	1	111791.2	139043.8	11352.63	127691.2	135389.4	3.7569	0
1.6156	11.7991	110.9294	87.4567	5.8327	154.4111		5.9323	2.3955	2.8397	12141.04	5124.665	1346.457	2530.542	3808.267	839.1078	10417.35	282.9395	0.8829	117411.9	144012.2	10700.28	133311.9	140567.8	2.8067	0
-1.4652	10.8004	118.398	87.9068	7.8123	154.6795		3.823	2.4803	2.9646	12388.98	5671.693	1391.85	1966.544	3927.429	1029.46	10800.43	283.1785	1	116494.9	143478.6	11083.61	132349.9	139910.7	2.9272	0
0.7393	9.9865	115.1191	85.8254	5.7574	148.1279		6.0149	2.4651	2.9423	11259.122	5176.782	1344.68	2233.611	3581.15	833	9844.59	283.2378	0.9858	117244.8	143272.7	10127.83	133144.8	140012.5	2.9085	0
-0.1592	11.0469	84.9758	87.1487	7.7372	148.6025		4.9376	2.1117	2.3271	11800.75	5430.195	1367.864	2161.548	3510.269	928.8762	9593.987	406.0133	0.8685	120580.6	146480.6	10000	136480.6	143261.6	2.3124	1
0.352	11.4235	186.7499	87.6878	6.3506	146.3023		4.0229	3.21	4.0409	11607.18	4892.896	1323.417	1912.057	4154.013	833	11423.54	285.5046	1	110385.7	137994.7	11709.04	126285.7	134225.6	3.9704	0
0.7078	12.5452	160.4402	87.4757	6.0757	145.3321		7.5736	2.9223	3.6167	11829.72	4659.06	1311.377	1911.853	4512.669	833	12406.56	284.2027	0.9889	111899.3	140580.3	12690.98	127889.3	136495.1	3.554	0
-1.4972	10.5639	151.308	86.2837	6.9373	144.4386		5.5199	2.6741	3.5455	11293.65	5304.03	1355.333	1514.521	3841.432	876.3287	10593.94	284.5195	1	113568	140316.5	10848.59	129468	138824.4	3.4935	0
-0.8245	11.4756	135.3848	87.3418	7.8113	156.8966		4.387	2.7651	3.1443	12593.65	5549.479	1379.711	2026.751	4172.947	978.5579	11475.61	284.1015	1	113667.2	141266.9	11759.71	129567.2	137541.5	3.362	0
-1.1499	11.7644	99.8076	87.3774	7.1434	151.2356		5.4608	2.2552	2.6327	12093.4	5316.819	1356.603	2475.798	3660.528	881.6552	9992.928	282.5138	0.8494	118793.8	144969.3	10275.44	134693.8	141661.6	2.6059	0
-0.2345	12.3592	145.6403	87.9104	6.9651	153.3596		5.5943	2.7651	3.3857	12413.58	5287.898	1353.703	2006.099	4494.248	869.6094	12359.18	283.9212	1	113240	141783.2	12643.11	129140	137113.3	3.3304	0
-0.2967	12.2285	101.2862	86.2706	6.7242	146.7223		5.7231	2.3177	2.67	11379.19	5260.002	1350.96	1959.494	3547.344	857.9909	9644.911	355.8086	0.7887	118764.2	144664.2	10000	134664.2	141445.2	2.6457	1
2.1246	10.3951	149.7692	86.5577	6.8201	152.8039		7.5426	2.8616	3.527	11909.18	5036.468	1328.758	2528.925	3780.032	833	10395.09	284.5009	1	113776.3	140355.9	10679.59	129676.3	136918.1	3.4763	0
-0.3229	11.9752	99.2913	87.2974	6.0526	143.2884		5.9114	2.3709	2.6282	1211.57	5219.2	1346.919	1914.399	3488.07	840.9967	9486.012	283.9884	0.7921	118956.2	144856.2	10000	134856.2	141637.2	2.8104	1
2.3777	10.9255	111.456	86.412	9.1635	155.3548		5.8411	2.3995	2.8455	12466.98	5234.424	1348.419	2792.65	3842.148	847.3374	10554.36	282.9375	0.966	117290.2	144027.5	10837.3	133190.2	140539	2.6119	0
1.423	11.2133	118.4159	86.6926	6.2523	151.2079		6.2523	2.4951	2.9865	11865.96	5145.332	1339.57	2404.3	3741.161	833	10251.67	283.2917	0.9142	116740.9	143175.8	10534.96	132640.9	139784.6	2.9504	0
2.2125	11.9398	199.5849	86.8535	8.189	148.5569		8.7009	3.3122	4.1916	11646.04	4614.805	1286.877	2167.832	4341.527	833	11939.32	285.7561	0.9999	109256.8	137318.7	12224.95	125156.8	133446.5	4.1134	0
-0.4424	10.7809	157.3439	89.325	9.0312	147.3313		6.0274	2.9335	3.6331	11829.93	5194.074	1344.411	2136.107	3920.337	833	10780.93	284.687	1	112961.7	139927.3	11065.62	128874.7	136365.3	3.5778	0
-1.1006	10.9713	172.2722	87.9745	7.4191	149.8054		4.7694	3.0825	3.8528	12067.64	5466.621	1371.482	1893.933	3989.581	944.0476	10971.31	285.1533	1	111674.1	138830.6	11256.46	127574.1	135207.1	3.7903	0
-2.7875	11.4904	177.6193	86.6349	8.2488	142.4072		5.7636	3.1205	3.9089	11191.23	5251.211	1350.086	1155.286	4178.314	854.3294	11490.37	285.2003	1	111040.5	138716.1	11775.57	126940.5	134925.5	3.8462	0
-0.4698	10.8309	132.1739	87.0866	6.4335	153.873		6.1997	2.4782	3.2113	12102.59	5462.793	1371.1	2228.82	3971.634	942.4869	10930.87	283.2773	1	116131.2	143254.8	11223.61	132023.1	138641.9	2.9765	0
-0.2906	11.6059	198.5578	86.4837	9.055	152.8093		6.5967	3.3123	4.1918	11831.83	5070.708	1332.158	1973.632	4220.334	833	11605.92	285.811	1	109470.3	1373262	11891.73	125370.3	134344.1	4.1156	0
-1.8621	10.4557	120.173	87.0422	8.716	149.6503		4.7295	2.5127	3.0124	11721.53	5475.268	1372.341	1722.207	3802.068	947.6491	10455.69	283.3266	1	114668.8	143107.8	10739.01	132368.8	139650.9	2.9749	0
-0.0346	11.8626	133.8502	86.8302	7.7312	153.376		5.9067	2.6448	3.2074	12131.9	5220.219	1347.008	2007.586	4133.663	841.4212	11862.58	283.5925	1	114508.9	142555.1	12146.17	130408.9	139645.2	3.1594	0
0.5124	12.5642	151.9083	87.7828	8.3142	153.8872		6.6472	2.8283	3.4781	12229.2	5059.78	1331.073	2034.544	4568.802	833	12564.21	284.096	1	112617.7	141366.1	12848.31	128517.7	137320.3	3.4191	0
1.0936	11.2576	153.3982	87.8677	9.1791	155.9715		5.9062	2.8786	3.5522	12273.17	5220.317	1347.018	2368.704	4093.671	841.4621	11257.6	284.4387	1	113079.6	140521.6	11542.03	128979.6	136806.3	3.4969	0
-0.0237	11.0507	163.7249	88.2075	8.0219	145.6689		6.2517	2.9932	3.7212	11680.57	5145.472	1339.584	1942.072	4018.44	833	11050.71	284.8463	1	112319.5	139555	11335.56	128219.5	135906.1	3.662	0
0.8047	10.5179	137.4971	87.4312	10.1587	138.5783		7.7312	2.9082	3.343	10704.56	4823.769	1307.632	1919.229	3427.934	833	9381.871	618.1288	0.892	115131.7	141031.7	10000	131031.7	137812.7	3.1222	1
0.2978	11.4398	143.7854	87.4505	8.901	146.3242		7.0853	2.7731	3.3966	11493.7	4964.846	1321.644	1878.244	4093.665	833	11253.55	284.0915	0.9837	113906.4	141344	11537.64	128806.4	137630	3.3457	0
0.2139	11.7131	204.8817	88.9043	9.0533	157.3131		5.1411	3.3661	4.2712	12561.61	5386.091	1363.483	2240.236	4259.299	910.5068	11713.07	285.9694	1	108982.3	136881.3	11999.04	124882.3	133018.9	4.1918	0
0.8342	11.6215	191.3555	86.7038	8.5896	143.3413		8.0177	3.2471	4.0956	11196.99	4762.824	1301.578	1671.599	4225.989	833	11671.48	285.5948	1	109968.8	137775.9	11907.07	125868.8	133943	4.0223	0
0.2787	10.8585	148.2241	87.4287	7.0815	144.6194		6.8596	2.8326	3.4842	11619.75	5013.745	1326.501	2095.976	3948.53	833	10858.46	284.341	1	113700.3	140743.1	11142.8	129600.3	137156.3	3.4326	0
-0.9194	10.9403	121.2283	89.4694	9.3953	153.3038		4.7872	2.5149	3.0158	12104.98	5462.793	1371.1	2228.82	3971.634	942										

TABLE 5

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Mandate (Erg, Tax Credit & Import Tariff)	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Probability of mandate binding	
0.7326	10.0118	164.5963	88.3657	8.3228	148.643		5.5407	3.0308	3.7764	11897.81	5299.52	1354.885	2326.291	3640.667	874.4501	10011.84	285.1232	1	112701.6	13898.86	10296.96	128601.6	135584	3.7212	0	
2.1876	11.5896	110.9485	89.1962	8.4241	148.1232		6.1303	2.44	2.8612	11964.7	5171.763	1342.195	2673.977	3541.767	833	9658.832	341.1677	0.8334	117749.1	143649.1	10000	133649.1	140430.1	2.8319	0	
0.8128	10.9535	157.4027	86.5152	7.447	155.9237		5.3784	2.9298	3.6273	12287.636	5366.685	1358.377	1200.416	3893.066	889.0961	1053.49	284.6456	1	112879.8	140017.9	11238.14	126719.8	136400.4	3.5713	0	
0.2001	12.199	145.0257	86.8969	6.7341	152.0161		6.1074	2.763	3.3817	12232.97	5176.73	1344.689	2042.564	4435.991	833	12198.98	283.9336	1	113366	141764.9	12482.91	129266	137370.1	3.3272	0	
-0.1165	11.9344	168.6233	86.3845	7.1412	152.3559		6.0212	3.0187	3.7859	12073.19	5195.397	1342.543	1958.466	433.782	833	11934.4	284.8014	1	111545.3	139664.5	12219.2	127445.3	135731.1	3.6942	0	
-0.3412	12.1476	100.2139	86.382	9.9095	154.9344		5.4168	2.2523	2.6284	11941.18	5326.361	1357.551	2007.442	3962.198	885.6259	10844.55	282.4167	0.8927	118251	145278	11126.96	134151	141696.2	2.5996	0	
-0.2026	11.4832	206.206	87.9724	7.1944	144.0861		6.7146	3.3849	4.2989	11577.75	5045.172	1329.622	1797.24	4175.718	833	11483.23	286.0694	1	108983.5	136652.8	11769.3	124883.5	132864.3	4.2202	0	
-1.6235	11.4818	135.9973	88.0388	10.1783	142.6131		6.7056	2.6804	3.2599	11103.93	5047.114	1328.815	1339.347	4152.657	833	11418.55	283.765	0.9945	114522.6	142142.9	11702.32	130422.6	138357.9	3.2222	0	
1.5421	10.4654	133.3456	87.9939	9.6155	149.4346		6.7317	2.6756	3.2526	117124.31	5041.456	1329.253	2347.109	3759.626	833	10335.82	283.8861	0.9876	115271.7	141791.4	10619.71	131171.7	138372.9	3.1094	0	
-1.2277	11.2007	156.2198	86.6554	9.3293	152.5334		5.3666	2.9104	3.599	11794.85	5337.245	1358.632	1733.829	4072.982	890.1625	11200.7	284.5512	1	112868.9	140254.2	11485.25	128768.9	136557.1	3.5426	0	
1.0167	11.3578	129.5103	87.3738	7.271	150.4097		6.4098	2.6063	3.1506	12048.25	5111.199	1336.18	2243.37	4122.498	833	11336.55	283.5513	0.9981	115155.5	142675.6	11620.08	131055.5	138935.1	3.1063	0	
-0.0125	11.4365	172.6418	88.7259	7.4319	154.0151		4.8915	3.073	3.8388	12520.5	5440.186	1368.656	2217.699	4158.713	933.0373	11436.48	285.0524	1	111446	139067.6	11721.53	127346	135294.4	3.7743	0	
0.0362	11.1637	203.3431	86.1771	5.9001	137.8909		7.7838	3.3697	4.2764	11069.47	4813.51	1306.613	1654.832	4059.511	833	11163.66	286.0726	1	109307.9	136657.6	11449.73	125207.9	132971.9	4.2004	0	
-0.5732	11.4063	160.829	85.4535	7.0759	142.5128		7.3111	2.9534	3.6625	11169.82	4915.931	1316.785	1554.354	4147.744	833	11406.3	284.664	1	112398.6	139895.9	11690.96	128298.6	136226.2	3.6033	0	
-0.0033	10.019	135.305	86.1107	8.212	142.005		6.1738	2.7133	3.3011	11346.01	5122.335	1341.259	1984.162	3843.258	833	10019.18	284.0535	1	115183.7	141386.7	10303.01	131083.7	138070.2	3.2649	0	
-0.5825	11.7936	136.4009	87.0114	9.8695	150.9261		6.5484	2.6759	3.2533	11642.73	5081.624	1333.243	1704.326	4285.532	833	11793.46	283.7028	1	114311.2	142288.4	12077.17	130211.2	138400.4	3.2043	0	
0.4185	12.2141	129.0959	87.8262	8.3871	138.4873		7.2904	2.7528	3.1969	10842.43	4920.415	1317.231	1875.835	3493.948	833	9491.951	508.049	0.7771	115930.6	141830.6	10000	131830.6	138611.6	3.1656	1	
1.3368	11.7194	185.1742	85.6773	9.2647	151.5671		8.2547	3.1864	4.0061	11481.37	4711.485	1296.479	1976.827	4261.576	833	11719.33	285.3807	1	110378.6	138283.3	12004.71	126278.6	134419	3.9349	0	
1.0652	11.8766	150.9342	86.9181	7.5291	143.8729		7.5382	2.8614	3.5268	11421.92	4866.729	1311.899	2033.225	3975.064	833	10894.38	284.4318	0.9173	113451.4	140530.2	11178.81	129351.4	136931.8	2.9788	0	
-0.6454	11.0121	119.8838	87.5554	9.2299	145.7232		6.1713	2.5022	2.9971	11413.83	5162.876	1341.31	1759.199	3591.645	833	10760.35	283.2563	0.9771	116349.2	143292.8	11043.61	132249.2	139737.9	4.3439	0	
0.8171	11.5302	119.0381	87.395	8.5355	150.6366		6.2122	2.4912	2.9808	11879.14	5154.021	1340.433	221.094	3930.641	833	10782.39	283.217	0.9351	116421.3	143386.9	11065.61	132321.3	139824.8	2.943	0	
-0.1882	10.6139	182.1387	88.4642	8.1387	139.6491		7.5435	3.1898	4.0111	10903.04	4865.577	1311.784	1631.094	3859.589	833	10613.88	285.5647	1	111066.9	137866.3	10899.44	126966.9	134357.8	3.9462	0	
-1.2491	10.1179	115.4481	86.9297	5.7696	156.0806		2.9657	2.4603	2.9352	12667.53	5859.319	1410.486	2208.893	3679.223	1107.606	10117.86	283.1903	1	117102.1	143403.2	10401.06	133002.1	140055.1	2.9007	0	
-1.1904	11.4395	227.8693	87.4184	9.2789	139.9052		7.9533	3.569	4.5704	10697.72	4774.188	1302.707	1226.018	4159.803	833	11439.46	286.6813	1	107577.7	135203.8	11726.14	123477.7	131429.2	4.4835	0	
-0.4081	10.7098	119.2489	88.0715	6.1808	144.6685		5.4263	2.4954	2.987	11847.01	5324.3	1357.346	1984.135	3894.458	884.7708	10709.76	283.2995	1	116435.9	143328.9	10993	132335.9	139790.3	2.9493	0	
-0.3787	12.3968	174.4067	88.197	9.8785	150.0875		6.9405	3.0631	3.8243	11754.62	4996.225	1324.761	1690.716	4507.923	833	12396.79	284.8769	1	110899.4	139481.1	12681.67	126799.4	135398.8	3.7551	0	
-0.5683	12.2448	95.2539	86.5727	7.5528	149.7471		5.2346	2.1911	2.5382	11833.01	5365.847	1361.471	1971.232	3830.388	902.0753	10454.98	282.2523	0.8469	118899.2	145620.4	10737.23	134899.2	142170.1	2.5126	0	
1.1726	11.1849	124.7357	87.3695	6.5906	155.0477		5.4312	2.5524	3.0711	12523.04	5223.241	1327.241	2488.98	4667.243	884.3299	11184.92	283.3723	1	115431.2	143057.9	11468.3	131576.7	138353.4	3.0295	0	
1.2407	11.5218	142.2835	86.74	8.4964	152.3558		6.9547	2.7154	3.3646	11920.88	4992.714	1324.411	2205.68	4163.075	833	11446.91	283.9946	1	109335	139494.4	11580.23	11730.91	129849.4	137804.1	3.1338	0
2.315	11.8505	151.1672	87.3087	9.8812	141.3526		8.4173	3.0703	3.5716	10906.42	4676.242	1292.979	2257.328	3444.873	833	9367.444	632.5562	0.7905	113913.5	139813.5	10000	129813.5	136594.5	3.5357	1	
0.6992	11.2029	215.9571	87.4064	7.1732	156.4927		5.0947	3.4779	4.436	12555.91	5396.145	1364.482	2404.8	4073.787	914.649	11202.92	286.4228	1	108439.2	135828.6	11489.34	124339.2	132130.1	4.3549	0	
-1.5558	11.9176	171.1464	88.2251	8.6019	151.7156		5.1214	3.0445	3.7969	12080.09	5390.363	1363.907	1677.87	4333.661	912.2861	11917.57	284.8877	1	11355.7	139458.1	12202.46	127255.7	135530.1	3.731	0	
-1.9888	10.8495	189.1054	87.9574	8.0896	149.7502		4.555	3.2493	4.0988	11852.4	5513.081	1376.096	1652.567	3945.256	963.3982	10849.45	285.7252	1	110450.3	137485.4	11135.18	126350.3	133901	4.03	0	
0.4153	12.6366	226.0506	87.2455	8.9539	141.3683		9.2865	3.5144	4.49	11067.95	4487.932	1274.275	1475.616	4595.131	833	12636.61	286.2927	1	107236.1	136059	12922.9	123136.1	131899.1	4.3973	0	
-1.0069	10.2926	138.5439	86.2981	9.3949	146.2929		5.2615	2.7374	3.3438	11542.97	5340.388	1358.944	1807.388	3742.777	891.475	10292.64	284.0988	1	114815.7	141292.5	10576.74	130715.7	137887.8	3.2984	0	
-0.3409	11.5986	139.1755	88.2902	9.9932	157.0267		5.2315	2.7124	3.3071	12294.71	5366.514	1361.539	2044.621	4217.684	902.353	11598.63	283.8471	1	114154.1	141936.6	11882.48	130054.1	138111.6	3.2574	0	
-0.6818	9.8462	176.6205	86.311	7.9841	144.678		6.31478	3.9489	11332.19	5277.875	1352.735	1853.707	3580.442	865.4348	9846.219	285.5425	1	111893.1	137924.8	10131.76	127793.1	134663.4	3.8901	0		
-0.8133	11.623	199.0813	88.7814	9.56	153.1997		5.2612	3.174	4.1993	12136.69	5360.073	1360.899	1887.5	4226.551	899.6705	11623.03	285.8249	1	109419.7	137228.5	11908.86	125319.7	133395.1	4.1228	0	
-1.0276	11.7863	150.5449	85.9474	6.4679	155.8144		4.8058	2.854	3.4864	12368.16	5458.749	1370.71	1910.025	4285.914	940.769	11786.27	284.2197	1	113082.7	141053.2	12070.49	128962.7	137167.7	3.4306	0	
-0.2798	12.2894	136.3422	87.1707	8.4783	151.9188		6.6311	2.6447	3.2367	11860.51	5063.293	1331.419	1784.255	4446.57	833	12227.33	283.6113	0.								

TABLE 5

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
0.4205	10.4929	184.1007	87.1205	8.0139	147.1587		6.2029	3.2123	4.0442	11641.22	5156.028	1340.633	2093.978	3815.586	833	10492.86	285.6586	1	110969.6	13768.41	10778.52	126869.6	134178.5	3.979
0.9381	11.7229	86.6054	86.2746	6.9964	144.8778		5.5523	2.2614	2.427	11485.67	5297.004	1354.635	2389.721	3168.903	873.4023	8580.315	566.1138	0.7319	120591.3	145637.7	9146.428	136491.3	142693.5	2.4166
0.0028	12.822	141.2355	86.9866	8.7415	147.3592		7.1566	2.7853	3.4146	1153.02	4983.956	1329.810	2491.009	833	131.58	283.2806	0.9754	11783.02	14256.56	1282.56	13529.2	137650.6	3.2592	
0.5926	11.2758	171.2153	87.6983	6.1548	153.8186		5.1513	3.1422	3.9409	12518.44	5383.895	1363.265	2359.395	4100.292	900.5924	11275.81	285.3045	1	111010	138471.1	11561.11	126910	134749.6	3.8743
-0.1064	11.8679	132.3988	87.3343	7.2871	145.4265		6.5599	2.6367	3.1954	11640.99	5057.018	1330.799	1833.965	4184.207	833	11495.19	283.6117	0.9686	114813.9	142492.7	11778.8	130713.9	138701.1	3.1492
-1.1974	10.5843	187.2439	87.6272	8.7215	143.8115		5.8072	3.2396	4.0845	11347.56	5241.776	1349.149	1655.385	3848.837	850.3995	10584.3	285.7353	1	110697.1	137467.1	10870.04	126597.1	133968	4.0177
-0.1128	12.123	161.9905	87.5121	7.2125	150.3663		6.1778	2.946	3.6516	12074.36	5161.485	1341.175	1928.351	4400.351	833	12122.97	284.5376	1	111989.5	140297	12407.5	127889.5	136303	3.5892
0.8821	10.7621	136.9308	85.5072	8.0096	140.4691		7.4034	2.8081	3.3729	10886.02	4895.939	1314.8	2001.597	4388.683	833	9401.188	383.7073	0.8735	115160.7	140845.6	9784.896	131060.7	137695.9	3.3336
0.1004	11.4951	161.9156	86.7282	6.5129	144.2727		6.9568	2.9623	3.6757	11572.89	4992.69	1324.409	1840.759	4140.035	833	11495.08	284.6805	1	112271.3	139955.1	11779.77	128171.3	136159.2	3.6156
0.6591	10.5443	137.1664	87.5935	8.1372	151.8483		5.5456	2.7153	3.3112	12065.3	5298.444	1354.778	2301.773	3834.306	874.002	10544.34	283.9922	1	114823.9	141552.3	10828.33	130723.9	138066.6	3.2656
-1.5781	10.8322	193.7777	87.2955	8.4999	147.5539		5.1292	3.2933	4.1637	11626.59	5369.183	1361.804	1651.166	3938.975	903.4647	10832.19	285.8741	1	110117.6	137135.7	11118.06	126017.6	133556.8	4.0931
-0.1779	11.9793	108.3127	85.7744	7.9433	146.1228		5.9065	2.3739	2.8077	11372.9	5220.589	1347.405	1962.08	3599.613	841.5752	9807.077	282.9338	0.8187	117985.7	143975.7	10900.01	133885.7	140727.7	2.7773
-1.6628	11.0859	133.4481	87.8418	8.1769	154.3716		6.2688	3.2279	3.2353	11279.57	5640.536	1388.755	1874.558	4031.235	1016.483	11085.9	283.7357	1	114910.2	142179.9	11369.64	130810.2	138520	3.1824
-1.8458	10.7201	161.3027	87.2163	7.5097	143.3198		5.3642	2.977	3.6972	11423.53	5337.751	1358.682	1536.504	3898.224	890.374	10720.12	284.8402	1	112661.5	139566.4	11004.96	128561.5	136023.9	3.6404
0.9396	10.3133	180.4966	87.4764	7.8567	149.2045		5.9079	2.1626	4.0004	11879.67	5219.962	1346.983	2319.108	3750.301	841.3143	10313.33	285.5875	1	111317.6	137816.5	10598.92	127217.6	134404.7	2.9301
0.0559	11.7042	138.6724	86.2509	5.9796	155.283		4.6332	2.7041	3.2949	12776.27	5496.148	1374.414	2291.27	4252.998	956.3455	11704.25	283.8062	1	114149.8	142037.9	11988.05	130049.8	138178.9	3.2445
-0.0763	11.3812	178.8065	86.8273	7.6736	158.9597		4.4303	3.1952	3.9306	12723.72	5540.112	1378.781	2289.544	4138.629	974.6568	11381.23	285.2653	1	110996.5	138563	11666.49	126896.5	134807.5	3.8636
-0.5423	11.5704	119.2476	86.241	6.7895	140.3256		6.3913	2.516	3.0772	11020.4	5115.225	1336.58	1748.208	3585.386	833	9785.525	283.4163	0.8457	116885.2	142854.1	10068.94	132785.2	139612.9	2.9819
-1.3323	11.6218	129.7744	87.6218	9.923	141.9058		6.6647	2.6204	3.1713	11025.92	5055.982	1330.696	1440.728	3963.514	833	10872.79	283.6351	0.9356	115350.7	142407.1	11156.42	131250.7	138815.8	3.0219
1.9283	11.567	121.4004	86.8713	8.1153	144.4881		6.8717	2.6388	3.071	11379.32	5011.139	1326.242	2442.738	3364.198	833	9148.343	285.8782	0.7909	116875.9	142376.2	9600.221	132775.9	139285.8	3.1481
0.2748	10.3779	113.1595	88.3681	8.1709	140.112		6.1976	2.479	2.9093	11237.24	5157.186	1340.748	2048.404	4459.9	833	9469.076	353.8153	0.9124	117608.3	143331.2	9822.891	133508.3	140169.2	2.8798
-0.9146	11.7952	136.6938	87.204	9.3888	155.4165		5.3996	2.6792	3.2582	12093.77	5330.086	1357.921	1827.398	4288.18	887.1808	11795.25	283.7134	1	114284.2	142263.1	12078.96	130184.2	138374.9	3.209
-0.5674	10.9072	141.1372	85.6069	8.9301	139.1345		7.2513	2.7767	3.4017	10668.39	4928.889	1318.073	1568.161	3618.266	833	9911.998	284.2809	0.9088	114757.2	140853.5	10196.28	130657.2	137571.3	3.3565
0.4177	10.9833	129.3493	86.0144	8.8354	143.4097		6.8222	2.6541	3.2052	11068.22	5015.354	1326.66	1963.226	3527.984	833	9648.127	304.6123	0.8784	115957.8	141810.6	9952.739	131857.8	138606.8	3.1665
0.4047	12.6117	125.6265	88.0536	7.8077	151.4888		6.3525	2.543	3.0573	12146.8	5123.625	1337.414	2058.998	3917.767	833	12061.2	283.2699	0.9602	115172.3	143416.8	12344.44	131072.3	139443.1	3.013
-0.2285	11.0577	142.6716	88.8789	8.7889	143.9089		5.838	2.7655	3.3854	11813.48	5235.107	1348.487	1959.278	4020.985	847.6221	11057.72	284.0923	1	114094	141335.8	11341.81	129994	137684.9	3.3356
-0.1694	11.3814	129.1532	86.5085	8.9095	152.3783		6.5049	2.6053	3.1491	11687.42	5080.801	1334.134	1953.223	4074.457	833	11200.06	283.545	0.9841	115252.9	142635.6	11483.61	131152.9	138940	3.1054
0.5566	11.523	149.9372	86.9204	8.0267	142.9372		5.1635	2.0267	2.3113	11263.97	5191.491	1344.155	2124.898	4264.734	833	11726.02	285.2775	0.7563	116129.3	143262.3	12013.3	126516.6	134311.9	2.8903
-0.2657	10.8524	98.6333	86.945	6.2972	148.0494		4.2376	2.2204	2.2104	11938.86	5581.861	1382.928	1598.342	3982.678	992.045	10952.37	282.9001	1	118428.8	145563.5	11234.67	134328.8	141494	2.5536
-0.0861	10.8554	131.9535	86.9479	8.189	143.9452		6.6711	2.6513	3.2169	11306.95	5054.601	1330.559	1838.221	3878.573	833	10660.89	283.7643	0.9821	115247.9	142092.6	10944.65	131147.9	138569.5	3.1733
-0.158	11.0025	134.9865	87.2928	7.2296	158.6886		4.1553	2.6788	3.2574	12705.12	5599.679	1384.697	2318.388	4000.893	999.4662	11002.46	283.8123	1	114808.7	141995	11286.27	130708.7	138361.9	2.2114
-1.7278	11.9062	124.6162	88.4164	8.9866	146.2129		6.1754	2.5351	3.0455	11613.66	5161.995	1341.225	1555.947	4319.497	833	11878.17	283.2328	0.9976	115355.1	143416.5	12161.41	131255.1	139501.8	3.0023
-0.1092	11.6351	108.108	87.9066	9.2788	140.2044		6.0289	2.4082	2.8122	11023.97	5193.746	1344.379	1764.072	3486.77	833	9498.161	343.8582	0.8163	118114.6	143856.6	9842.02	134014.6	140688.5	2.7845
-0.5253	10.7566	174.9263	87.8211	8.6496	155.9351		4.444	3.115	3.9008	12345.61	5537.13	1378.485	2143.088	3911.491	973.4148	10756.6	285.2938	1	111559	138509.9	11041.89	127459	134946.5	3.8381
-0.4627	12.0527	138.544	88.7571	7.8379	154.4668		5.0829	2.6941	3.2801	12499.33	5398.7	1346.736	2035.34	4382.799	915.7585	12052.71	283.7289	1	113999.5	142235.9	12336.44	129899.5	138264.8	3.2292
0.2562	11.5036	151.698	87.0557	8.8348	155.6202		5.7585	2.8538	3.5156	12172.74	5252.332	1350.198	2130.281	4183.134	854.7963	11503.62	284.3232	1	113112.5	140800.5	11787.94	129012.5	137005.9	3.4602
0.8817	11.5129	168.6742	87.9342	7.6403	148.3573		6.7678	3.031	3.777	11912.17	5303.635	1328.476	128.564	4186.497	833	11512.87	284.9034	1	111723.6	139421.3	11797.77	127623.6	135623.6	3.7139
0.2659	10.6817	183.7020	86.9712	7.5254	154.9254		5.1575	3.0301	4.0306	12322.58	5382.55	1363.132	2381.605	3884.265	909.0322	10681.73	285.5892	1	110919.4	137786.7	10967.33	126819.4	134256.4	3.9648
0.3269	11.0697	154.4575	87.7166	9.7981	155.8362		5.5894	2.895	3.5763	12232.53	5288.956	1353.835	2186.735	4025.358	970.0501	11069.74	284.5187	1	113074.6	140328.8	11354.26	128974.6	136679.9	3.5212
0.4149	11.728	161.9227	86.5827	7.2335	154.4575		6.0393	3.1552	3.9601	12160.28	5191.491	1344.155	2124.898	4264.734	833	11726.02	285.2775	1	110616	138529.3	12013.3	126516.6	134311.9	2.8903
1.0977	11.52	115.5109	87.8204	7.8868	157.1896		5.6243	2.4306	2.8915	12518.87	5281.38													

TABLE 5

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
0.8899	12.2557	116.3771	88.426	5.6802	152.8848		5.7528	2.4255	2.8841	12650.58	5253.555	1350.319	2334.204	4455.195	855.3056	12251.75	282.8339	0.9997	115963.1	144397.7	12534.58	131863.1	140362.8	2.8443
-0.1019	12.0586	97.2338	87.0938	8.8514	153.3385		5.2745	2.2084	2.5638	11997.58	5387.195	1360.613	2112.499	3866.797	898.4716	10573.81	282.2982	0.877	118774.5	145530.6	10856.11	134674.5	142036	2.5372
-0.3875	10.5968	105.4336	86.8377	5.1732	150.5866		5.1382	2.1369	3.9117	11761.63	5322.691	1362.693	1948.353	3303.366	907.8111	10596.76	285.979	1	11751.63	145376.5	12750.8	134674.5	142036	2.5372
-1.2685	10.1735	100.6166	86.3371	8.0762	150.3394		4.6902	2.2628	2.6439	11765.71	5483.797	1373.188	1856.061	3699.46	951.2015	10173.52	282.5207	1	118614.5	144970.5	10456.04	134514.5	141604.7	2.6164
-1.0104	11.6743	114.7827	86.5689	13.6649	140.1272		6.3187	2.4894	2.9389	10817.82	5130.954	1338.142	1612.943	3500.778	833	9536.678	334.9596	0.8169	117421.8	143193.8	9871.638	133321.8	140015.7	2.908
-1.1385	10.8996	174.4046	86.0366	8.3728	156.0062		5.9844	3.1058	3.8871	12116.02	5203.374	1345.305	2367.429	3963.479	834.4052	10899.57	285.2144	1	111538.6	138623.4	11184.81	127438.6	135023	3.8241
-0.1739	11.2588	167.0214	86.8399	7.4964	151.1944		5.6721	3.0214	3.6277	11991.76	5271.051	1352.057	2009.943	4904.119	862.5926	11258.83	284.9088	1	111964.4	139408.2	11543.74	127864.4	135692.3	3.7013
0.9588	10.1349	152.8599	86.9463	10.4154	143.9439		7.5636	2.9075	3.5947	11016.16	4861.231	1311.352	1994.12	3614.556	833	9934.273	284.7911	0.9802	113717.4	139836.4	10218.99	129617.4	136549	3.5445
2.0953	10.6028	137.7163	86.6277	8.7186	155.7408		6.3935	2.7202	3.3185	12133.63	5114.752	1336.533	2591.791	3855.454	833	10602.78	284.0012	1	114746.9	141533.7	10886.78	130646.9	138029.2	3.2725
1.3525	11.7842	103.3632	89.0689	8.5451	155.4922		5.4739	2.2822	2.6725	12525.17	5313.991	1356.322	2538.016	4034.363	880.4773	11069.17	282.4926	0.9393	117867.6	145119.3	11351.66	133767.6	141465.2	2.642
1.4813	11.7813	192.7484	87.1952	6.6843	145.4738		7.8847	3.2551	4.1074	11712.27	4791.647	1304.441	2097.083	4284.103	833	11781.28	285.5954	1	109803.2	137770.1	12066.88	125703.2	133885.7	4.0328
0.1676	12.7702	158.4488	87.5983	8.8666	141.9579		7.2344	2.9315	3.6301	11176.3	4804.715	1306.739	1688.757	4142.089	833	11333.52	284.6201	0.8875	112617.3	140135.5	11618.12	128517.3	136395.6	3.5722
-0.3706	12.0919	126.6569	88.4879	8.3423	155.5032		6.8246	2.5646	3.0744	12462.89	5365.832	1361.471	2034.481	4397.034	902.069	12091.85	283.2711	1	115061.4	143336.6	12375.12	130961.4	139352.9	3.0296
-1.4267	11.5194	164.7466	87.8617	6.8768	147.8173		5.1321	2.8662	3.5634	11970.96	5388.047	1363.677	1717.047	4168.87	911.3214	11519.4	284.4272	1	112849.7	140553.5	11803.82	128749.7	136753.8	3.5065
-0.0912	12.0155	182.6314	87.0937	7.5417	153.3353		6.6774	3.1535	3.9577	1238.12	5053.236	1330.423	2101.716	4369.283	833	12015.34	285.2277	1	110442.7	138643.5	12300.76	126342.7	134883.8	3.8663
-0.3211	11.0911	93.862	87.5688	6.9092	139.2693		5.5464	2.7277	2.5254	12333.53	5298.271	1354.761	1897.96	3316.613	873.9297	9033.52	458.2689	0.8145	119862.4	145248.8	9491.789	135764	142190.3	2.5089
0.7697	12.2882	144.6735	88.409	9.365	154.0767		6.7209	2.7568	3.3727	12178.84	5043.8	1329.486	2102.109	4468.443	833	12288.22	283.9019	1	113355.5	141827.6	12572.12	129255.5	137780.7	3.9451
-1.1006	11.8839	120.3435	86.3149	4.5039	147.6919		6.1859	2.494	2.985	11492.06	5159.719	1310.999	1610.637	4145.702	833	11384.36	283.1564	0.958	116001.6	143569.2	11667.51	131901.6	139813.4	2.9451
0.8721	11.3204	155.496	86.8591	6.8709	137.6998		7.7829	2.9256	3.6214	11014.35	4813.715	1306.633	1922.49	3736.513	833	10233.26	284.738	0.904	113980.3	139798.6	10518	129280.6	136412.8	3.5691
0.3309	12.7106	186.027	87.1445	7.1228	146.8151		7.7333	3.165	3.9747	11748.39	4824.442	1307.698	1759.21	4622.043	833	12710.62	285.1575	1	109903.1	138798.9	12995.78	125803.1	134615.5	3.8989
0.7442	12.6089	124.1295	86.6842	7.8497	148.7566		7.9993	3.4171	4.3465	11727.14	4766.819	1301.975	1838.289	4585.059	833	12608.92	285.9845	1	108009.3	136804.2	12894.9	123909.3	132653.3	4.2589
-1.9516	11.2203	157.9176	86.6473	5.2688	148.6405		5.2688	2.9279	3.6248	11623.05	5358.866	1360.779	1522.136	4800.104	899.1677	11220.29	284.6062	1	112719.5	140124.4	11504.89	128619.5	136421	3.5676
-0.1661	11.7765	136.465	86.6204	8.4274	150.0071		5.7895	2.6771	3.255	12120.47	5245.608	1349.53	1988.955	4282.378	851.9957	11776.54	283.7087	1	114313.4	142273.6	12060.25	130213.4	138391.4	3.206
0.4071	12.9173	177.4251	86.0162	7.1672	144.1944		6.3047	3.0962	3.8731	11369.59	4700.652	1295.403	1669.326	4469.205	833	12268.24	285.0031	0.9498	110725.4	139178.6	12553.24	126625.4	135137.7	3.803
-0.2605	11.009	177.0855	87.0774	6.8709	153.792		5.2636	3.1291	3.9216	12089.05	5359.551	1360.847	2063.917	4005.285	899.4529	11009.04	285.3021	1	111285.2	138479.5	11294.34	127185.2	134849.3	3.857
0.7996	11.3314	171.574	87.2802	8.6663	146.5427		6.735	3.0653	3.8275	11813.39	5036.739	1328.785	2092.367	4120.498	833	11331.37	285.0428	1	111574.3	139090.7	11616.41	127474.3	135351.4	3.7638
-0.735	11.2502	107.979	86.8085	7.1112	148.9957		5.5234	2.3403	2.7583	11874.55	5303.265	1355.257	1860.114	4079.902	876.0097	11213.6	282.6696	0.9867	117316.5	144712.8	11496.27	133216.5	141012.1	2.7251
0.7402	10.8957	107.2492	86.7349	9.1116	145.444		5.9695	2.7916	3.1132	1130.22	5253.274	1330.423	1801.715	4369.283	833	12015.34	285.2277	1	110442.7	138643.5	12300.76	126342.7	134883.8	3.8663
0.45	11.0421	131.6779	88.2485	8.2363	142.695		6.8381	2.6504	3.2155	11417.35	5018.402	1326.963	1974.769	3862.219	833	10562.79	283.7734	0.8794	115319.7	140662.3	10846.59	132119.7	138574.8	3.1724
-0.6922	10.9961	169.8789	86.7038	9.1249	150.2925		5.8062	3.0578	3.8164	11659.52	5242	1349.172	1817.259	3998.599	850.493	10996.15	285.0769	1	111850.8	139032	11281.22	127750.8	135400.6	3.7548
-0.8775	12.6889	119.2511	87.3864	7.5345	157.5881		5.1085	2.4515	2.9224	12583.7	5393.15	1364.184	1897.498	4143.233	913.4468	12868.92	282.8683	1	115473.4	144324.8	12969.79	131373	140167.8	2.88
1.3565	11.1564	196.811	87.4014	6.1622	155.06		5.3831	3.3095	4.1876	12596.94	5333.662	1358.276	2557.465	4056.869	888.6703	11156.39	285.8749	1	109782.4	137124.7	11442.27	125682.4	133444.1	4.1143
1.0144	11.5611	179.9141	88.1205	6.8998	154.5408		6.9736	3.1407	3.9388	12273.74	5182.751	1343.287	2308.67	4204.035	833	11561.1	285.2558	1	110836.8	138583.2	11846.35	126736.8	134769.9	3.8705
-1.2018	11.7682	179.0763	87.5905	11.225	144.7213		7.4218	3.1266	3.918	11051.72	4891.933	1314.402	1331.064	4279.341	833	11768.19	285.1874	1	110812.6	138766	12053.37	126712.6	134886	3.8492
-0.5831	10.6079	133.6442	87.229	9.5084	156.3178		5.6286	2.6726	3.2482	12149.11	4686.315	1373.438	2077.684	3857.427	952.2503	10607.93	283.8417	1	115116.5	141908.3	10891.77	131016.5	138402.2	3.204
-1.7702	11.7156	128.2693	88.4627	7.5895	149.0144		4.9229	2.5826	3.1157	12042.93	5433.376	1368.18	1648.952	4260.219	930.2009	11715.6	283.4076	1	115090.8	142989	11999.01	130990.8	139127.3	3.071
0.6178	12.0433	130.9188	86.0159	8.324	145.1924		6.2362	3.1946	3.1167	11577.49	5032.818	1328.395	2043.386	3937.89	833	10779.43	283.6992	0.8951	115288.1	142251.3	11063.13	131188.1	138690.1	3.1512
0.4605	11.7421	195.6275	89.503	7.8803	156.3684		4.9289	3.2826	4.148	12763.2	5432.064	1368.049	2361.585	4269.849	929.6547	11742.09	285.6191	1	109614.4	137542.2	12027.78	125514.4	133670.4	4.0723
-0.8355	11.6335	165.6388	87.3947	8.8676	147.3866		6.2896	2.9973	3.7273	11573.85	5116.361	1336.693	1655.449	4203.345	833	11633.45	284.7753	1	111908.2	139276.4	11918.23	127908.2	135889.9	3.6665
-0.715	12.1435	110.8687	87.5019	5.0188	150.3566		5.0188	2.3583	2.7849	12480.25	5412.599	1366.116	1862.161	4415.626	921.547	12143.52	282.6277	1	116599.8	144806	12426.15	132459.8	140896	2.7483
0.3029	10.8337	189.1066	86.914	9.8764	145.444		7.5434	3.0553	3.8127	11280.05	4865.591													

TABLE 5

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
0.842	12.1118	134.2693	85.527	9.0081	148.516		7.0058	2.6887	3.2719	11362.15	4982.072	1323.355	2068.273	3753.452	833	10244.27	283.9417	0.8458	115229.2	141657.4	10528.21	131129.2	138268.4	3.2286
0.727	12.2365	205.3064	87.0655	9.9598	154.0348		6.5253	3.3514	4.2496	11676.95	5129.512	1337.999	1702.281	4472.164	833	12298.45	285.6246	1	108719.5	137203.8	12584.28	124619.5	133152.9	4.1672
-0.054	11.1152	130.6275	85.7244	8.7399	142.5544		7.3762	2.3408	2.7591	11237.94	5430.994	1367.844	210.894	929.219	833	11177.8	283.6775	1	11177.8	144676.7	14467.67	141006.7	141006.7	3.2261
-2.0143	10.2133	189.9485	87.391	7.5622	146.2502		4.4376	4.1385	11674.98	5538.512	1378.622	1667.91	3713.942	973.9002	10213.34	285.9172	1	110650.2	137049.5	10489.26	126550.2	133669.8	4.0724	
-0.1488	11.7938	147.7062	88.1838	9.2548	142.3248		7.3301	2.8178	3.4625	11233.56	4911.806	1316.376	1686.349	4084.026	833	11211.33	284.2444	0.9506	113585.1	140980.6	11495.58	129485.1	137280.2	3.4099
-1.7734	11.594	148.3525	87.7216	9.579	149.0466		5.5867	2.8151	3.4585	11646.89	5289.552	1353.895	1515.164	4215.984	870.2985	11593.96	284.1839	1	113356.1	141134.2	11878.14	129256.1	137310.6	3.4043
0.8987	11.8263	137.1529	87.8701	6.6593	153.3879		6.5084	2.6628	3.234	12456.75	5089.587	1334.06	2185.92	4611.909	833	12682.75	283.5478	1	113829.4	142695.7	12966.3	129729.4	138521.8	3.1821
0.0113	10.3549	126.6272	87.8723	7.0347	136.6369		6.6297	2.6111	3.1551	11045.4	5063.567	1331.449	1877.68	3537.702	833	9705.514	286.9762	0.9373	116201.4	142093.9	9992.49	132101.4	138877.3	3.1629
0.2834	12.4331	100.3723	86.573	8.5571	144.8446		5.8919	2.3561	2.6632	11300.18	5223.429	1347.327	2112.327	3372.343	842.7581	9132.987	283.9259	0.7346	119069.7	145491.6	9571.93	134969.7	141460.4	3.1468
-0.1683	11.8466	192.2388	88.1004	7.9602	154.9981		5.2665	3.2484	4.0976	12421.57	5358.917	1360.784	2092.83	4307.85	899.1889	11846.59	285.5633	1	109812.9	137845	12132.15	125712.9	139399.7	4.0229
0.2499	10.7319	164.4156	86.6012	9.5628	156.7186		5.2093	3.0091	3.7446	12233.21	5393.015	1364.171	2258.135	3902.504	913.3908	10731.89	284.9453	1	112402.7	139319.5	11016.83	128302.7	135773.2	3.6864
0.4946	10.773	136.6788	86.997	9.0809	150.248		6.34	2.704	3.2946	11706.74	5126.324	1337.682	2090.275	3917.645	833	10773.02	283.9254	1	114761.8	141718.8	11066.95	130661.8	138159.5	3.2486
-1.4997	10.9578	144.719	87.0503	8.2718	135.0899		7.2157	2.799	3.4346	10642.17	4936.597	1318.838	1276.953	3871.785	833	10646.37	284.2578	0.9716	114102.1	140932.7	10930.63	130002.1	137412.4	3.3853
1.1994	10.2228	212.512	86.9398	8.5953	145.5801		7.378	3.4798	4.4387	11405.4	4901.443	1315.346	2236.214	3717.394	833	10222.83	286.5986	1	109052.6	135462.1	10509.43	124952.6	132079.1	4.3643
1.5419	12.2374	133.6827	85.7219	7.8548	153.2973		6.2563	2.6503	3.2167	12141.44	5006.133	1328.724	2342.42	4209.427	833	11552.06	283.6493	0.844	114469.9	142405.6	11835.71	130599.9	138595.7	3.1685
-0.145	12.1464	148.8225	86.7813	9.9007	150.1092		7.2863	2.8161	3.4601	11540.45	4921.302	1317.319	1788.98	4277.898	833	11752.98	284.166	0.9675	113244.3	141190.6	12036.25	129144.3	137306.1	3.4052
-0.7061	10.3663	151.9054	87.5275	8.2204	158.8211		3.9228	2.8858	3.5627	12596.64	5721.563	1396.803	2255.492	3769.553	1050.231	10366.27	284.5859	0.9368	113605.6	140156.5	10650.86	129505.6	136728	3.5112
0.1608	11.9717	162.8424	87.2365	7.954	139.7174		7.9223	2.9796	3.7011	11071.14	4783.505	1303.633	1667.012	4087.993	833	11214.94	284.7775	0.9368	112319.1	139718.8	11499.71	128219.1	136017	3.6417
0.1699	11.7827	132.8036	87.7647	7.9813	144.0339		6.9047	2.6688	3.2427	11222.17	5003.987	1325.531	1873.449	3784.202	833	10348.73	283.862	0.8783	115315.9	141848.5	10632.59	131215.9	138425.8	3.1997
-1.7601	12.1442	183.0052	87.1716	8.4919	147.8985		5.9929	3.1533	3.9573	11636.61	5201.549	1345.154	1438.193	4146.072	833.645	12144.2	285.2072	1	110361.1	138690.6	12429.41	126261.1	134689.5	3.8853
0.454	11.8312	155.0495	87.0777	7.6324	147.9729		7.5164	2.8889	3.5674	11459.81	4871.45	1312.367	1841.99	4199.007	833	11538.84	284.4334	0.9753	112815.8	140539	11823.27	128715.8	136733.1	3.5103
-0.4064	12.7062	89.1607	87.5945	8.9922	151.52		4.2626	2.1034	2.4088	11909.82	5426.858	1367.532	2079.363	3706.582	927.4863	10081.16	281.9941	0.7934	119926.7	146189.9	10363.15	135826.7	142854	2.3872
-1.8147	11.7723	134.3259	86.9021	6.8874	154.8203		5.2821	2.7661	3.3862	12387.9	5572.204	1381.968	1762.874	4280.835	988.0228	11772.3	283.9998	1	113621.7	141578	12056.3	129521.7	137697.1	3.3334
-0.2593	11.428	172.0323	87.102	7.175	151.5753		4.5037	3.0672	3.8302	12114.96	5307.555	1355.683	2016.308	4156.618	877.7966	11427.95	285.0345	1	111497.1	139110.1	11712.99	127397.1	135339.7	3.766
-0.3788	11.7217	188.7993	87.9017	7.7901	153.3551		5.7468	2.3113	2.436	10843.51	5254.861	1350.449	1929.437	3050.909	855.8497	8242.503	651.5033	0.7032	120698.2	145492.2	8894.006	136598.2	142629.3	2.9812
0.4537	11.3538	113.8073	87.1564	8.5749	138.4577		6.6923	2.5865	2.934	10880.21	5050.01	1330.103	2006.719	3258.377	833	8853.66	530.8395	0.7798	117734.3	143018.8	9384.5	133634.3	139998	4.2424
-1.1963	11.5127	100.0516	86.073	7.5088	145.3804		5.3259	2.2415	2.6125	11712.46	5346.077	1359.509	1752.015	3959.015	893.8412	10864.7	282.3789	0.9437	118521.9	145369	11147.07	134221.9	141780.8	2.5841
0.1921	11.392	136.4015	87.7883	6.8195	142.9641		6.2581	2.6198	3.2767	11245.05	5002.154	1325.35	2622.186	4061.769	833	11142.01	285.8377	0.9368	114669.9	142405.6	11835.71	130599.9	138595.7	3.2263
0.9702	10.8369	123.2055	86.4872	9.0135	155.475		5.8659	2.5417	3.2052	12045.24	5229.053	1347.886	2280.5	3040.699	845.1007	10836.92	283.3782	1	115990.3	143010.6	11120.3	131890.3	139431	3.0151
-0.7497	10.9653	140.4147	87.1747	7.5313	154.3427		4.5525	2.7423	3.351	12293.38	5513.627	1376.15	2049.599	3987.375	963.6256	10965.28	284.0274	1	114336.6	141486	11249.31	130236.6	138648.8	3.3026
-0.7451	11.794	135.3997	86.9123	6.8949	141.8435		6.9949	2.6841	3.2653	11153.4	5006.115	1325.743	1582.61	4003.878	833	10981.37	283.8327	0.9311	114780.9	141946.1	11265.21	130680.9	138319.8	3.2191
0.1928	11.3703	178.9149	87.5544	8.0184	152.7516		6.7728	3.1366	3.9326	12149.25	5270.897	1352.042	2127.146	4134.641	862.5288	11370.27	285.2714	1	110992.9	138548.4	11655.54	126819.9	134796.5	3.8657
0.9325	12.1411	184.3999	87.0887	8.3821	154.4328		6.6726	3.1666	3.977	12153.34	5031.872	1328.301	2143.208	4414.956	833	12141.13	285.2508	1	110259.6	138586	12426.38	126159.6	134585.9	3.9043
0.6184	11.5412	122.8738	86.683	8.3961	152.7585		6.2649	2.528	3.0351	11958.99	5142.609	1339.3	2144.905	4097.178	833	11259.13	283.2829	0.9756	11568.17	143261.1	11542.41	131718.7	139545.6	2.9942
0.1836	11.7453	224.6778	86.5017	9.4939	152.244		6.8044	3.5328	4.5169	11723.98	5009.245	1326.054	1882.681	4271.004	833	11745.26	286.5085	1	107664.3	135596.1	12031.77	123564.3	131723.1	4.4296
-1.3478	11.2628	154.4575	86.6977	7.5113	141.2803		7.5625	2.8985	3.5814	11187.47	4861.467	1311.376	1798.792	3980.84	833	10937.57	284.5847	0.9711	111333.6	140255.7	11222.12	129033.6	136643.3	3.5268
-1.2507	11.6109	121.4289	86.6403	8.237	154.5918		5.2023	2.5023	2.9972	12120.49	5412.619	1366.118	1796.048	4222.155	921.5556	11610.93	283.1572	1	115787.3	143581.3	11894.08	131687.3	139752.6	2.9562
-0.1357	11.6518	127.2927	87.0509	5.1789	152.879		4.9726	2.5725	3.1002	12516.51	5422.804	1367.11	2102.051	4237.036	925.7143	11651.85	283.3821	1	115212.2	143047.4	11935.23	131112.2	139205.5	3.0566
-0.1512	11.0076	156.1789	86.604	9.4002	156.5394		7.7033	2.9279	3.6248	10541.37	4830.943	1308.344	1334.469	3832.613	833	10523.71	284.7047	0.956	113173.2	139881.6	10808.41	129073.2	136402.4	3.571
1.1638	11.8019	147.2235	87.2952	6.9185	145.0461		7.3269	2.8125	3.4546	11656.33	4912.524	1315.447	2107.05	4187.314	833	11216.08	284.2282	0.9424	113623.5	141023.8	11500.31	128523.5	137321.9	3.4023
0.1853	10.5924	173.7875	87.5698	8.2017	152.4991		5.2771	3.1636	3.9724	12070.06	5366.63													

TABLE 5

10 BG Ethanol

S146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
-1.0066	11.9319	193.0981	87.1937	7.9205	141.8404		7.2611	3.2537	4.1054	11244.13	4926.753	1317.86	1425.659	4338.859	833	11931.87	285.5669	1	109716.5	13783.93	12217.43	125616.5	133901.1	4.0299
-1.3077	11.8423	113.1089	86.7465	8.7428	145.0978		5.716	2.3943	2.838	11608.37	5261.524	1351.11	1446.321	4288.788	858.6246	11793.26	282.7834	0.9959	116510.4	14446.85	12076.05	152410.4	140599.2	2.8009
-0.4397	10.3787	193.4591	89.5656	9.3607	143.4591		6.2953	3.3073	4.1844	12352.12	5622.954	1387.10	1501.08	4252.266	1011.227	10978.73	284.5638	0.995	115406.3	143595.4	12289.1	131306.3	139639.5	2.977
0.0756	12.0667	123.4241	86.8025	7.0365	151.7785		6.1453	2.5177	3.02	12016.76	5168.526	1341.874	1995.137	4362.224	833	12005.94	283.1612	0.995	115406.3	143595.4	12289.1	131306.3	139639.5	2.977
-1.2235	12.1635	140.7621	86.1963	9.4202	138.2844		7.2644	2.7621	3.8003	10161.93	4926.051	1317.791	1355.604	3782.487	833	10325.52	284.1710	0.8489	114600.6	141110.7	13060.7	130500.6	137695.5	3.3338
-0.5993	12.3998	232.9371	87.5333	8.3658	151.986		6.1481	3.5772	4.5826	12023.35	5167.908	1341.813	1778.601	4509.03	833	12399.84	286.5369	1	106899.7	135486.1	12686.38	122799.7	131402.4	4.4885
-0.8759	11.4285	126.7964	86.677	7.1292	143.5766		6.398	2.5756	3.1053	11141.21	5113.768	1336.435	1640.1	4095.889	833	11259.4	283.4399	0.9852	115446.1	142888.9	11542.84	131346.1	139173.3	3.0625
-1.3219	11.0352	137.3844	87.3811	7.8704	140.1591		6.5149	2.7058	3.2973	11144.15	5088.435	1333.919	1473.997	4012.798	833	11035.2	283.8976	1	114576	141795.1	11319.09	130476	138151.5	3.25
0.5233	11.3962	101.7917	87.2647	8.1042	151.2799		6.5702	2.3119	2.6839	11625.33	5271.467	1352.098	2233.42	3503.583	862.7659	9557.964	325.5247	0.8387	118773.5	144557	9883.489	134673.5	141375.5	2.6584
-0.2437	10.2104	160.3284	85.7832	7.5203	146.7056		6.8738	2.9805	3.7024	11481.16	5227.345	1347.716	1947.265	3712.886	844.3893	10210.44	284.9254	1	112965.7	139361	10495.36	128865.7	135982.6	3.648
-0.4673	11.827	172.2932	87.7122	8.1004	152.3767		5.1785	3.0767	3.8443	12310.99	5377.986	1362.678	2014.75	4066.443	907.131	11182.72	285.1026	1	115819.9	138949.7	11467.83	127481.9	135258.2	3.7809
-1.231	10.6415	153.693	86.4165	7.6127	145.3353		6.6267	2.898	3.5807	11452.98	5280.883	1353.034	1680.736	3869.635	866.6878	10641.5	284.5885	1	113330.3	140156.4	10926.09	129230.3	136639.2	3.5275
-0.6208	12.6843	152.4979	87.1999	10.137	140.7215		7.7658	2.8781	3.5514	10844.41	4839.076	1309.152	1468.174	3993.004	833	10907.68	284.4852	0.8599	113312.4	140404.6	11192.17	129212.4	136801.8	3.4977
2.0209	11.3645	135.7149	87.3919	7.766	144.189		7.1247	2.7237	3.3165	11481.18	4956.312	1320.796	2421.736	3547.338	833	9655.66	293.5508	0.8523	115350.8	141230	9979.211	131250.8	138017.7	3.2746
-1.3204	12.0215	73.8567	86.0972	7.6364	148.6476		4.3412	1.9302	2.0853	11663.02	5559.405	1380.697	1909.295	3429.994	982.6921	9713.923	271.2845	0.7748	122087	147672.2	9685.208	137987	144554.5	2.0751
0.1654	12.0647	165.6525	86.0478	8.0478	140.3644		3.0424	3.0424	3.7935	11107.36	4711.454	1296.476	2081.314	3783.117	833	10331.12	281.1417	0.8549	112403.4	138919.7	10761.24	128303.4	135022.3	3.7361
-1.0087	11.2404	117.1987	87.1945	8.3003	139.8934		6.2308	2.4836	2.9695	11036.78	5149.994	1340.033	1631.052	3680.703	833	10076.19	283.2733	0.8964	116947.3	143206.8	10359.46	132847.3	139871.1	2.9343
0.7655	10.7914	149.3985	88.7493	9.8029	146.2743		6.9158	2.8473	3.5059	11547.83	5001.584	1325.293	2061.798	3924.159	833	10791.44	284.3989	1	113629.4	140605.2	11075.84	129529.4	137039.9	3.454
1.3192	11.5228	136.3361	86.6854	4.6523	150.548		6.0967	2.6818	3.2619	12349.92	5179.055	1342.92	2402.821	4190.123	833	11522.84	283.7562	1	114443.3	142149.9	11806.6	130343.3	138349.4	3.2137
-0.408	11.2113	139.8418	87.002	9.003	155.7884		5.1966	2.7296	3.3324	12151.35	5374.291	1362.311	2030.328	4076.823	905.5923	11211.26	283.9536	1	114274.1	141669.3	11495.22	130174.1	137969	3.2835
-1.7652	10.6345	126.7866	87.9825	8.3514	149.8985		4.3832	2.59	3.1265	11936.59	5550.305	1379.673	1758.508	3867.08	978.9109	10634.47	283.5633	1	115745.2	142563.3	10918.04	131645.2	139048.8	3.0854
-0.0428	11.1489	203.636	87.7875	8.1248	147.0143		6.2486	3.3728	4.2809	11711.56	5146.147	1339.651	1936.609	4054.15	833	11148.92	286.0851	1	109293.5	136628.5	11435	125193.5	132947.6	4.2049
2.3006	11.5173	113.2877	86.6571	7.9445	150.3883		6.0082	2.4246	2.8826	11687.05	5198.216	1344.823	2081.76	3827.255	833	10485.44	283.0291	0.9104	117138.7	143807.2	10768.47	130308.7	140340.8	2.8483
2.3004	11.3378	131.2462	86.6219	9.1863	148.5103		7.0974	2.7113	3.2431	11499.98	4962.231	1321.384	2516.661	3464.706	833	9448.664	366.2383	0.8334	115834.9	141549.8	9814.903	131734.9	138390.3	3.2062
-0.0033	11.3445	122.7815	86.6544	8.7119	146.2527		6.4237	2.5456	3.061	11399.3	5108.205	1335.883	1914.204	3806.014	833	10432.31	283.495	0.9196	116226.1	142841.8	10715.75	132126.1	139392.4	3.0223
-0.3518	10.8426	115.1171	85.8006	9.5127	146.2601		6.1593	2.4641	2.9407	11157.88	5165.478	1341.571	1855.559	3560.269	833	9747.92	283.2453	0.899	117317	143248.2	10031.17	133217	140019.1	2.9073
0.7444	11.1052	161.7883	87.5407	9.0216	139.8901		7.9819	2.9259	3.7207	10913.38	4770.552	1302.35	1841.917	3763.623	833	10321.31	284.9509	0.9294	112796.5	139302.8	10006.26	128916.5	135888.6	3.6653
0.1366	9.724	117.6838	87.3879	7.8661	152.6542		4.1408	2.4868	2.9889	12022.03	5074.34	1385.201	1934.485	3545.964	1000.777	9713.923	271.2845	1	11056.4	142931.7	10774.4	129564.4	138762.8	2.0751
0.1766	11.046	166.0168	87.0955	9.0572	141.9151		6.9619	3.0154	3.5768	11074.82	5127.594	1326.362	1463.072	4038.029	833	11104.58	284.9116	1	112111.6	139401.1	11389.5	128916.5	135734.8	3.6935
-0.5313	11.1833	118.5057	86.4857	7.3008	156.8762		4.589	2.4756	2.9527	12422.21	5505.707	1375.364	2112.159	3065.966	960.3269	11183.31	283.1191	1	116278.1	143644.5	11466.42	132178.1	139595.5	2.9194
-1.4436	11.1498	101.9607	88.2709	10.1505	148.1722		5.3817	2.2687	3.6527	11575.26	5333.969	1358.306	1661.697	4036.492	888.798	10798.1	282.4761	0.9685	118153	145133.6	11080.58	134053	141566.7	2.6234
-0.3042	10.5241	134.1387	86.6475	8.7243	135.766		6.9387	2.6974	3.2847	10850.85	4996.607	1324.798	1714.898	3579.552	833	9818.23	284.0254	0.9329	115440.6	141429.9	10102.26	131340.6	138191	3.2428
0.1784	12.9431	116.975	87.5359	7.1686	151.2034		6.0589	2.4409	2.9066	12151.82	5187.89	1343.797	2045.899	4339.231	833	11893.44	282.924	0.9189	116080.5	144156.9	12176.36	131980.5	140237.3	2.8673
1.2607	9.9653	149.4604	87.6884	8.0057	155.1057		4.9553	2.8693	3.5383	12359.24	5426.36	1367.483	2612.365	3623.749	927.279	9965.312	284.5859	1	113996.8	140146.7	10249.9	129896.8	136847.2	2.8894
0.1098	12.3988	111.4538	88.4855	7.9486	146.6071		6.2087	2.4087	2.859	11807.28	5193.291	1344.334	2320.14	3714.516	833	10118.38	283.0167	0.8161	117506.6	143808	10401.39	133406.6	140459.8	3.4625
0.276	10.2586	134.2564	87.1381	10.281	144.251		6.8783	2.6969	3.284	11086.71	5009.711	1326.1	1912.678	3603.321	833	9897.532	284.0135	0.9648	115392.6	141474.2	10181.55	131292.6	138196.7	3.2417
-2.5701	10.5459	155.4312	87.1284	8.2075	148.8084		4.1993	3.6121	3.1142	11744.1	5590.19	1383.755	1537.757	3834.884	995.5139	10545.93	284.6728	1	113226.2	139956.8	10830.6	129126.2	136470.4	3.5585
-0.429	11.7296	189.5319	88.017	8.2976	133.7113		6.8806	3.2332	4.0751	10693.38	4619.208	1287.314	1326.609	4191.254	833	11520.38	285.5674	0.9822	110142.3	137848.3	11805.94	126042.3	134047.9	4.003
0.5799	10.1535	124.6425	87.8774	5.621	157.1018		2.9042	2.5749	3.1042	12922.63	5870.75	1411.621	2433.718	3692.174	1112.367	10153.48	283.5712	0.8552	116180.3	142517.3	10437.05	132080.3	139157.6	3.0654
2.8411	12.7792	123.7491	88.3728	8.9528	156.4247		6.4649	2.5389	3.0511	12423.28	5089.294	1334.959	2752.157	4001.863	833	10928.08	283.5569	0.8552	115951.5	143063.6	10212.04	131851.5	138454.4	3.011
0.6187	12.6142	139.7374	87.9389	6.4796	158.1816		4.6443	2.6397	3.2795	12865.37														

TABLE 5

10 BG Ethanol

S146barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
-0.9562	11.7659	135.8041	87.5375	7.3275	146.1962		6.0598	2.6697	3.2442	11726.32	5187.045	1343.713	1682.052	4278.506	833	11765.9	283.686	1	1143777.7	142327.3	12049.58	1302777.7	138448.6	3.1955
-1.1439	10.2765	163.3383	87.9017	8.5488	151.1089		4.4103	3.0104	3.7464	11990.93	5544.44	1379.211	1951.911	3736.907	976.4592	10276.5	285.016	1	112689	139150.5	10561.51	128589	135750.8	3.6905
-0.5472	12.0869	128.2711	87.9017	9.2437	149.5919		6.5568	2.5912	3.1292	11624.02	5076.86	1333.18	1839.097	3736.907	976.4592	10276.5	285.016	0.9392	115362	143999.2	11692.67	12163.5	130653.7	3.0845
-2.4904	10.8236	151.7711	85.7783	8.1857	144.2075		5.3872	2.8724	3.5429	11242.79	5332.78	1358.18	1325.654	3935.869	888.3028	10823.64	284.779	1	113411.9	140420	11108.12	129311.9	136844.3	3.4899
-1.2799	11.8125	128.8183	87.1243	7.8303	149.209		6.6668	2.5869	3.1223	11831.33	5267.854	1351.739	1653.075	4959.808	861.2611	11812.46	283.4098	1	114993.7	142989.6	12095.87	130893.7	139095.9	3.0767
-0.4241	10.6075	138.4578	87.1677	6.3697	147.302		5.2428	2.7287	3.3309	11901.7	5364.056	1361.295	2015.738	3857.281	901.3292	10607.52	284.0287	1	114677.6	141469.2	10891.55	130577.6	137963.2	3.2846
-0.334	11.142	142.9928	86.6915	7.9897	139.1423		7.3345	2.796	3.4302	10951.07	4910.862	1316.282	1839.981	3664.944	833	9989.317	284.3357	0.8965	114555.4	140729	10273.65	130455.4	137421.9	3.3839
-1.4209	10.4381	155.9889	87.478	8.7602	157.0576		3.6482	2.9282	3.6252	12363.22	5709.349	1395.59	2015.479	3795.664	1045.144	10438.08	284.7176	1	113222.2	139850	10722.79	129127.2	136398.3	3.5717
-0.2613	12.2759	107.1176	86.6906	6.8325	154.4219		5.074	2.3123	2.7113	12331.84	5306.739	1355.620	2014.909	4375.135	877.4567	12024.7	282.4912	0.9795	116997.5	145204.7	12307.19	132897.5	141243	2.6828
-0.0636	11.0013	166.6527	87.7792	6.3924	156.8841		4.0021	3.0247	3.7676	12768.29	5613.374	1386.058	2361.208	4000.484	1005.17	11001.33	284.9577	1	112105.6	139291.8	11286.29	128005.6	136568.8	3.7074
-0.314	12.1571	171.0914	88.1432	6.7747	152.4545		6.0924	3.0372	3.7861	12100.1	5199.912	1344.991	1899.424	4420.772	833	12157.12	284.8286	1	111256.8	139598.8	12441.95	127156.8	135593.7	3.7194
-0.3135	10.1474	129.03	88.4879	7.9423	142.9256		5.7306	2.6285	3.1832	11512.03	5258.369	1350.797	1953.573	3689.978	857.3106	10147.44	283.7519	1	115764.3	142095.5	10431.19	131664.3	138737.7	3.1425
1.3616	11.9182	251.9786	86.5037	8.7156	148.0566		8.3564	3.7394	4.8218	11517.05	4689.44	1294.29	1964.425	4333.899	833	11918.22	287.1513	1	105946.4	143051.8	12205.38	121846.4	130122.9	4.7232
-0.7308	12.5865	143.5789	87.6776	7.4606	150.4701		5.7349	2.7372	3.3437	12359.13	5257.432	1350.704	1915.717	4576.899	856.9204	12586.48	283.7955	1	113313.1	142083.3	12870.28	129213.1	137940.4	3.2888
0.4782	10.4317	136.6259	87.9023	9.404	149.011		6.2289	2.7177	3.306	11691.71	5138.034	1338.945	2147.568	3793.349	833	10431.71	283.9949	1	114925.5	141541.2	10715.71	130825.5	138091.8	3.2641
0.6163	12.0702	147.2719	88.1535	8.4075	143.963		7.3475	2.8126	3.4548	11807.47	4908.042	1316.002	1927.727	4093.7	833	11226.51	284.2522	0.9301	113615.4	141026.6	11511.13	129515.4	137321.1	3.4204
-2.642	10.3282	171.9614	87.5391	10.359	137.9269		6.1028	3.0975	3.8749	10645.21	5177.734	1342.788	1133.994	3755.695	833	10328.17	285.3001	1	111973.9	138487.4	10613.47	127873.9	135070.9	3.8153
0.2784	12.6113	113.9763	87.3053	7.7279	154.1913		5.8787	2.3995	2.8656	12270.14	5226.292	1347.611	2113.352	4336.931	843.9504	11901.83	282.7881	0.9437	116398.4	144483	12184.61	132298.4	140560.8	2.8079
-0.6173	13.0189	97.3383	86.5148	6.7839	150.1095		5.2984	2.2081	2.5632	11968.36	5352.018	1360.099	1942.778	4015.151	896.3157	10955.52	282.2589	0.8415	118523.4	145661.2	11237.78	134423.4	142043.8	2.5358
-0.5884	11.8566	90.2968	86.9807	8.9392	139.5766		6.0793	2.3971	2.4773	10836.93	5182.816	1343.293	2172.439	2950.383	833	7816.178	284.3477	0.6592	120669.9	145150.5	8580.52	136569.9	142388.4	2.4726
1.2491	9.953	87.2686	87.1717	8.272	138.1539		5.7657	2.3311	2.4097	10900.31	5250.756	1350.041	2126.579	2916.791	854.1398	7935.209	274.7772	0.7973	120984.2	145544.2	8659.98	136884.2	142756.6	2.405
1.8691	12.424	116.8298	87.2166	7.2312	156.0631		6.0955	2.4507	2.9211	12482.77	5179.317	1342.946	2579.03	4146.475	833	11362.52	283.0164	0.9146	116354.8	143900.3	11645.54	132254.8	140151.6	2.883
-0.0719	12.8673	176.8807	86.4736	9.2339	147.9008		8.0018	3.0765	3.8442	11423.82	4748.934	1300.199	1496.703	4642.98	833	12766	284.8651	0.9921	110554.8	139505.7	13050.86	126454.8	135304.6	3.7724
-0.079	12.3582	112.4118	87.6381	7.6086	153.8157		5.1301	2.3783	2.8144	12309.79	5258.47	1350.807	2028.686	4412.474	857.3526	11218.11	282.6494	0.9814	116413.8	144724.6	12410.8	132313.8	140729.6	2.777
-0.5175	11.0314	147.056	88.2509	7.4998	146.1845		4.748	2.0594	2.331	11804.57	5471.265	1371.943	2084.802	3528.577	945.9817	9647.534	298.9454	0.8746	120616	146622.5	9946.48	136516	143267.0	2.3125
1.2864	11.1499	85.0998	88.6506	9.1193	143.6267		7.3893	3.483	4.1422	11282.82	4898.987	1315.103	2133.783	3839.948	833	10538.67	284.3817	0.9452	113915.8	140638.9	10823.05	129815.8	137155	3.4329
-0.8778	11.0486	155.1143	86.7681	8.3251	142.6663		6.9387	2.9226	3.8875	11105.57	4996.818	1324.8	1531.477	4017.678	833	11048.62	284.5468	1	113028.9	140262.1	11333.17	128298.9	136613.9	3.5322
0.5785	10.3457	136.4481	87.9023	9.404	149.011		4.2069	2.7397	3.3403	12573.65	5589.516	1383.889	2447.568	3763.471	944.8476	10345.7	284.0725	1	113908.9	141933.7	11696.84	129706.9	137651.7	3.3464
-0.1872	12.1678	121.5894	87.8087	7.1734	155.7112		4.9849	2.4917	2.9817	12555.82	5194.934	1368.845	2017.787	4424.654	924.6026	12167.8	284.5069	1	115502.2	143853.1	12450.86	131402.2	139845.2	3.9392
0.4273	12.1685	118.2522	87.3428	8.5271	157.8674		5.8088	2.4507	2.9212	12442.44	5241.421	1349.114	2174.971	4424.68	850.2517	12167.87	282.9428	1	115822.3	144173.1	12450.79	131722.3	140165.2	2.8805
-1.3547	10.9972	117.66	88.2243	8.1337	141.6819		5.9684	2.47	2.9496	11347.4	5206.623	1345.658	1572.626	3984.734	835.7585	10957.31	283.1266	0.9964	116471.3	143611.8	11240.44	132371.3	139993.5	2.912
0.7981	11.7163	92.1992	87.5007	9.9378	154.8822		5.1608	2.166	2.4845	12013.11	5381.819	1363.059	2423.233	3534.275	908.7276	9631.223	304.1934	0.822	119804.4	145639.9	9935.416	135704.4	142441.7	2.4628
1.4607	11.5813	169.3891	86.5997	8.9149	144.5681		8.238	3.0619	3.8225	11518.17	4715.091	1296.837	2019.804	3891.44	833	10667.31	285.1305	0.9211	112031.9	138884.4	10952.44	127931.9	135358.8	3.7625
0.0574	12.1416	144.7975	87.2974	8.5106	155.3085		5.9569	2.7619	3.3802	12236.26	5209.333	1345.927	2026.978	4415.132	836.8872	12141.61	283.9377	1	113411.9	141737.5	12425.55	129311.9	137377.7	3.326
0.6881	11.4296	152.4657	88.1212	6.6782	139.9478		5.4607	2.8725	3.5432	11397.76	4881.327	1313.348	1926.045	4042.042	833	11105.97	284.4395	0.9717	113226.2	140516.6	11390.41	129126.2	136850.1	3.4888
0.1987	11.907	136.1039	87.5035	7.4021	145.3542		6.8331	2.6812	3.261	11643.07	5019.488	1327.071	1896.974	4164.541	833	11437.36	283.7651	0.9606	114504.2	142125.3	11721.13	130404.2	138352.2	3.2132
-0.5676	11.6841	170.0157	85.8293	8.1337	137.3164		8.3323	3.0536	3.8102	10737.59	4736.936	1299.007	1390.94	4075.704	833	11192.1	285.0249	0.9579	111756.3	139133.4	11477.13	127656.3	135439	3.7478
0.4072	10.2506	144.6913	88.8869	9.339	141.5664		7.2736	2.8159	3.4596	10978.18	4924.045	1317.591	1875.653	3625.981	833	9962.893	284.4064	0.9719	114416.4	140563.7	10247.3	130316.4	137265.1	3.4127
0.4755	10.6576	146.9507	88.0611	8.9773	142.9475		7.1406	3.0167	3.7558	11301.97	4952.876	1320.455	1918.285	3975.355	833	10657.23	284.9815	1	112391.9	139234.1	10942.21	128291.9	135711.8	3.6977
-0.1461	11.4028	144.142	87.3651	8.5384	155.0636		5.3493	2.7794	3.3969	12222.91	5340.994	1359.003	2082.746	4146.46	891.72	11402.77	284.0725	1	113908.9	141933.7	11696.84	129706.9	137651.7	3.3464
0.2832	10.1614	120.1247	86.2074	9.3944	146.3252		6.4107	2.5302	3															

TABLE 5

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
1.0254	12.1497	169.5075	87.169	9.9895	137.5336		8.4695	3.0883	3.8612	10614.78	4664.935	1291.856	1834.214	3588.776	833	9767.847	285.3535	0.804	112409.6	138638.2	10053.2	128309.6	135126.7	3.8051
-0.4394	10.8914	231.2384	88.4451	10.3393	149.6564		5.825	3.6147	4.6376	116890.04	5237.918	1348.766	1894.703	3956.861	848.7928	10891.38	286.9321	107578.5	134646.8	11168.31	123478.5	131051.7	4.5528	
-0.362	12.962	183.281	86.9494	12.962	149.086		4.4898	1.9711	3.1974	1156.09	4859.258	1354.815	2054.863	4065.877	969.6073	9625.97	283.9824	0.7784	119755.0	155287.2	10912.04	137530.3	145871.1	3.1822
-0.3195	11.4402	188.9633	88.0629	11.357	145.3886		7.7584	3.2278	4.0671	11152.16	4860.968	1311.326	1584.801	4160.083	833	11440.19	285.5603	110206.3	137862.1	11725.75	126136.3	134087.6	3.9857	
-0.7166	10.0033	155.0081	87.5965	8.7683	157.0276		7.9824	2.9275	3.6242	12378.2	5678.966	1392.572	2212.8	3659.373	1032.489	10063.28	284.7683	113476.7	139724.7	10348.05	129376.7	136393.7	3.5726	
1.9764	11.3749	198.7485	89.1902	7.7851	149.0592		6.9462	3.3221	4.2062	12134.18	4994.993	1324.638	2443.221	4136.325	833	11374.9	285.807	109543.3	137104.1	11660.78	125443.3	133350.5	4.131	
-0.5281	11.6934	95.1055	88.4013	8.7683	154.5091		4.9828	2.1625	2.6159	12304.74	5418.22	1366.674	2032.457	4161.501	923.8888	11436.94	282.0162	0.9781	118559.3	146178.3	11719.13	134459.3	142406	2.4694
0.4187	12.1222	118.3943	87.2098	7.9923	152.6551		6.1904	2.4654	2.9428	12092.96	5180.404	1343.054	2115.906	4218.596	833	11583.3	283.0395	0.9555	116093.9	143860.2	11866.34	131993.9	140400.5	2.9034
2.5403	11.3605	164.9758	86.9098	7.7682	144.2764		8.0503	3.0305	3.776	11358.24	4730.903	1288.408	2139.886	4154.444	833	10166.6	285.0994	0.8949	112603.4	138955.1	10451.7	128503.4	135590.7	3.7939
0.2571	11.5843	112.9267	87.1777	8.336	149.9441		5.9461	2.4137	2.8664	11821.84	5211.688	1346.161	2093.06	3931.061	837.8681	10781.16	282.9595	0.9307	117029.1	143993.2	11064.12	132929.1	140431.7	2.8316
0.4509	11.4315	146.5229	87.5736	7.6588	144.4675		7.1438	2.8016	3.4386	11545.08	4962.179	1320.386	1915.516	4121.996	833	11333.31	284.1747	0.9914	113631.8	141149.3	11617.49	129531.8	137409.6	3.3862
0.2148	11.9366	159.227	87.9079	8.1618	150.5038		6.4285	2.9224	3.6168	12002.09	5107.589	1335.822	1983.45	4340.22	833	11935.61	284.4874	112295.6	140415.7	12220.1	128195.6	136482	3.5564	
-2.029	11.41	188.5411	87.8778	6.855	154.2577		3.2272	4.0663	12498.39	5709.341	1395.589	1797.221	4149.101	1045.14	11410.03	285.5633	110260.1	137855.7	11695.59	126160.1	134090.8	3.9951		
0.2102	12.1657	106.2946	88.4705	7.3676	144.1524		2.1071	2.3397	2.7574	11691.18	5249.387	1349.905	2112.838	3723.478	853.5696	10155.26	282.781	0.8347	118022.9	144361	10438.05	133922.9	141001	2.7272
0.5754	11.7985	176.9913	87.1006	7.6981	155.1286		5.587	3.1054	3.0867	12472.72	5289.493	1373.889	2266.722	4290.344	870.274	11798.45	285.1041	110958.4	139941.9	12083.55	128958.4	135052.2	3.8187	
-0.5034	11.8435	182.6763	87.3191	8.025	149.8483		7.9924	3.1159	3.9657	11862.09	5178.474	1342.862	1819.026	4360.714	833	11843.47	285.2721	110511.6	139540.3	12128.74	126411.6	134631.9	3.8951	
-1.6053	12.1745	150.9728	87.3407	7.9639	140.7749		7.3118	2.8348	3.4876	11033.49	4915.784	1316.771	1223.936	4321.001	833	11933.93	284.2022	0.9802	112990	141098.1	12218.14	128880	137165.1	3.431
-0.053	12.6419	114.8502	86.4721	7.4783	151.9362		5.9863	2.4026	2.8767	12020.11	5202.968	1345.295	1985.774	4321.741	834.236	11597.92	282.8911	0.9174	116434.3	144215.1	11880.81	132334.3	140390.6	2.8392
0.389	11.839	128.3576	87.6688	9.68	138.778		7.1214	2.7068	3.1954	10823.13	4957.033	1320.888	1900.207	3410.017	833	10267.676	240.4596	0.7828	116161.9	141750	9688.135	132061.9	138631.4	3.162
0.9855	11.788	152.9536	88.1297	9.0665	157.3518		5.8887	2.8599	3.5246	12440.75	5224.124	1347.396	2337.643	4286.538	843.0478	11787.98	284.3042	112879.3	140851.6	12072.29	128779.3	136965.5	3.4677	
0.5692	11.3552	131.1719	88.4429	7.9228	154.6636		5.3145	2.6256	3.179	12453.53	5348.516	1359.751	2139.233	4129.174	894.8569	11355.23	283.5926	114992.7	142531.6	11638.82	130892.7	138785	3.3388	
0.4895	11.2449	100.7589	87.9382	9.2825	148.8087		5.6296	2.3022	2.6636	11622.78	5280.249	1352.971	2230.704	3490.435	866.4239	9527.289	333.459	0.8473	118895.3	144656	9860.748	134795.3	141481.9	3.1639
2.1087	11.5867	163.8399	87.4138	7.8343	158.7874		6.0729	2.9799	3.7016	12636.21	5184.214	1343.432	2660.202	4213.362	833	11586.75	284.725	112074.4	139845.8	11871.47	129794.4	136024.4	3.6403	
-0.4642	10.8201	207.1347	86.4663	6.9937	147.0839		5.6835	3.414	4.3416	11733.27	5268.571	1351.811	1914.752	3934.573	861.5597	10820.08	286.2767	109183.5	136189.9	11106.36	125083.5	132614.8	4.266	
0.4307	10.471	116.1843	87.2193	8.3623	149.3872		5.3783	2.462	2.9377	11776.27	5334.693	1358.378	1984.449	3807.653	889.0997	10471.05	283.1557	116855.3	143509.5	10754.2	132755.3	140047.7	2.9021	
0.4807	11.3748	116.4259	87.1102	7.0831	153.8222		5.3846	2.4453	2.9132	12396.26	5333.329	1358.243	2276.885	4136.275	888.5313	11374.76	282.9974	116388.5	143963.3	11657.76	132288.5	140193.6	2.8753	
1.0694	11.4129	156.5439	86.8359	8.6889	145.4382		5.7772	2.9212	3.6149	11365.55	4836.806	1308.907	2060.776	3972.263	833	10924.19	284.6258	0.9572	112964.8	140073.6	11208.81	128684.8	134665.5	3.5594
0.2099	11.14	132.5933	87.0643	6.6722	145.9463		4.5476	3.2105	3.2105	12340.45	4837.081	1373.514	2073.434	4592.352	962.5692	11143.76	283.5889	114864.5	142933.7	11457.66	132685.1	137429.5	3.3826	
0.299	11.4166	92.1323	88.7634	7.734	137.8569		6.8592	2.9959	2.4988	11079.54	5273.827	1352.333	1975.602	3127.573	863.7488	9719.135	283.1511	0.7637	120133.9	145290.2	9256.286	130603.9	142310.6	2.4869
-1.1737	12.1664	108.0127	87.9216	8.0968	155.0906		4.9563	2.321	2.7299	12380.08	5426.13	1367.46	1833.161	4424.148	927.1832	12166.41	282.5044	116835.5	145184.4	12448.92	132735.5	141177.1	2.6948	
-1.801	12.6669	152.0632	87.6668	8.2297	152.8251		5.1687	2.8352	3.4882	12139.99	5380.118	1362.89	1589.929	4937.008	9107.031	12366.85	284.1448	112693.7	141244.7	12651	128593.7	137172.3	3.4297	
-0.1462	12.5545	150.5594	85.9585	9.0887	148.3235		7.4187	2.8353	3.4883	11392.26	4892.622	1314.47	1669.493	4280.677	833	11742.71	284.2299	0.9353	113101.1	141028	12026.94	129001.1	137156.6	3.0436
0.8951	12.2437	123.2122	87.4983	7.7225	143.437		6.5636	2.5592	3.081	11541.51	5077.889	1332.872	2173.707	3695.404	833	11069.59	283.5284	0.8224	116358.9	142612	10353.12	132258.9	139279.9	3.4321
-0.3413	10.7144	138.6557	87.9049	8.1681	136.2932		7.0789	2.7439	3.3534	10867.58	4964.022	1321.562	1672.958	3674.04	833	10081.31	284.1462	0.9409	114903.4	141168.9	10365.46	130803.4	137832.2	3.3086
0.5882	12.7898	150.3702	88.9788	7.6226	149.5709		7.1643	2.8086	3.4541	12077.21	4477.726	1319.943	1955.345	4614.195	833	12686.79	284.0161	0.9919	112690.8	141561.6	12970.81	128590.8	137386.3	3.3904
-1.1698	11.4701	119.9664	87.9889	11.0162	138.4027		6.5568	2.5589	3.0368	10653.23	5079.349	1330.017	1514.279	3491.589	833	9519.869	341.276	0.83	116906.6	142667.7	9861.145	132806.6	139493.4	3.0038
-1.2046	12.0427	168.4624	87.406	8.2919	152.3665		5.4704	3.0141	3.7521	12053.54	5144.744	1356.397	1720.45	4379.161	880.791	12042.69	284.7704	111511	139738.5	12327.46	127411	135770.3	3.687	
0.4602	11.604	125.1657	88.2996	8.0864	155.0589		5.4352	2.548	3.0646	12445.37	5322.373	1357.155	2260.231	4219.638	883.9693	11604.01	283.307	115434.9	143222.2	11887.32	131334.9	139395.7	3.0278	
0.9906	11.4218	164.5493	87.2741	7.3071	150.6531		5.9043	2.9915	3.7187	12065.58	5242.399	1349.211	2068.134	4153.394	850.8591	11421.84	284.787	112091.1	139697.7	11706.63	127991.1	135929.3	3.6517	
-0.6655	11.3616	146.3707	86.4975	6.9837	150.2814		5.4839	2.7992	3.435	11971.25	5311.823	1350.607	1830.269	4131.474	879.5744	11361.55	284.1663	114362.1	141177.8	11445.72	128532.1	137429.5	3.3826	
-0.7622	11.3598	173.6744	87.4772	7.7032	145.9683		3.6847	3.0572	3.8572	11408.46	4830.981	1308.348	1903.271	4130.92	833	11359.76	285.1048	111938.8	138943.7					

TABLE 5

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
1.4594	11.1539	156.9759	86.4365	8.9943	150.3109		7.4892	2.9204	3.6138	11640.4	4877.33	1312.951	2169.163	4045.957	833	11125.93	284.5948	0.9975	112839.3	140149.8	11410.52	128739.3	136476.8	3.5573
-0.7866	11.7839	107.9721	87.5585	8.2019	149.1124		5.6415	2.3394	2.7555	11633.05	5277.672	1352.715	1819.983	4115.328	865.3505	11301.48	282.6537	0.9591	117273.2	144775.3	11594.14	133173.2	141028.4	2.7221
-2.1844	12.2619	177.8293	87.8294	4.9686	146.8957		4.2967	3.0775	1239.51	5449.997	1654.941	2196.981	3856.854	935.4576	1224.85	286.2081			112389.1	142296.6	12581.85	134829.1	138271.1	3.805
-1.5053	12.177	194.6039	88.9317	8.2092	148.8426		5.4538	3.26	4.147	12047.14	5318.345	1356.754	1627.55	4428.002	882.2905	1177.01	285.5481		109509.3	133791.9	12462.56	125408.3	133860.2	4.0375
-0.6691	11.6905	114.7426	86.4447	7.4686	141.045		6.1866	2.4547	2.9269	11139.19	5163.474	1341.372	1752.181	3647.158	833	9957.913	283.1897	0.8518	117251.7	143392.8	10241.1	133151.7	140096.2	2.8932
1.7069	11.1167	133.1201	86.6377	7.7886	152.2709		6.6865	2.6583	3.2273	12006.42	5051.264	1330.227	2408.928	3981.004	833	10943.29	283.522	0.9844	115007.3	142134.4	11227.04	130907.3	138520.4	3.1823
-0.2876	12.5691	116.9913	87.4886	6.9643	147.7992		6.0685	2.4467	2.9153	11901.41	5185.165	1343.527	1894.265	4243.453	833	11635.01	282.9725	0.9257	116205.5	144023.5	11917.98	132105.5	140187.1	2.8765
1.2725	11.9512	114.5805	87.0828	6.8029	148.1226		6.5252	2.5384	2.9415	11624.65	5086.2	1333.697	2575.746	3394.012	833	9216.532	427.009	0.7712	117541.7	143085.2	9643.541	133441.7	139980.9	2.9143
1.8383	10.6542	110.4559	87.2047	6.8496	150.7812		5.8631	2.3963	2.8408	12116.04	5229.671	1347.947	2615.656	3675.408	845.3581	10087.87	282.9784	0.9468	117624.1	143899.4	10370.85	133524.1	140556.5	2.8087
1.0766	11.0648	127.3236	86.7817	7.486	154.0109		5.8783	2.5865	3.1213	12212.4	5226.368	1347.619	2368.849	4023.577	843.9825	11064.84	283.4993		115489.2	142377.6	11348.34	131389.2	139084.6	3.0788
0.0193	10.8183	175.4351	86.7594	7.4605	147.5353		6.0743	3.1183	3.9056	11699.39	5189.751	1343.982	1996.72	3933.935	833	10818.32	285.2953		111493.3	138496.9	11103.62	127393.3	134922.7	3.8425
-1.2148	11.3436	143.3406	85.1889	7.4757	153.6832		5.2704	2.7659	3.3859	11901.73	5358.074	1360.7	1757.17	4124.946	898.838	11343.61	284.0557		113904.1	141431.7	11627.67	129804.1	137688.8	3.3349
0.4727	12.0133	158.3526	87.1846	6.558	156.2724		5.4231	2.9112	3.6002	12599.84	5323.049	1357.222	2264.858	4368.458	884.25	12013.26	284.4399		112332.5	140530.2	12297.7	128232.5	136571.6	3.5399
2.3018	12.0202	81.9484	87.472	8.9654	140.8123		6.0843	2.3872	2.311	11054.69	5181.724	1343.185	2719.694	2575.086	833	8680.545	964.6092	0.5724	122027	145727.1	7845.154	137927	143248.6	2.3151
0.622	11.3336	169.9399	87.9518	7.14	152.4573		5.5836	3.0671	3.122	12301.35	5290.21	1353.96	2282.299	4121.311	870.5725	11333.61	284.6846		112421.6	139939.9	11618.29	128321.6	136200	3.8081
0.1331	9.6609	174.6711	87.7019	8.8233	149.9199		5.3568	3.1527	3.942	11675.55	5339.363	1358.842	2171.239	3513.067	891.0446	9660.937	304.3129		112033.9	137999.2	9965.25	127933.9	134601.4	3.8849
1.0226	12.3731	106.1765	87.6594	7.7926	144.4878		6.0426	2.4015	2.7752	11541.23	5190.777	1344.084	2318.703	3452.663	833	9366.131	379.0188	0.757	118368.3	144014	9745.742	134268.3	140676.9	2.7499
0.2046	11.2674	274.9041	87.0579	8.4038	151.0661		6.1387	3.927	5.0984	11881.96	5169.954	1342.016	2307.742	4097.249	833	11267.43	287.8915		110490.2	132355.5	11555.33	120800.2	128635.9	4.9961
-0.205	12.4006	142.9092	88.9305	6.8217	146.7178		6.4037	2.7344	3.3397	12046.82	5112.535	1336.313	1853.662	4509.308	833	12400.6	283.8149		113456.3	14240.7	12684.42	129356.3	137957.6	3.2856
-0.1175	11.9798	123.9458	86.4977	8.839	154.9064		6.1371	2.5252	3.031	12029.83	5170.291	1342.049	1934.981	4347.51	833	11955.28	283.1915	0.998	115381.3	143519.8	12238.47	131281.3	139580.3	2.9879
-0.6652	11.4838	200.9707	86.8258	9.4889	141.345		7.8528	3.3386	4.2306	10931.19	4798.561	1305.128	1146.562	4175.938	833	11483.83	285.9713		1109344	137013.8	11769.75	125244	133225.1	4.1954
1.5733	10.3671	124.3978	87.1662	8.0828	141.1489		6.9918	2.6922	3.128	11162.53	4985.109	1323.656	2305.039	3313.679	833	9059.618	480.7859	0.8739	116606.8	142047.2	9540.404	132506.8	138972.6	3.0987
-0.1896	11.7476	136.8882	87.6869	10.3035	133.488		7.6864	2.8626	3.3804	10329.76	4834.611	1308.709	1602.051	3349.387	833	9097.459	480.064	0.7744	115238.7	140716.3	9577.523	131138.7	137633.3	3.3451
-1.5037	10.9485	151.8056	88.2096	8.1372	146.608		5.1321	2.8695	3.5387	11739.26	5388.274	1363.7	1692.603	3981.217	911.4162	10948.5	284.4512		113352.9	140485.8	11232.95	129252.9	136689.9	3.4852
0.7844	11.4449	116.0675	87.7287	8.32	142.9842		6.543	2.528	2.966	11282.71	5101.86	1335.252	2160.422	3540.178	833	9401.7	374.3668	0.8215	117333.2	143009.3	9776.067	133233.2	139862.4	2.9361
0.9583	10.2545	152.222	88.3797	6.0823	146.3685		5.4624	2.8922	3.5721	12045.76	5294.376	1354.374	2393.783	3728.916	872.3077	10254.52	284.6228		113628.6	140067.8	10539.15	129528.6	136675.2	3.5209
-0.3269	10.9229	105.9892	86.9299	10.51	145.0536		6.0008	2.4077	2.7728	11084.97	5199.837	1344.984	1895.23	3409.924	833	9310.531	394.8602	0.8524	118405.4	14010.6	9705.392	134305.3	140866.5	2.7482
-0.2697	12.4058	149.4322	87.6869	9.8509	143.253		6.4338	3.0438	3.7957	11054.17	4828.332	1308.056	2179.06	4101.365	833	11223.88	284.5191	0.8903	112922.1	143030.5	11508.4	128822.1	138625.9	3.53
-1.9527	10.8329	148.0554	86.9698	7.0702	151.2385		5.5554	2.8066	3.446	12083.9	5131.001	1378.088	1853.835	3975.614	963.3651	10932.94	284.2449		113845.6	140971.8	11217.19	129754.6	13780.9	3.3951
0.8594	11.0872	169.3884	88.3066	6.8823	158.5993		4.4409	3.0502	3.8052	12910.58	5537.801	1378.551	2586.818	4031.714	973.6941	11087.21	285.0292		111851	139132.2	11372.24	127751	135452.5	3.7434
-0.2357	10.4687	195.4723	87.0223	8.1540	146.2408		5.9566	3.32	4.203	11534.29	5209.401	1345.934	1933.248	3806.796	836.9156	10468.69	286.0221		110143.7	137928.4	10754.71	126043.7	133336.4	4.1336
1.3635	11.6957	164.0653	87.0857	8.3759	150.4471		7.4324	2.979	3.7003	11841.66	4889.653	1314.175	2149.844	4255.999	833	11695.72	284.7064		112010.3	139890.7	11890.43	127910.3	136034.2	3.6385
0.1647	12.8988	149.2568	86.446	9.9865	139.5138		7.3736	2.8725	3.543	10687.15	4822.868	1307.641	1705.515	3599.125	833	9751.915	284.6262	0.756	114110.7	140047.3	10036.54	130107.0	136816.5	3.495
-0.1531	11.3166	178.9957	85.666	7.4578	145.5788		7.2756	3.1389	3.9361	11385.13	4923.61	1317.548	1793.868	4115.109	833	11316.55	285.2874		111009.4	138511.3	11601.84	126909.4	134776.6	3.8693
-0.9001	11.9789	112.6117	86.612	6.3271	149.8815		6.3271	2.4853	2.9004	10800.38	5129.126	1337.961	1645.573	3452.721	833	9384.114	377.8225	0.7834	117691.1	143353	9761.396	133591.1	140210.2	2.8722
-0.993	10.9584	159.2936	86.8825	7.0388	148.6529		5.2017	2.9494	3.6566	11868.99	5372.973	1362.18	1841.904	3984.888	905.0431	10958.44	284.7146		112721.7	139694.9	11243.16	128621.7	136245.7	3.5997
0.193	10.0594	199.1081	88.981	8.635	144.1203		6.1412	3.4553	4.4025	11437.84	5169.401	1341.961	2033.521	3657.961	833	10059.4	286.5443		109349.3	135959.2	10345.94	125249.3	132264.9	4.3302
-1.0623	10.7627	165.923	88.6213	8.1448	150.7787		4.5233	3.0204	3.6713	12134.15	5519.959	1376.779	1955.424	3913.721	966.2628	10762.74	284.9784		112294.3	139242	11047.72	128194.3	135685.7	3.7025
0.9444	10.5758	149.9943	87.3002	6.5466	144.6005		4.2527	2.8594	3.5237	11677.01	5075.908	1332.675	2187.67	3845.754	833	10575.83	284.4688		113675.4	140435.7	10860.3	129575.4	136939.8	3.4724
1.6317	12.6072	155.4592	87.7232	10.0345	149.3911		7.7154	3.5861	4.1651	11848.33	4828.332	1308.056	2179.06	4101.365	833	11223.88	284.5191	0.8903	112922.1	143030.5	11508.4	128822.1	138625.9	3.53
0.3617	10.2691	152.9774	87.6508	7.974	141.0691		6.8826	2.9003	3.584	11239.93	5098.765	1326.006	1939.221	3730.044										

TABLE 5

10 BG Ethanol

\$/146barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Crude oil acreage draws	Crude oil nonharvested acres draws	Crude oil Corn yield draws	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn feed demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
0.1446	11.0513	129.4048	89.6324	9.3427	142.034		6.6343	2.6227	3.1746	11403.87	5062.563	1331.349	1919.399	3855.562	833	10587.65	283.6779	0.958	115520.4	142291.7	10871.33	131420.4	138792.2	3.1325
-0.7624	11.0327	168.4117	87.0653	7.1466	147.3579		5.5677	3.0418	3.7928	11776.35	5293.684	1354.303	1842.48	4011.893	872.0111	11032.71	285.0095	1.1951	11951.8	139169.6	11317.72	127851.8	135526.4	3.7317
0.0444	11.8699	145.8007	87.7195	8.4733	153.3311		6.5266	2.9921	2.2873	12352.18	5409.718	1399.259	2376.891	4744.767	957.1141	10226.05	281.7033	0.8544	113782.5	146884.7	10659.75	134563.2	145602.2	2.6982
2.5375	12.3662	152.2011	88.1464	9.0723	133.9786		8.6714	3.1189	3.6178	10594.11	4621.187	1287.511	2277.698	3172.716	833	8564.386	666.3799	0.6926	114167.8	139298.6	9230.766	130067.8	136327.2	3.5848
0.1615	11.8938	150.3578	88.1326	6.4235	151.9818		5.5044	2.8291	3.4793	11434.16	5307.358	1355.665	2150.798	4325.032	877.7237	11893.84	284.1894	1	113050	141128	12178.03	128950	137207.9	4.232
-0.4206	10.812	163.9079	85.891	8.06	149.6393		5.8684	3.0017	3.7336	11646.57	5225.516	1347.832	1891.727	3931.623	844.8769	10811.97	284.9089	1	12408.9	139405.8	11096.88	128308.9	135833.7	3.6753
-0.5989	12.2292	127.0992	87.8619	8.1601	153.1035		5.6834	2.5657	3.0775	12202.62	5268.602	1351.814	1871.662	4446.969	861.5729	12229.17	283.2614	1	114954.6	143367	12512.43	130854.6	139339.3	3.0321
0.5434	11.1105	182.3391	86.6781	7.2691	146.1791		6.8812	3.1772	3.9926	11607.93	5009.609	1326.036	1997.644	4040.178	833	11110.49	285.4456	1	110843.8	138139.8	11395.94	126743.8	134474.4	3.9253
2.3546	10.7024	110.7709	86.558	8.0088	143.3833		6.8103	2.6201	2.8848	11262.65	5024.426	1327.562	2591.4	3084.216	833	8382.595	661.3037	0.7832	118200.2	143144.1	9043.898	134100.2	140232.9	2.8681
0.1465	12.4047	154.1827	85.016	6.7383	154.8781		6.3171	2.8568	3.52	12198.71	5131.288	1338.175	1983.438	4510.812	833	12404.74	284.2094	1	12500.7	141089.6	12688.95	128400.7	137005.1	3.4604
0.4543	11.4135	174.708	86.5757	9.9876	139.4692		6.4644	3.1204	3.9086	10681.68	4669.95	1292.354	1656.097	3828.285	833	10493.24	285.3516	0.9194	111688	138366.6	10778.59	127588	134897	3.8472
-1.8252	11.4887	195.5392	87.2504	10.6749	141.863		7.1648	3.2895	4.1581	10863.23	4947.622	1319.933	1182.963	4177.712	833	11488.71	285.7552	1	109723.9	137398.3	11774.46	125632.9	133608.1	4.0837
2.0675	12.2072	123.2221	88.2048	8.7521	144.5796		9.1075	3.5048	4.4758	11518.9	4526.702	1378.126	2040.102	4438.97	833	12207.17	286.3367	1	107585.8	135979.3	12493.51	123485.8	131957.6	4.3866
-1.0463	11.894	84.144	87.1066	10.1336	151.4765		4.7389	2.0463	2.3145	11659.6	5473.243	1372.139	1917.419	3547.993	946.8086	9662.361	295.2533	0.8124	120697	146554.6	9957.814	136597	143349.3	2.2963
-0.3632	11.4236	149.9469	86.9043	7.3411	143.896		6.8396	2.826	3.4747	11440.63	5018.092	1326.932	1715.949	4152.959	833	11420.63	284.2433	1	113393.7	140988.6	11704.98	129293.7	137220.8	3.4228
0.8366	11.7353	159.184	86.4625	7.3471	141.7917		7.9315	2.9524	3.6756	11014.88	4781.516	1303.435	1881.418	3813.505	833	10435.5	284.8322	0.8892	112361.5	139581.8	10720.33	128861.5	136130.9	3.6208
0.3648	12.3056	174.2427	86.9685	10.8689	156.8135		7.3117	3.1126	3.8974	11796.71	4915.791	1316.772	1854.373	4474.772	833	12305.63	285.0507	1	110573	139063.6	12590.68	126473	135010.7	3.8263
-1.5968	10.2405	134.2691	87.3634	5.1068	144.5712		6.1916	2.6888	3.2721	11684.25	5483.495	1373.158	1750.719	3723.804	951.0757	10240.46	283.9425	1	115231	141655.4	10524.41	131311	138267.6	3.2287
0.4429	11.2156	127.9384	86.8325	7.444	151.9554		5.8741	2.5904	3.1271	12066.69	5227.284	1347.71	2166.929	4078.406	844.3638	11215.62	283.4938	1	115359.7	142758.8	11499.11	131259.7	139057.2	3.0838
-1.0882	12.5465	212.5669	87.2923	7.9812	154.5662		5.4991	3.4059	4.3299	12258.82	5308.53	1355.758	1751.943	4562.366	878.2027	12546.51	285.9588	1	108136.9	136689.4	12832.47	124036.9	132738.6	4.2433
-0.8615	10.7727	140.3135	87.3504	9.0821	143.426		5.6639	2.3243	2.7317	11225.71	5272.831	1352.234	1791.56	3543.752	863.3399	9703.624	286.4684	0.9008	118455.8	143435.8	9990.093	134355.8	141130	2.7035
1.1875	11.5956	145.4251	87.3859	7.525	153.5799		5.9339	3.4271	3.2265	12265.03	5219.275	1346.914	2397.788	4058.021	841.0278	11159.57	284.1723	1	113806.2	141149.9	11443.74	129706.2	137466.2	3.3758
0.1761	11.9695	95.7469	87.4469	6.1773	156.0238		4.9711	2.1641	2.4985	12679.99	5422.923	1367.141	2262.129	4299.944	925.8475	11821.24	282.029	0.9876	118290.9	146294.2	12103.27	134190.9	142398.2	2.4708
-0.3762	11.7707	124.2556	87.8456	5.6345	142.6333		6.5345	2.5651	3.0888	11217.768	5084.199	1333.498	1772.738	3792.244	833	10372.5	283.512	0.8812	116112.5	142662.5	10656.01	132012.5	139238.4	3.0506
-0.4909	12.5723	138.6661	86.4562	6.8676	154.5991		5.7925	2.6826	3.2632	12304.34	5244.961	1349.466	1884.424	4571.761	851.7263	12572.35	283.6257	1	113747.3	142503.3	12855.97	129647.3	138365	3.2109
0.169	11.8237	179.7868	87.3349	6.458	150.8901		5.2861	3.1319	3.9257	12510.86	5384.678	1360.363	2196.854	4299.541	897.4234	11823.74	285.1866	1	110735.7	138744.6	12108.93	126635.7	134846.7	3.8564
2.1406	10.9408	109.1324	88.2343	6.6595	159.0494		5.0005	2.3609	2.7887	12374.41	5416.566	1366.51	2884.892	3981.247	923.1996	10948.43	282.7661	1	117331.1	144462.3	11231.2	133231.1	140849.9	2.7554
1.4248	11.4213	148.0989	87.8476	7.4453	149.5511		6.8087	3.4771	3.4771	11990.74	5071.444	1320.216	2401.216	4153.242	833	11421.25	284.5676	0.9603	113970.4	140839.7	12310	129270.4	133719.9	3.6409
-1.4248	11.6006	87.659	87.809	2.3655	153.9028		4.679	2.0628	2.349	12072.68	5486.221	1373.428	1802.509	4056.307	952.2116	11139.99	281.7608	0.9803	119538	146959.7	11421.75	135438	141813.1	3.2868
0.9035	11.5569	121.1989	87.5941	7.5762	149.3419		6.269	2.5137	3.014	11950.03	5141.714	1339.211	2235.309	3998.793	833	10976.96	283.2691	0.9498	1161163	143276.6	11260.23	132016.3	139519.9	2.9747
-0.3408	12.2764	161.1158	87.2954	6.6649	138.8988		7.7531	2.9457	3.6512	11194.48	4820.16	1307.273	1540.333	4296.717	833	111430.11	284.5825	0.9613	112201.7	140187	12085.3	128101.7	136296.8	3.5904
1.5775	12.0579	117.9955	87.0834	7.979	151.8405		6.2584	2.4844	2.9708	12011.25	5144.007	1339.439	2453.122	3893.666	833	10495.56	283.2277	0.8704	116663.6	143342.4	10778.78	132563.6	139872.7	2.9342
-0.2882	11.2293	175.0977	87.8592	8.0357	147.5501		6.2538	3.1032	3.8834	11659.93	5145	1339.537	1857.011	4083.638	833	11229.01	285.1831	1	111344.5	138759	11514.48	127244.5	135052.5	3.8187
0.7397	11.4585	152.9229	86.062	7.6593	148.0587		7.2972	2.8687	3.5376	11608.19	4918.936	1317.084	1974.275	4159.897	833	11439.44	284.381	0.9983	113038.1	140662	11723.82	128938.1	136888.1	3.4819
-0.1704	11.1535	108.5236	86.3435	6.1036	142.3161		6.4213	2.4213	2.8199	11161.88	5188.382	1343.846	1934.733	3459.927	833	9443.686	359.1828	0.8467	118096.2	143799	9802.869	133996.2	140643.5	2.7928
-1.1054	10.4511	126.5933	87.4496	9.0069	150.2937		4.935	2.5919	3.1293	11789.43	5430.744	1367.918	1859.256	3800.411	929.1047	10451.13	283.592	1	115851.1	142485.8	10734.72	131751.1	139030.3	3.0888
-1.9839	11.1427	176.8733	86.6972	7.7433	149.6646		4.7184	3.1232	3.9129	11861.96	5472.619	1372.077	11616.815	4051.902	946.5459	11142.74	285.2621	1	111244.8	138572.8	11428	127144.8	134894.1	3.8477
2.1684	12.5879	122.421	86.587	8.227	151.8887		6.9062	3.1909	3.6929	11991.99	5079.452	1333.027	2582.599	3671.912	833	9986.836	283.5115	0.7934	116475.7	142646.1	10270.35	132375.7	139340.1	3.0319
-1.8132	11.3066	162.5516	88.1891	7.8722	149.9614		6.4126	2.9741	3.0692	12044.46	5500.613	1374.858	1697.272	4111.488	958.2052	11306.6	284.7461	1	112302.5	139793.8	11591.34	128202.5	136062.5	3.6333
0.9141	11.0044	126.6943	87.4617	8.3635	149.5711		6.6084	2.5986	3.1407	11513.33	5088.151	1331.904	2170.794	3707.491	833	10164.38	283.6529	0.9237	115793.2	142327.2	10448.05	131879.2	138964	3.1009
-0.2807	12.0253	165.8199	87.8922	7.4458	136.9259		7.1306	2.9879	3.7134															

TABLE 5

10 BG Ethanol

S146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
0.3389	11.4595	117.7222	86.1516	8.9666	138.6269		6.9486	2.655	3.0103	10699.46	4994.475	1324.587	1918.746	3226.651	833	8757.656	563.5725	0.7642	117363.6	142584.8	9321.228	133263.6	139584.3	2.9871
0.6669	12.5478	126.9916	86.5203	9.9648	142.257		7.1238	2.6982	3.1718	10904.78	4956.504	1320.815	1988.656	4301.8	833	9218.236	434.7045	0.7346	116307.8	141860.8	9652.941	132207.8	138753.5	3.1396
1.145	11.411	175.9075	86.7575	7.1304	151.4003		6.9875	2.4177	2.8724	12396.62	5224.384	1348.226	2059.946	4047.303	843.2668	1172.114	1441.62	0.9742	117170.3	144192.2	11498.95	132233.2	131440.7	2.8362
-2.3409	10.6727	154.0941	87.333	7.5248	145.4499		4.6825	2.9015	3.5859	11608.1	5485.467	1373.353	1514.409	3880.971	951.8969	10672.67	284.5958	0.983	113282.4	140139.7	10957.27	129182.4	136612.5	3.5324
0.2252	11.2116	134.0247	86.7096	8.5432	147.6981		6.7222	2.6671	3.2402	11545.05	5043.532	1329.459	1927.634	4009.42	833	11020.89	283.7714	0.983	114887.9	142092.6	11304.66	130787.9	138453.6	3.1946
0.9119	11.599	129.3947	88.2526	7.9248	142.4478		6.7801	2.6328	3.1895	11444.52	5030.976	1328.212	2135.781	3712.552	833	10150.91	283.7659	0.8752	115728.2	142462.9	10434.67	131628.2	138704.3	3.1487
-0.4639	10.847	141.1574	87.7439	8.2048	140.6912		6.9006	2.754	3.3884	11176.01	5004.873	1325.619	1671.423	3939.1	833	10832.32	284.0388	0.9986	114331.8	141268.2	11116.41	130231.8	137769.8	3.3201
0.6994	10.4302	112.2943	87.8905	8.1593	150.2209		5.6581	2.413	2.8654	11977.3	5274.082	1352.358	2292.197	3792.804	863.8553	10430.21	282.9664	1	117266.6	143879.8	10713.21	131666.6	140431.2	2.8317
-0.2906	10.7926	150.2511	88.7597	8.7206	155.6836		4.1235	2.8566	3.5196	12603.17	5606.568	1385.382	2282.29	3924.597	1002.336	10792.64	284.4297	1	113555.6	140532.7	11077.07	129455.6	136967	3.4674
0.4458	11.0903	128.9496	87.7404	8.7274	155.4888		5.3752	2.6	3.1412	12285.64	5335.363	1358.445	2267.612	4032.843	889.3788	11090.33	283.5408	1	115367	142640.8	11373.87	131267	138979.6	3.0981
-0.2179	12.7929	179.7756	88.2016	6.6048	147.3722		6.7694	3.1036	3.8841	12025.09	6033.291	1328.442	1776.383	4651.972	833	12792.93	284.9477	1	110327.3	139305.1	13077.88	126227.3	135095.4	3.8108
-0.749	10.4246	149.1943	87.7826	6.6602	139.7873		5.9839	2.8545	3.5165	11339.58	5203.493	1345.347	1763.538	3790.747	834.4548	10424.56	284.4731	1	113812.7	140421.7	10709.03	129712.7	136974.4	3.466
0.5586	11.777	166.3276	88.1997	6.6822	150.8658		5.9231	2.9999	3.7311	12281.16	5216.662	1346.655	2194.119	4282.529	839.9398	11776.96	284.7629	1	111794.6	139756.3	12061.72	127694.6	135873.6	3.668
-0.2772	11.5098	137.3633	87.8329	9.0798	141.1559		7.0192	2.7158	3.3121	11116.46	4979.162	1323.068	1707.48	3871.735	833	10613.89	283.9652	0.9222	114773.7	141571.6	10897.87	130673.7	138063.6	3.2662
-2.2293	11.3509	146.876	87.5983	8.842	151.5634		5.9061	3.4437	11936.72	5242.018	1348.173	1955.415	4127.515	850.5005	11350.95	284.1837	1	113959.2	141128.4	11635.13	129493.2	137383	3.391	
0.8382	11.7908	137.6917	87.4147	8.9581	148.8368		6.9585	2.7073	3.2995	16777.57	4982.316	1324.372	2076.509	4403.373	833	11111.99	283.8928	0.9424	114513.5	141809.4	11395.88	130413.5	138141	3.2519
-0.093	12.7198	146.6431	87.8146	8.2887	152.2849		6.6049	2.7674	3.3884	12110.6	5068.947	1331.983	1849.278	4625.391	833	12719.83	283.8793	0.93	112989.9	141893.6	13003.71	128889.9	137077.8	3.3315
-0.1923	10.7671	140.3076	87.0899	8.1914	139.0306		7.19	2.7658	3.857	10831.66	4942.158	1319.39	1700.454	363.657	833	9965.711	284.2372	0.9256	114807.3	140957.2	10249.95	130707.3	137657.8	3.3406
-2.1005	12.1042	141.9913	88.2229	10.621	151.2343		5.571	2.7316	3.3355	11736.07	5292.959	1354.233	1413.644	4041.512	817.7176	11204.16	283.8443	1	113672.5	141960.5	12388	129572.5	137972.8	3.2828
3.1959	10.9996	172.9401	87.7645	9.6475	152.7645		7.8889	3.0883	3.8614	11974.88	4790.741	1304.351	2644.92	3999.87	833	10999.64	285.1865	1	111609.8	138794.6	11284.81	127509.8	135162	3.7986
0.7113	10.2108	128.6441	87.3121	9.6473	150.7888		6.022	2.6223	3.1741	11710.99	5195.223	1344.526	2223.204	3713.034	833	10210.85	283.7234	1	115770.8	142165.3	10494.57	131670.8	138877.1	3.1334
-0.3415	12.0344	129.2578	87.4656	6.6629	142.4263		6.6229	2.6119	3.1588	11382.54	5055.511	1330.649	1757.351	4004.033	833	10970.45	283.595	0.9116	115352.7	142506.7	11254.04	131252.7	138884	3.1156
-0.7555	11.4062	146.3436	88.1385	8.9597	150.7349		5.5059	2.7988	3.4344	11947.06	5307.062	1355.634	1857.062	4147.708	877.5913	11406.2	284.1556	1	113606.2	141196.6	11690.35	129506.2	137433.5	3.3818
-0.6313	12.6611	143.1431	86.8649	8.5447	143.7195		7.2443	2.7669	3.3875	11331.12	4930.395	1318.222	1549.112	4098.471	833	11212.96	284.0765	0.8856	113981.3	141378.3	11497.04	129881.3	137677.4	3.337
-0.2287	11.8063	165.8366	86.5	8.4843	150.15		6.6525	2.9941	3.7225	11714.06	5058.62	1330.958	1796.298	4293.181	833	11806.25	284.7397	1	118280.8	139811.8	12090.99	127720.8	135917.9	3.6596
1.5308	11.9985	138.1302	87.7058	8.3878	144.2096		7.1873	2.738	3.3447	11441.13	4942.759	1319.45	2252.4	3939.182	833	10071.59	284.1297	0.8394	114985.7	141211.4	10355.72	130855.7	137877.9	3.3002
0.1813	11.5528	133.3642	88.9438	8.1204	151.908		5.4014	2.6466	3.21	12277.73	5323.698	1357.882	2100.11	4201.818	887.0193	11552.8	283.637	1	114968.6	142435	11836.44	130598.6	136624.9	3.1632
-0.092	11.318	163.9782	86.7855	6.5579	144.9504		8.4205	3.9843	11836.74	4673.58	1356.73	1967.53	4297.778	850.175	11063.48	283.5937	0.9055	110705.2	139351.7	12979.48	126372.2	135173.6	3.7965	
0.0862	11.2353	194.4561	87.8082	7.7408	150.8538		5.1164	2.1742	2.5132	12078.47	5391.456	1364.016	2237.28	3770.874	912.7415	10336.49	282.2072	0.92	112021	141971.1	10618.7	135101	142620.5	3.4825
0.4598	12.2356	178.4097	86.6243	8.1702	150.022		7.3844	3.1066	3.8885	11769.85	4900.055	1315.209	1870.267	3449.322	833	12235.64	285.0149	1	110665.1	139085.7	12520.68	126565.1	135055.3	3.8182
0.4369	12.3308	117.3355	88.0646	8.2259	138.2933		6.5553	2.5707	2.9932	11041.16	5058.019	1330.898	2008.753	4408.423	833	9241.161	421.7188	0.7494	117254.4	142817.3	9662.88	133154.4	139706.8	2.9646
-0.0574	12.9817	186.443	86.7643	9.2483	157.7654		6.5771	3.1608	3.9685	12229.34	5074.957	1332.58	1866.192	4270.611	833	12981.68	285.1021	1	109760	139826.8	13266.78	125660	134656.2	3.8914
0.7817	10.7786	129.9235	87.2083	5.9955	145.4353		6.2244	3.1772	11951.99	5200.966	1345.096	2251.03	3919.493	833	10272.61	283.866	1	115381.3	142343.6	11062.27	131281.3	138782.7	3.1342	
0.054	11.4812	186.1037	85.2278	8.5563	140.0166		6.6181	3.2097	4.0405	10735.28	4632.374	1288.657	1493.66	4085.227	833	11227.25	285.5436	0.9779	110514.8	139276.2	11512.78	126414.8	134221.6	3.9711
0.4545	12.8267	144.9317	86.7119	10.1426	136.7439		7.945	2.9223	3.4845	10466.28	4778.591	1303.144	1756.453	3393.091	833	9175.672	459.0209	0.7154	114650.9	140185.6	9634.693	130550.9	137084.2	3.4459
0.7828	11.6171	139.2007	87.9906	8.7982	155.2657		4.9198	2.7123	3.3069	12297.26	5217.376	1346.726	2266.532	4224.384	840.2371	11617.06	283.8442	1	114143.3	141944.2	11900.9	130043.3	138113.3	3.257
-1.287	12.0672	173.3398	86.7483	6.7942	157.6706		5.3131	3.062	3.8227	12606.46	5548.61	1379.625	1909.968	4388.064	978.1959	12067.18	284.9224	1	111122	139731.1	12352.1	127022	135398	3.7553
-0.2475	11.398	155.9598	85.7116	5.2725	153.444		5.0588	2.9023	3.5872	12342.89	5403.927	1365.255	2109.044	4144.731	913.954	11398.01	284.972	1	112802.8	140385.3	11682.51	128702.8	136624.7	3.5302
0.9989	11.6921	119.5871	85.8159	7.4852	152.5615		5.7921	2.4778	2.9611	11949.79	5245.046	1349.474	1849.884	4251.663	851.7616	11692.07	283.0976	1	115025.2	143800.4	11975.14	131825.2	139945.6	2.9208
-0.264	12.6945	178.3882	86.1797	6.3336	151.7788		7.1327	3.0391	3.8687	11915.39	4954.387	1320.625	1688.991	4616.197	833	12694.55	284.2341	1	110472.2	139351.7	12979.48	126372.2	135173.6	3.7965
0.7376	10.8716	207.4965</																						

TABLE 5

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
-1.4278	10.5225	126.6579	87.7199	9.3074	153.0523		4.3922	2.591	3.128	11999.1	5548.364	1379.601	1864.665	3826.373	978.095	10522.53	283.5804		115810.9	142517	10806.11	131710.9	139038.5	3.0873
-1.4412	12.9553	139.6704	87.4463	7.9642	154.6597		5.5026	2.6944	3.266	12292.69	5307.778	1355.705	1638.301	4711.014	877.8994	12955.29	283.5828		113481.6	142620.5	13238.87	129391.6	138358.9	3.212
-1.0792	12.0545	131.8257	89.0191	8.4474	145.9247		6.5115	2.6198	3.1702	11558.76	5098.42	1333.047	1699.532	833	1044.14	12532.64	283.5828	0.9921	115644.2	142620.5	12349.24	125432	137943.7	3.23
-0.4006	12.6671	120.8179	88.2388	8.2949	149.9703		6.1559	2.4839	2.9701	11989.21	5166.214	1341.644	1840.63	4405.716	833	12096.79	283.0407	0.955	115610.3	143890.1	12379.83	131510.3	139905	2.9283
-0.1636	12.0834	183.2011	85.1098	8.5363	144.2686		8.1234	3.1569	3.9627	11047.15	4739.927	1299.304	1378.973	4393.949	833	12083.36	285.2284		110372.1	138640.7	12368.59	126272.1	134659.2	3.8908
1.0971	11.7787	141.5109	88.4218	9.2789	146.5411		7.1579	2.7655	3.372	11597.69	4949.128	1320.083	2109.459	3973.985	833	10895.8	284.0835	0.925	114271.2	141351	11179.89	130171.2	137522.2	3.3233
-0.5963	10.9873	180.5706	87.7148	7.7647	154.6256		4.5281	3.1638	3.9727	12362.33	5518.908	1376.675	2153.559	3995.366	965.8252	10987.26	285.4201		111028.8	138201.5	11272.68	126928.8	134572.8	3.9067
-1.5568	11.0676	170.2535	86.0894	9.3031	150.3307		5.5516	3.0595	3.8189	11543.33	5297.153	1354.65	1951.492	4024.57	873.4643	11067.57	285.0628		111791.2	139043.8	11352.63	127691.2	135389.4	3.7569
1.6156	11.7941	110.9294	87.4567	8.8327	154.4111		5.9323	2.3955	3.8287	12141.04	5214.665	1346.457	2530.542	808.267	839.1078	10417.35	282.9395	0.8829	117411.9	144012.2	10700.28	133311.9	140567.8	2.8067
-1.4652	10.8004	118.398	87.9068	7.8123	154.6795		3.823	2.4803	2.9646	12388.98	5671.693	1391.85	1966.544	3927.429	1029.46	10800.43	283.1785		116494.9	143478.6	11083.61	132349.9	139910.7	2.9272
0.7393	9.9865	115.3621	85.8254	7.574	148.1279		6.0149	2.4651	2.9423	11591.22	5196.782	1344.68	2233.611	3581.15	833	9844.59	283.2378	0.9858	117244.8	143272.7	10127.83	133144.8	140012.5	2.9085
-0.1592	11.0469	84.9758	87.1487	7.7372	148.6025		4.8479	2.0841	2.3326	11800.75	5449.614	1369.792	2179.473	3462.908	936.9643	9457.391	345.0342	0.8561	120695.2	146397.6	9802.425	136595.2	143242.2	2.3159
0.352	11.4235	186.7499	87.6876	8.3506	146.3023		7.0029	3.21	4.0409	11607.18	4982.896	1323.417	1912.057	4154.013	833	11423.54	285.5046		110385.7	137999.7	11709.04	126285.7	134225.6	3.9704
0.708	12.5452	160.4402	87.4757	6.0977	145.3321		7.5736	2.9223	3.6167	11829.72	4859.06	1311.137	1911.853	4512.669	833	12406.56	284.2407	0.9889	111898.3	140580.3	12690.98	127899.3	136495.1	3.554
-1.8972	10.5639	151.308	86.2837	6.0738	144.4366		5.5199	2.6741	3.5455	11293.65	5304.03	1355.333	1514.521	3941.432	876.3297	10593.94	284.5195		113568	140316.6	10948.59	129468	136824.4	3.4935
-0.0245	11.4756	136.3848	87.3418	7.6113	156.8966		4.387	2.7651	3.1443	12303.45	5549.479	1379.711	2026.751	4172.947	878.5579	11475.81	284.1015		113867.2	141326.9	11759.71	129567.2	137541.5	3.362
1.1499	11.7644	99.8076	87.3774	7.1434	151.2356		5.4608	2.2552	2.6327	12093.4	5316.819	1356.603	2475.798	3660.528	881.6552	9992.928	282.5138	0.8494	118793.8	144969.3	10275.44	134693.8	141611.6	2.6059
-0.2345	12.3592	145.6403	87.9104	6.9661	153.3596		5.4608	2.7657	3.857	12413.58	5287.898	1353.703	2006.099	4494.248	869.6094	12359.18	283.9212		113240	141783.2	12643.11	129140	137713.3	3.3304
-0.2997	12.2285	101.2862	86.2706	8.7242	146.7223		5.6742	2.303	2.6734	11377.79	5270.6	1352.012	1969.276	3521.498	862.4407	9570.543	322.0108	0.7826	118823.8	144616.4	9892.554	134723.8	141432	2.6481
2.1246	10.3951	149.7692	86.5577	6.2021	152.8039		6.7548	2.8616	3.527	11909.18	5036.468	1328.758	2528.925	3780.032	833	10395.09	284.5009		113776.3	140355.9	10679.59	129676.3	136918.1	3.4763
-0.3229	11.9752	99.2913	87.2974	6.0626	143.2884		5.7541	2.3236	2.639	11211.57	5253.286	1350.219	1945.863	3404.938	855.1935	9426.858	407.5853	0.7722	119148.5	144703.9	9654.444	135049.5	141596.2	2.818
2.3777	10.9255	111.456	86.412	9.1535	155.3548		5.8411	2.3995	2.8455	12466.98	5234.424	1348.419	2792.65	3824.148	847.3374	10554.36	282.9375	0.966	117290.2	144027.5	10837.3	133190.2	140539	2.6119
1.423	11.2133	118.4159	86.6926	6.2818	151.2079		6.2523	2.4951	2.9865	11865.96	5145.332	1339.57	2404.9	3741.161	833	10251.67	283.2917	0.9142	116740.9	143175.8	10534.96	132640.9	139784.6	2.9504
2.2125	11.9398	199.5849	86.5835	8.189	148.5569		6.7003	3.1222	4.1916	11646.04	4614.805	1286.877	2167.832	4341.527	833	11939.32	285.7561	0.9999	109256.8	137381.7	12224.95	125156.8	133446.5	4.1134
-0.4424	10.7809	157.3439	89.325	9.0312	147.333		6.0274	2.9335	3.6331	11829.93	5194.074	1344.411	2136.107	3920.337	833	10780.93	284.687		112961.7	139927.3	11065.62	128671.7	136365.3	3.5778
-1.1006	10.9713	172.2722	87.9745	7.4191	149.8054		4.7694	3.0825	3.8528	12067.64	5466.621	1371.482	1893.933	3989.581	944.0476	10971.31	285.1533		111674.1	138830.6	11256.46	127574.1	135207.1	3.7903
-0.7975	11.4904	177.6193	86.6349	8.2488	142.4072		5.7636	3.1205	3.9089	11191.23	5251.211	1350.086	1155.286	4178.314	854.3294	11490.37	285.2003		111040.5	138716.1	11775.57	126903.3	134925.5	3.842
0.4898	10.8309	151.8579	87.4873	6.9653	153.873		6.8335	2.6475	3.2113	12102.58	5278.444	1352.791	2229.821	3941.432	865.6719	10593.94	284.5195		113568	140316.6	11759.71	129567.2	137541.5	3.362
-2.2806	11.6059	198.5758	86.4837	9.055	152.8093		6.5967	3.1213	4.1918	11831.83	5070.708	1332.158	1973.632	4203.34	833	11605.92	285.8111		109470.3	1371262	11891.73	126570.3	133434.1	4.1156
-1.8621	10.4557	120.173	87.0422	8.716	149.6503		4.7295	2.5127	3.0124	11721.53	5475.268	1372.341	1722.207	3802.068	947.6491	10455.69	283.3266		114668.8	143107.8	10739.01	132368.8	139509.9	2.9749
-0.0346	11.8626	133.8502	86.8302	7.7312	153.3673		5.9067	2.6448	3.2074	12131.9	5220.219	1347.008	2007.586	4133.663	841.4212	11862.58	283.5925		114508.9	142555.1	12146.17	130408.9	139645.2	3.1594
0.5124	12.5642	151.9083	87.7828	8.3142	153.8872		6.6472	2.8283	3.4781	12229.2	5059.78	1331.073	2034.544	4568.802	833	12564.21	284.096		112617.7	141366.1	12848.31	128517.7	137320.2	3.4191
1.0936	11.2576	153.3982	87.8677	9.1791	155.9715		5.9062	2.8786	3.5522	12273.17	5220.317	1347.018	2368.704	4093.671	841.4621	11257.6	284.4387		113079.6	1405216	11542.03	128979.6	136806.3	3.4969
-0.0237	11.0507	163.7249	88.2075	8.0219	145.6669		6.2517	2.9932	3.7212	11680.57	5145.472	1339.584	1942.072	4018.44	833	11050.71	284.8643		112319.5	139555	11335.56	128219.5	135906.1	3.662
0.8047	10.5179	137.4971	87.4312	7.5341	138.5783		5.7341	2.8433	3.3592	10704.56	4867.621	1311.987	1950.707	3339.249	833	9126.128	470.1521	0.8677	115340.7	140837	9596.28	131240.7	137748	3.3241
0.2978	11.4398	143.7854	87.4505	8.901	146.3242		7.0853	2.7731	3.3966	11493.7	4964.846	1321.644	1878.244	4093.665	833	11253.55	284.0915	0.9837	113906.4	141344	11537.64	129862.4	137630	3.3457
0.2139	11.7131	204.8817	88.9043	9.0533	157.3131		5.1411	3.3661	4.2712	12561.61	5386.091	1363.483	2240.236	4259.299	910.5068	11713.07	285.9694		108982.3	136881.3	11999.04	124882.3	133018.9	4.1918
0.8348	11.6215	191.3555	86.7038	8.5896	143.3413		8.0177	3.2471	4.0956	11196.99	4762.824	1301.578	1671.599	4252.989	833	11621.48	285.5948		109968.8	137775.9	11907.07	125868.8	133943	4.0223
0.2732	10.8585	148.2241	87.4287	7.0815	144.6194		6.8596	2.8326	3.4842	11619.75	5013.745	1326.501	2095.976	3948.53	833	10858.46	284.341		113700.3	140743.1	11142.8	129600.3	137156.3	3.4326
-0.9194	10.9403	121.2283	89.4894	9.3953	153.3308		6.1815	2.5475	3.0158	12104.98	5462.795	1371.1	1949.346	3973.304	942.4489	10940.34	283.2773	0.9388	116131.2	143241.6	11229.61	130331.2	133641.9	2.9765
1.1456	11.7296	113.5534	86.6317	7.0821	140.9914		5.7034	2.4528	3.1929	10720.78	5160.674	1341.094	1436.993	3971.017										

TABLE 5

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
0.7326	10.0118	164.5963	88.3657	8.3228	148.643		5.5407	3.0308	3.7764	11897.81	5299.52	1354.885	2326.291	3640.667	874.4501	10011.84	285.1232	1	112701.6	13898.66	10296.96	128601.6	135584	3.7212
2.1876	11.5986	110.9485	89.1962	8.4241	148.1232		6.09	2.4278	2.8639	11964.7	5180.5	1343.063	2682.043	3524.096	833	9607.89	313.8087	0.829	117792	143613.7	9921.699	133692	140419.9	2.8338
0.6128	10.8535	167.4046	86.6522	7.4447	155.8237		5.3784	2.9298	3.6273	12287.62	5304.9	1358.377	220.416	3893.086	889.0261	10533.49	284.6496	1	112875.8	143613.7	9921.699	133692	140419.9	3.5713
0.2001	12.199	145.0257	86.8969	6.7341	152.8016		6.1074	2.763	3.3817	12232.97	5176.73	1344.689	2042.564	4435.991	833	12198.98	283.9336	1	113366	141769	12482.91	129266	137370.1	3.3272
-0.1165	11.9344	168.6233	86.3845	7.1412	152.3559		6.0212	3.0187	3.7859	12073.19	5195.397	1342.543	1958.466	433.782	833	11934.4	284.8014	1	111545.3	131464.5	12219.2	127445.3	135731.1	3.6942
-0.3412	12.1476	100.8139	86.382	9.9095	154.9344		5.4168	2.2523	2.6284	11941.18	5326.361	1357.551	207.442	3962.198	885.6259	10844.55	282.4167	0.8927	118251	145278	11126.96	134151	141696.2	2.5996
-0.2026	11.4832	206.206	87.9724	7.1944	144.0861		6.7146	3.3849	4.2989	11577.75	5045.172	1329.622	1792.24	4175.718	833	11483.23	286.0694	1	109893.5	136652.8	11769.3	124883.5	132864.3	4.2202
-1.6235	11.4818	135.9973	88.0388	10.1783	142.6131		6.7056	2.6804	3.2599	11103.93	5047.114	1328.815	1339.347	4152.657	833	11418.55	283.765	0.9945	114522.6	142142.9	11702.32	130422.6	138357.9	3.2122
1.5421	10.4654	133.3456	87.9939	9.6155	149.4346		6.7317	2.6756	3.2526	11726.104	5041.456	1329.253	2347.109	3759.626	833	10335.82	283.8861	0.9876	115271.7	141791.4	10619.71	131171.7	138372.9	3.2994
-1.2277	11.2007	156.2198	86.6554	9.3293	152.534		5.3666	2.9104	3.599	11794.85	5337.245	1358.632	1733.829	4072.982	890.1265	11200.7	284.5512	1	112868.9	140254.2	11485.25	128768.9	136557.1	3.5426
0.1067	11.3578	129.5103	87.3738	7.271	150.4097		6.4098	2.6063	3.1506	12048.25	5111.199	1336.18	2243.37	4122.498	833	11336.55	283.5513	0.9981	115155.5	142675.6	11620.08	131055.5	138935.1	3.1063
-0.0125	11.4365	172.6418	88.7259	7.4319	150.0151		4.8915	3.073	3.8388	12520.5	5440.186	1368.856	2217.699	4158.713	933.0373	11436.48	285.0524	1	111446	139067.6	11721.53	127346	135294.4	3.7743
0.0362	11.1637	203.3431	86.1771	5.9001	137.8909		7.7838	3.3697	4.2764	11069.47	4813.51	1306.613	1654.832	4509.511	833	11163.66	286.0726	1	109307.9	136657.6	11449.73	125207.9	132971.9	4.2004
-0.5732	11.4063	160.823	85.4535	7.0759	142.5128		7.3111	2.9534	3.6625	11169.82	4915.931	1316.785	1554.354	4147.744	833	11406.3	284.6664	1	112396.6	139989.5	11690.96	128298.6	136226.2	3.6033
-0.0033	10.019	135.905	88.1107	8.212	142.0005		6.1738	2.7133	3.3083	11346.01	5122.335	1341.259	1984.162	3843.258	833	10018.96	284.9535	1	115183.7	141398.7	10303.01	131093.7	138070.2	3.2649
-0.5825	11.7936	136.4009	87.0114	9.8695	150.9261		6.5484	2.6759	3.2533	11642.73	5081.624	1333.243	1704.328	4288.532	833	11793.46	283.7028	1	114311.2	142288.4	12077.17	130211.2	138400.9	3.2043
0.4185	12.2141	129.0959	87.8262	8.3871	136.8783		7.1444	2.7091	3.2077	10842.43	4952.409	1320.373	1905.038	3429.971	833	9308.04	408.5169	0.7621	116079.5	141696.1	9716.556	131979.5	138568.3	3.1735
1.3368	11.7194	185.1742	85.6773	9.2872	151.5671		8.2547	3.1864	4.0061	11481.37	4711.485	1296.479	1976.827	4261.576	833	11719.33	285.3807	1	110378.6	138283.3	12004.71	126278.6	134419	3.9349
1.0652	11.8766	150.9342	86.9181	7.5291	143.8729		7.5382	2.8614	3.5268	11421.82	4866.729	1311.899	2033.225	3975.064	833	10894.38	284.4318	0.9173	113451.4	140530.2	11178.81	129351.4	136931.8	4.7389
-0.6454	11.0121	119.8838	87.5554	9.2299	145.7232		6.1713	2.5022	2.9971	11413.83	5162.876	1341.313	1759.199	3591.645	833	10760.35	283.2563	0.9771	116349.2	143292.8	11043.61	132249.2	139737.9	2.9589
0.8171	11.5302	119.0381	87.395	8.5355	150.6366		6.2122	2.4912	2.9808	11879.14	5154.021	1340.433	221.094	3930.641	833	10782.39	283.217	0.9351	116421.3	143866.9	11065.61	132321.3	139824.8	2.943
-0.1882	10.6139	182.3387	88.4642	8.1037	139.6491		7.5435	3.1898	4.0111	10903.04	4865.577	1311.784	1631.094	3859.589	833	10613.88	285.5647	1	111066.9	137866.3	10899.44	126966.9	134357.8	3.9462
-1.2491	10.1179	115.4481	86.9297	5.7696	156.0806		2.957	2.4603	2.9352	12667.53	5859.319	1410.486	2208.893	3679.223	1107.606	10117.86	283.1903	1	117102.1	143403.2	10401.06	133002.1	140055.1	2.9007
1.1904	11.4395	227.8893	87.4184	9.9842	136.9052		7.9653	3.569	4.5704	10697.72	4774.188	1302.707	1226.018	4159.803	833	11439.46	286.6813	1	107577.7	135203.8	11726.14	123477.7	131429.2	4.4835
-0.4081	10.7098	119.4289	88.0715	6.1808	144.6885		5.4263	2.4954	2.987	11847.01	5324.3	1357.346	1984.135	3894.458	884.7708	10709.76	283.2995	1	116435.9	143328.9	10993	132335.9	139790.3	2.9493
-0.3787	12.3968	174.4067	88.197	9.8785	150.0875		6.9405	3.0631	3.8243	11754.62	4996.225	1324.761	1690.716	4507.923	833	12396.79	284.8769	1	110899.4	139481.1	12681.67	126799.4	135398.8	3.7551
-0.5683	12.3448	95.2859	86.5727	7.5528	149.7471		5.2346	2.1911	2.5382	11633.01	5365.847	1361.473	1971.232	3830.388	902.0753	10454.98	282.2524	0.8469	118899.2	145626.4	10737.23	134889.2	142170.1	2.5126
1.1726	11.1849	124.7357	87.3695	6.5906	155.0477		5.4312	2.5524	3.0711	12521.04	5252.241	1347.281	2488.98	4607.243	884.3299	11184.92	283.3723	1	115678.7	143305	11468.3	131576.7	138353.4	3.0296
1.2407	11.5218	142.2358	86.74	6.9446	152.3558		6.2967	2.7514	3.9645	11920.88	4992.71	1324.411	2208.68	4163.075	833	11446.91	283.2946	1	109358	139494.4	141580.1	11730.91	129849.4	3.1338
2.315	11.8505	151.1672	87.3087	9.8812	141.3526		8.2091	3.0699	3.589	10906.42	4721.36	1297.46	2298.973	3533.625	833	9104.985	486.0036	0.7683	114118.3	139609.2	9590.989	130018.3	136521.9	3.5449
0.6992	11.2029	215.9571	87.4064	7.1732	156.4927		5.0947	4.436	4.2555	11391.55	5396.145	1364.482	2404.8	4073.787	914.6945	11202.92	286.4228	1	108439.2	135828.6	11489.34	124339.2	132130.1	4.3549
-1.5558	11.9176	171.1464	88.2251	8.6019	151.7156		5.1214	3.0445	3.7969	12080.09	5390.363	1363.907	1677.87	4333.661	912.2861	11917.57	284.8877	1	11355.7	139458.1	12202.46	127255.7	135530.1	3.731
-1.9888	10.8495	189.1054	87.9574	8.8096	149.7502		4.555	3.2493	4.0988	11852.4	5513.081	1376.096	1652.567	3964.256	963.3982	10849.55	285.7252	1	110450.3	137485.4	11135.18	126350.3	133901.4	4.03
0.4153	12.6366	226.0506	87.2455	8.9539	141.3683		9.2865	3.5144	4.49	11067.95	4887.932	1324.275	1475.616	4595.131	833	12636.61	284.2927	1	107236.1	136059	12922.9	123136.1	131899.1	4.3973
-1.0069	10.2926	138.5439	86.2981	6.3949	146.2929		5.2651	2.7374	3.3438	11542.97	5340.388	1358.944	1807.368	3742.777	891.4715	10292.64	284.0988	1	114815.7	141292.5	10576.74	130715.7	137887.8	3.2984
-0.3409	11.5986	139.1755	88.2902	9.9332	157.0267		5.2315	2.7124	3.3071	12294.71	5366.514	1361.539	2044.621	4217.684	902.353	11598.63	283.8471	1	114154.1	141936.6	11882.48	130054.1	138111.6	3.2574
-0.6818	9.8462	175.6025	86.311	7.9841	144.678		6.3634	3.1478	3.9489	11332.19	5277.875	1352.735	1853.707	3580.442	865.4348	9846.219	285.5425	1	111893.1	137924.8	10131.76	127793.1	134663.4	3.8901
-0.8133	11.623	199.0813	88.7814	9.56	153.1997		8.1212	3.3174	4.1993	12136.69	5360.073	1360.899	1887.5	4226.551	899.6705	11623.03	285.4249	1	109419.7	137228.5	11908.86	125319.7	133395.1	4.1228
-1.0276	11.7863	150.5449	85.9474	6.4679	155.8144		4.8058	2.854	3.4864	12368.16	5458.749	1370.7	1910.025	4285.914	940.769	11786.27	284.2197	1	113082.7	141053.2	12070.49	128962.7	137167.7	3.4306
-0.2798	12.2894	136.3422	87.1707	6.6311	155.9188		6.5712	2.6447	3.2367	11860.51	5063.233	1331.419	1784.255	4446.57	833	12227.33	283.6113	0.9966	114114	142524.9	12510.94	130014	138497.6	3.1985
0.1247	10.6785	167.7332	87.7436	9.0801	147.9105		6.5938	3.0431	3.7046	11635.15	5071.243	1332.241	2113.136	3885.454										

TABLE 5

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil prices draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws			PS of Corn Growers	CS of Domestic Feeders	CS of Food users	PS of Ethanol Producers	Government Revenue	CS of Fuel users	PS of gasoline producers	Total ethanol demand	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of Corn Importers	PS of Ethanol Producers	Government Revenue	CS of Fuel users	PS of gasoline producers
							Mandate								Tax Credit								
0.4205	10.4929	184.1007	87.1205	8.0139	147.1587	72209.93	61349.12	41758.73	8375.108	-4888.77	1651801	638974.7	10778.52	72209.93	61349.12	41758.73	10961.86	8375.108	-4888.7086	1651801.206	638974.7		
0.3981	11.7229	86.6054	86.2746	6.9964	144.8778	68263.25	62694.96	42107.49	43.3283	-4204.75	1870364	360212.4	9146.428	63771.72	64749.82	42635.56	14276.92	10.9329	-3961.1144	1988100.773	363172.1		
0.0028	12.5522	147.0057	86.9869	8.7415	145.2682	81252.63	65659.24	42701.97	93.934	-5047.93	1448253	471098.7	12552.552	147.0057	1347.98	1347.98	1347.98	1347.98	-570.8882	1461700.637	531396.2		
0.5026	11.2758	179.2153	87.6983	6.1548	153.8186	64485.64	68691.53	41380.57	11448.79	-5257.24	1665891	622471.2	11561.11	64485.64	68691.53	41380.57	13916.86	11448.79	-5257.2409	1665890.973	622471.2		
-0.1064	11.8679	132.3988	87.3343	7.2871	145.4265	77528.01	59015.62	41140.15	1102.634	-5116.73	1765029	491918.8	11778.8	59015.62	41140.15	8408.57	1102.634	-5364.1908	1765029.239	491918.8			
-1.1974	10.5843	187.2439	87.6272	7.8215	143.8115	65897.36	63406.64	42290.98	9811.172	-4931.48	1646624	646695.9	10870.04	65897.36	63406.64	42290.98	6850.75	9811.172	-4931.4798	1646623.674	646695.9		
-0.1128	12.123	161.9905	87.5121	7.2125	150.3663	74592.51	61479.07	41792.5	6531.086	-5656.92	1704523	572616.9	12407.5	74592.51	61479.07	41792.5	9296.347	6531.086	-5656.9206	1704522.64	572616.9		
0.8821	10.7621	138.6308	85.5072	8.0096	140.4691	81768.97	54788.31	40023.03	578.048	-4417.49	1740423	511793	9784.896	80593.11	55315.88	40164.92	10015.97	510.4315	-4364.7614	1739537.451	518189.7		
0.1004	11.4951	161.9156	86.7282	6.5129	144.2727	80510.45	57523.74	40754.18	3934.833	-6561.49	1709027	575236.4	11779.77	80510.45	57523.74	40754.18	8470.985	3934.833	-5361.6791	1709026.545	575236.4		
0.6591	10.5443	137.1664	87.5935	8.1372	151.8483	66909.86	64785.02	42644.58	5068.193	-4916.68	1748917	509721	10828.33	66909.86	64785.02	42644.58	13245.4	5068.193	-4916.6832	1748917.079	509721		
-1.5781	10.8322	193.7777	87.2955	8.4999	147.5539	60680.99	66526.45	43088.05	12433.98	-5047.5793	1636529	662273.6	11118.06	60680.99	66526.45	43088.05	6815.874	12433.98	-5047.5793	1636528.665	662273.6		
-0.1779	11.9793	108.3127	87.7444	7.9433	146.1228	67156.69	62895.11	42159.16	255.4959	-4752.73	1816984	424969.9	10090.01	67156.69	62895.11	42159.16	9624.39	255.4959	-4752.7292	1816984.258	424969.9		
-1.6628	11.0859	133.4481	87.8418	7.6189	154.3716	49003.59	73420.72	4810.45	9482.656	-5171.6519	1760422	496649.5	11369.64	49003.59	73420.72	4810.45	8784.915	9482.656	-5171.6519	1760422.066	496649.5		
-1.8458	10.7201	161.3027	87.2163	7.5097	143.3198	61278.4	65749.82	42890.72	8499.766	-4997.32	1697550	577048.7	11004.96	61278.4	65749.82	42890.72	5902.108	8499.766	-4997.3171	1697549.559	577048.7		
0.9396	10.3133	180.4966	87.4764	7.8567	149.2042	70183.49	62880.01	42170.07	877.088	-4804.55	1891790	630401.1	10598.82	70183.49	62880.01	42155.26	13445.55	877.088	-4804.5507	1891790.185	630401.1		
0.0559	11.7042	138.6724	86.2509	5.9796	155.283	59184.54	69709.94	43899.75	8411.986	-5461.94	1751764	509284.7	11988.05	59184.54	69709.94	43899.75	13124.79	8411.986	-5461.9429	1751763.925	509284.7		
-0.0763	11.3812	178.8065	86.8273	6.7836	158.9597	56369.28	70829.64	44169.08	13717.01	-5306.85	1667324	629000	11668.49	56369.28	70829.64	44169.08	13105.03	13717.01	-5306.8502	1667324.358	629000		
-0.5423	11.5704	119.2476	86.241	7.7065	150.3256	70434.32	60382	41506.64	363.424	-5561.73	1788312	459186.2	10068.94	70434.32	60382	41506.64	7640.582	363.424	-5561.5309	1788311.751	459186.2		
-1.3323	11.6218	129.7744	86.8718	9.923	141.9058	73484.42	58991.44	41141.99	822.3439	-5071.77	1679590	468686.7	11156.42	73484.42	58991.44	41141.99	5189.246	822.3439	-5071.7746	1679499.989	468686.7		
1.9283	11.5671	121.4004	86.8713	8.1153	144.4881	80531.98	56925.02	40595.1	275.7138	-4340.05	1781397	465690.2	9600.221	80531.98	56925.02	40595.1	4067.04	1910.719	-4238.2793	1779942.056	467401.8		
0.2748	10.3779	113.1595	88.3681	8.1709	140.112	76045.42	60917.94	41646.49	629.148	-4447.79	1803186	404230.9	9822.891	60917.94	61376.7	41765.9	10489.9	569.4905	-4403.7707	1802590.781	41150.0		
-0.9146	11.7952	136.6938	87.204	9.3888	155.4165	65301.54	65561.12	42842.66	5715.055	-5504.9	1756736	500320.5	12078.96	65301.54	65561.12	42842.66	8348.462	5715.055	-5504.9029	1756735.985	503200.5		
-0.5674	10.9072	141.1372	85.6069	8.9301	139.1345	77359.47	60629.96	40365.13	680.1524	-4619.01	1736391	523867.6	10196.28	77359.47	60629.96	40365.13	6147.819	680.1524	-4619.0054	1736390.936	523867.6		
0.4177	10.9833	129.4393	86.0144	8.8354	143.4097	71606.22	57927.43	40861.15	517.2745	-4808.86	1762813	490002.7	9952.739	71606.22	57927.43	40861.15	5804.717	40892.84	-4943.0853	1762628.602	490212.5		
0.4047	12.6117	125.6265	88.0536	7.807	151.4888	71762.58	60580.46	41558.47	1033.739	-5630.93	1739364	469675.4	12344.44	71762.58	60580.46	41558.47	10598.68	1033.739	-5630.9324	1739363.505	469675.4		
-0.2285	11.0577	142.6716	88.8789	6.7889	143.9089	69696.71	63245.41	42249.47	4988.061	-5157.63	1739260	523460	11341.81	69696.71	63245.41	42249.47	9596.928	4988.061	-5157.5989	1739260.179	523460		
0.1694	11.3814	129.1592	86.5085	9.8095	152.3783	76025.69	59802.04	41354.88	1209.434	-5225.71	1771113	483558.7	11483.61	76025.69	59802.04	41354.88	9537.704	1209.434	-5225.7127	1771112.76	483558.7		
0.4586	11.7229	86.6054	85.3236	6.9964	144.8778	61915.51	65493.74	42710.7	177.9496	-5420.77	1806238	290811.7	9221.63	61915.51	65493.74	42710.7	177.9496	177.9496	-5420.7709	1806238.15	290811.7		
-2.3567	10.8524	98.6333	86.945	6.2972	148.0494	50595.93	71901.16	44435.15	3757.2719	-5111.8	1848607	389094.6	11234.67	50595.93	71901.16	44435.15	6886.786	3757.2719	-5112.1809	1848606.683	389094.6		
-0.0861	10.8554	131.9535	86.9479	8.189	143.9452	75629.63	58959.22	41133.5	1156.118	-4971.95	1761681	493977.7	10944.65	75629.63	58959.22	41133.5	8447.645	1156.118	-4971.9463	1761680.592	493977.7		
-0.158	11.0025	134.9865	87.2928	7.2998	158.6886	52793.96	72360.93	41548.95	9064.655	-5127.28	1756407	501487.3	11286.27	52793.96	72360.93	41548.95	13437.301	9064.655	-5127.2817	1756406.549	501487.3		
-1.278	11.9602	124.1602	88.4164	9.8666	146.2129	71719.13	61491.2	41795.65	1524.946	-5544.97	1785465	467378.4	12161.41	71719.13	61491.2	41795.65	6052.427	1524.946	-5544.965	1785465.612	467378.4		
-0.7192	11.6351	108.1088	87.9066	9.2788	140.2044	67361.24	61827.06	41882.85	278.2349	-4460.38	1816486	424752.8	9842.02	67361.24	61827.06	41882.85	41992.44	7779.875	245.8716	-4419.3642	1815970.662	425380.3	
-0.5253	10.7566	174.9263	87.8211	8.6496	155.9351	54864.06	70753.41	44150.1	12706.72	-5013.41	1670394	615985.5	11041.89	54864.06	70753.41	44150.1	11482.07	12706.72	-5013.4145	1670763.955	615985.5		
-0.4627	12.0527	138.544	88.7571	7.8379	154.4668	63533.16	67259.91	43273.77	7060.766	-5625.8	1753942	507473.8	12336.44	63533.16	67259.91	43273.77	10356.52	7060.766	-5625.8019	1753942.133	507473.8		
0.2562	11.5036	151.698	87.0557	8.8348	158.6202	70096.34	63662.29	42356.74	6454.615	-5366.51	1722149	547043	11877.94	70096.34	63662.29	42356.74	11345.25	6454.615	-5366.5136	1722148.807	547043		
0.8817	11.5129	168.6742	87.9342	7.6403	148.3573	80961.65	58471.11	41004.85	5326.278	-5369.52	1687573	593414.6	11797.77	80961.65	58471.11	41004.85	11326.96	5326.278	-5369.5176	1687573.187	593414.6		
0.6659	10.6817	183.7020	86.7912	7.2524	154.9254	63553.23	64558.1	43172.1	11477.57	-5822.59	1653719	63077.2	10967.33	63553.23	64558.1	43172.1	14180.11	11477.57	-5822.5928	1653718.573	63077.2		
0.3269	11.0697	154.4575	87.7166	9.7981	155.8362	67782.7	66852.5	42855.27	7177.7872	-5162.27	1713811	556620.3	11354.26	67782.7	66852.5	42855.27	11954.52	7177.7872	-5162.2705	1713811.303	556620.3		
0.4149	11.7229	86.6054	85.3236	6.9964	144.8778	72349.29	62195.95	41978.25	9215.274	-5469.7	1663733	627988.1	9216.63	72349.29	62195.95	41978.25	11287.98	9215.274	-5469.6982	1663732.986	627988.1		
0.0877	11.552	115.9109	87.8204	7.8668	157.1896	70410.15	64388.82	42536.06	2010.779	-5377.74	1806238	290811.7	11802.92	70410.15	64388.82	42536.06	14718.58	2010.779	-5377.745	1806237.759	290811.7		
-0.3889	10.7942	176.9581	87.4277	8.3891	156.1221	62126.94	67560.32	43399.56	1124.95	-5030.94	1697115	61880.3	11079.54	62126.94	6756								

TABLE 5

10 BG Ethanol

S146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil prices draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	PS of Ethanol Producers	Government Revenue	CS of Fuel users	PS of gasoline producers	Total ethanol demand	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of Corn Importers	PS of Ethanol Producers	Government Revenue	CS of Fuel users	PS of gasoline producers		
						Mandate							Tax Credit										
0.842	12.1118	134.2693	85.5127	9.0081	148.5116	79601.21	57279.33	40689.31	417.3053	-4775.84	1754033	502483.6	10528.21	79601.21	57279.33	40689.31	10694.39	417.3053	-4775.8442	1754032.589	502483.6		
0.727	12.2365	205.3064	87.0655	9.9598	154.0348	75125.67	60719.74	41594.82	1116.46	-5736.32	1626647	683971.1	12584.28	75125.67	60719.74	41594.82	7244.397	1116.46	-5736.3171	1626646.849	683971.1		
-0.081	11.152	107.8575	86.6775	8.7724	142.5454	60927.26	60871.4	43472.75	3038.017	-5187.82	1418824.7	5187.82	60927.26	60871.4	43472.75	3038.017	7244.397	1116.46	-5187.8195	1418824.7	5187.82		
-2.043	10.2133	189.9485	87.391	7.5622	146.2502	51809.31	70788.72	44158.89	13729.27	-4756.84	1639299	654851.8	10498.26	51809.31	70788.72	44158.89	6854.805	13729.27	-4756.838	1639299.424	654851.8		
-0.148	11.7938	147.7062	88.1838	9.2548	142.3248	82343.4	55675	40261.26	1034.719	-5229.41	1736299	537107.6	11495.58	82343.4	55675	40261.26	7109.432	1034.719	-5229.4066	1736299.789	537107.6		
-1.7734	11.594	148.3525	87.7216	9.579	149.0466	65067.5	64567.76	42589	6599.77	-5409.27	1729817	532884.6	11878.14	65067.5	64567.76	42589	5739.307	6599.77	-5409.2676	1729817.474	532884.6		
0.8987	12.683	137.1529	87.8701	6.6593	153.3879	81072.88	59784.57	41350.3	2095.523	-5922.17	1760469	500880.3	12966.3	81072.88	59784.57	41350.3	11945.62	2095.523	-5922.1682	1760469.195	500880.3		
0.0113	10.3549	126.6272	87.8723	7.0347	136.6369	73268.67	59148.73	4183.63	741.9315	-4524.58	1769544	481841.3	9992.49	73268.67	59148.73	4183.63	8814.21	738.8793	-4522.7699	1769515.845	481841.3		
0.2834	12.4331	100.3723	86.573	8.5571	144.8446	68933.64	61879.93	41896.56	83.3004	-4554.56	1837263	399470.5	9571.913	68933.64	61879.93	41896.56	42176.82	11154.81	18.9782	-4235.9255	1835952.841	401084.7	
-0.1683	11.8466	192.2388	88.1004	7.9602	154.9981	65418.66	66272.28	43023.55	12913.2	-5524.72	1649296	565382.7	12132.15	65418.66	66272.28	43023.55	10949.84	12913.2	-5524.7176	1649296.426	565382.7		
0.2499	10.7319	164.4156	87.6012	9.5428	156.7186	62501.46	67118.34	43237.97	9591.401	-5002.61	1691298	585486.3	11016.63	62501.46	67118.34	43237.97	12747.93	9591.401	-5002.6066	1691298.001	585486.3		
0.4946	10.773	136.6788	86.997	9.0809	150.248	74221.27	60644.3	41575.14	2719.643	-5024.25	1751272	507359.7	11056.95	74221.27	60644.3	41575.14	10923.12	2719.643	-5024.2529	1751271.82	507359.7		
-1.4997	10.9578	144.719	87.0503	8.2718	135.0899	76790.78	56238.44	40412.03	1133.909	-4964.005	1732427	531047.2	10930.63	76790.78	56238.44	40412.03	4076.524	1133.909	-4964.005	1732426.688	531047.2		
1.5994	10.2228	212.512	86.9398	8.5953	145.5801	84148.52	55440.33	40198.33	7613.679	-4759.74	1600516	713221.3	10509.43	84148.52	55440.33	40198.33	12501.63	7613.679	-4759.7376	1600515.962	713221.3		
-1.5419	12.2374	133.6827	85.7219	7.8548	153.2973	72098.89	58259.16	41020.17	938.3869	-5390.82	1762347	495443.7	11835.71	72098.89	58259.16	41020.17	13714.25	938.3869	-5390.8176	1762347.401	495443.7		
0.1445	12.1464	148.6225	86.7813	9.9007	150.1092	84087.54	55909.48	40318.98	1222.853	-5483.59	1727073	537922.7	12036.25	84087.54	55909.48	40318.98	8001.126	1222.853	-5483.581	1727072.878	537922.7		
-0.7061	10.3663	151.9054	87.5275	8.2204	158.8211	45253.46	75545.26	45331.3	12279.36	-4831.7	1751568	552971.2	10650.88	45253.46	75545.26	45331.3	12718.11	12279.36	-4831.895	1751568.334	552971.2		
0.1608	11.9717	162.8424	87.2365	7.954	139.7174	87756.26	52804.44	39485.54	1016.756	-5229.87	1693737	579021.5	11499.71	87756.26	52804.44	39485.54	6947.318	1016.756	-5229.8725	1693737.262	579021.5		
0.1699	11.7827	132.8036	87.7647	7.9513	144.0339	74785.43	57784.35	40823.27	543.4655	-4825.09	1758030	497746.4	10632.59	74785.43	57784.35	40823.27	8774.524	543.4655	-4825.0945	1758029.971	497746.4		
-1.7601	12.4442	183.0052	87.1716	8.4919	147.8985	69736.5	62437.17	42400.86	9673.309	-5665.33	1664406	628225.3	12429.41	69736.5	62437.17	42400.86	5170.995	9673.309	-5665.3258	1664405.609	628225.3		
0.454	11.8312	155.0495	87.0777	9.6324	147.9729	86136.39	54763.89	40016.45	1321.804	-5382.8	1751297	556198.7	11823.27	86136.39	54763.89	40016.45	8482.316	1321.804	-5382.8013	1751296.854	556198.7		
-0.4064	12.7062	89.1607	87.5945	8.9922	151.52	58988.92	67963.35	43451.31	157.6002	-4703.5753	1872304	361431.2	10363.15	58988.92	67963.35	43451.31	18099.38	157.6002	-4703.5753	1872304.49	361431.2		
-1.8147	11.7723	134.3259	86.9021	6.8874	154.8203	53046.7	71652.58	44373.53	10318.77	-5493.46	1739569	525154.7	12056.3	53046.7	71652.58	44373.53	7769.31	10318.77	-5493.4617	1739568.606	525154.7		
-0.2593	11.428	172.0323	87.102	7.175	151.5753	66675.81	65008.01	42701.57	9645.494	-5329.33	1680514	602777.8	11712.99	66675.81	65008.01	42701.57	10163.75	9645.494	-5329.3295	1680513.823	602777.8		
-0.3788	11.7217	188.7393	87.9017	7.7901	135.3551	68217.84	60895.34	41640.06	106.7668	-4093.34	1869244	390499.6	8894.006	68217.84	60895.34	41640.06	63723.61	42372.5	9306.818	-52.1967	-3790.7256	1866418.867	364365.9
0.4537	11.3538	113.8703	87.1564	8.5749	138.4577	76263.33	57261.68	40684.62	274.2343	-4246.95	1800267	442089.5	9384.5	76263.33	57261.68	40684.62	41105.31	10067.3	147.8529	-4089.7356	1798188.658	444627.5	
-1.1963	11.5127	100.0516	86.073	7.5088	145.3804	62378.17	65955.1	42942.94	694.3125	-5070.82	1844279	394797.9	11147.07	62378.17	65955.1	42942.94	7073.889	694.3125	-5070.8167	1844278.887	394797.9		
0.1853	11.8922	136.0415	87.7683	8.7345	147.2614	77445.17	57422.26	40812.17	882.3869	-4909.12	1762347	495443.7	11835.71	77445.17	57422.26	40812.17	13714.25	882.3869	-4909.12	1762347.401	495443.7		
0.7928	10.8369	123.2055	86.4872	9.0135	155.475	70656.62	63099.23	42211.8	2379.493	-5055.51	1730071	467190.1	11120.3	70656.62	63099.23	42211.8	13009.71	2379.493	-5055.5114	1730070.244	467190.1		
-0.7497	10.9653	140.4147	87.1747	7.5313	154.3427	55960.93	70154.04	40007.8	8540.78	-5114.33	1743808	510772.9	11249.31	55960.93	70154.04	40007.8	10502.14	8540.78	-5114.33	1743808.276	510772.9		
-0.7451	11.794	135.3997	86.9123	8.2802	141.8435	76901.39	57833.5	40836.29	833.6976	-5122.33	1755330	502779.1	11265.21	76901.39	57833.5	40836.29	6261.634	833.6976	-5122.3312	1755338.452	502779.1		
0.1928	11.3703	178.1949	87.5544	8.0184	152.7516	68920.07	64113.14	42472.51	9860.824	-5301.69	1667052	612346.2	11655.54	68920.07	64113.14	42472.51	11131.87	9860.824	-5301.6869	1667051.79	612346.2		
0.9325	12.1411	184.9399	87.0887	8.3921	154.4328	82350.71	58430.16	40994.04	7235.49	-5663.78	1681847	626196.1	12426.38	82350.71	58430.16	40994.04	11483.36	7235.49	-5663.7825	1681846.875	626196.1		
0.6184	11.5412	122.8738	86.683	8.3961	152.7585	74921.68	61030.21	41675.74	1077.619	-5254.06	1785857	464554.7	11542.41	74921.68	61030.21	41675.74	11501.55	1077.619	-5254.0577	1785857.348	464554.7		
0.1836	11.7453	224.6778	86.5017	9.4939	152.244	80665.8	57905.84	40855.44	10965.33	-5474.914	1591895	734046.8	12031.77	80665.8	57905.84	40855.44	8861.219	10965.33	-5474.9141	1591898.953	734046.8		
0.3478	11.2628	154.4575	86.6977	7.5113	141.2803	84604.84	54539.67	39956.01	1216.255	-5100.12	1713044	557201.2	11222.12	84604.84	54539.67	39956.01	8089.128	1216.255	-5100.1222	1713043.638	557201.2		
-1.2507	11.6109	121.4289	86.6403	8.237	154.5918	60828.93	67607.17	43361.48	4779.287	-5419.66	11894.08	458842.5	11894.08	60828.93	67607.17	43361.48	8064.471	4779.287	-5419.6607	11894.08	458842.5		
-0.1357	11.6518	127.2927	87.0509	5.1789	152.879	62239.61	67856.83	43424.46	5760.267	-5438.31	1777889	462384.1	11935.23	62239.61	67856.83	43424.46	11686.17	5760.267	-5438.3079	1777888.734	462384.1		
-0.1352	11.0076	156.1789	86.604	9.4002	136.5394	81203.76	53856.94	39771.47	106.11	-4905.37	1707709	56396.1	10808.41	81203.76	53856.94	39771.47	4452.02	106.11	-4905.3707	1707099.135	56396.1		
1.1638	11.8019	147.2235	87.2952	6.3185	145.0461	85418.47	55691.29	40265.63	977.0322	-5231.68	1730101	535757.1	11500.31	85418.47	55691.29	40265.63	11099.15	977.0322	-5231.6767	1730101.176	535757.1		
0.1656	10.5924	173.3785	87.2698	8.2017	152.4991	63710.48	65742.26	43009.85	10671.44	-4935.85	1651255	626136.5	11877.65	63710.48	65742.26	43009.85	12142.57	10671.44	-4935.8511	1651255.075	626136.5		
0.165	12.2479	225.1167	87.0427	8.6481	144.8351	91881.32	51994.73	39264.33	7221.301	-5711.28	1594806	732470.7	12534.3	91881									

TABLE 5

10 BG Ethanol

S146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil prices draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Mandate	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	PS of Ethanol Producers	Government Revenue	CS of Fuel users	PS of gasoline producers	Tax Credit	Total ethanol demand	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	PS of Ethanol Producers	Government Revenue	CS of Fuel users	PS of gasoline producers
-1.0066	11.9319	193.0981	87.1937	7.9205	141.8404		81645.22	56014.37	40352.13	6569.398	-5864.76	1644979	655151.9	12217.43	81645.22	56014.37	40352.13	5081.259	6569.398	-5864.7581	1644979.42	655151.9	
-1.9077	11.8423	113.1089	86.7465	8.7428	145.0978		66533.95	63885.3	42414.04	1333.172	-5906.11	1813666	432759.3	12076.05	66533.95	63885.3	42414.04	5229.614	1333.172	-5906.1126	1813666.499	432759.3	
-0.4394	12.0745	73.8567	89.3607	8.9949	148.4891		50940.96	73092.58	44729.59	16336.58	-5135.328	19570.58	519.3528	11264.63	50940.96	73092.58	44729.59	12490.37	16336.58	-5135.328	19570.58	519.3528	
0.0756	12.0667	123.2421	86.8025	7.0365	151.7785		74399.23	61646.92	41836.1	1430.67	-5605.15	178893	463317.6	12289.1	74399.23	61646.92	41836.1	9951.425	1430.67	-5605.1476	178892.804	463317.6	
-1.2235	12.1635	140.7621	86.1963	9.4202	138.2844		77125.42	55998.41	40347.86	448.4355	-4813.48	175049.9	51049.9	10609.7	77125.42	55998.41	40347.86	4594.153	448.4355	-4813.4789	173951.373	51049.9	
-0.5993	12.3998	232.9371	87.5333	8.3658	151.9886		73976.28	61632.18	41832.27	14607.7	-5782.24	1584157	570260.7	12686.38	73976.28	61632.18	41832.27	7908.551	14607.7	-5782.2413	1584157.436	570260.7	
-0.8759	11.4285	126.7964	86.677	7.1292	143.5766		73072.77	60347.6	41617.65	1211.073	-5253.8256	177066	476305.3	11544.82	73072.77	60347.6	41617.65	6724.901	1211.073	-5253.8256	177065.988	476305.3	
-1.3219	11.0352	137.3844	87.3811	7.8704	140.1591		72603.19	59751.16	41341.54	2278.174	-5147.46	1751067	504328.7	11319.09	72603.19	59751.16	41341.54	5431.667	2278.174	-5147.4649	1751067.174	504328.7	
0.5233	11.3962	101.7917	87.2647	10.4182	151.2799		66528.44	63850.22	42405.03	320.454	-4483.48	183122	408295.1	9883.489	66528.44	63850.22	42405.03	12470.41	294.8251	-4450.6418	1833750.031	407435.9	
-0.2437	10.2104	160.3284	85.7832	7.5203	146.7056		67440.52	63058.01	42201.17	6701.24	-4757.73	1696518	576664.7	10495.36	67440.52	63058.01	42201.17	9479.620	6701.24	-4757.73	1696517.583	576664.7	
-0.4673	11.1827	172.9392	87.7122	8.1004	152.3767		62280.66	66744.76	41343.39	10538.03	-5213.99	1678492	604610.5	11467.83	62280.66	66744.76	41343.39	10148.04	10538.03	-5213.9936	1678491.767	604610.5	
-1.231	10.6415	153.693	86.4165	7.6127	145.3353		64442.38	64356.29	42534.85	6824.258	-4960.96	1712943	556373.1	10926.09	64442.38	64356.29	42534.85	7062.18	6824.258	-4960.9643	1712942.654	556373.1	
-0.6208	12.6843	152.4979	87.1999	10.137	140.7215		8131.06	54038.45	39820.61	549.7977	-5008.23	1717021	551872.6	11192.17	8131.06	54038.45	39820.61	5388.837	549.7977	-5008.2285	1717020.727	551872.6	
-1.0209	11.3645	135.7419	87.3919	7.766	144.189		81921.2	56366.27	40518.19	430.643	-4516.93	1477763	508871.3	9979.211	81921.2	56366.27	40518.19	14662.01	425.0601	-4511.7228	1477678.282	508866.1	
-1.3204	12.0215	73.8567	86.0972	7.6364	148.6476		52325.85	72149.49	44091.9	134.4693	-4425.83	1917827	309322.5	9685.208	52325.85	72149.49	44091.9	9112.946	91.121	-4333.6378	1917146.528	301276.3	
0.1654	12.0647	166.5625	86.0478	10.0478	140.3644		91689.35	51225.69	39053.21	537.3615	-4813.98	1684555	593138.9	10616.24	91689.35	51225.69	39053.21	10829.67	537.3615	-4813.9829	1684554.832	593138.9	
-1.0087	11.2404	117.1987	87.1945	8.3003	139.8934		68767.96	61205.62	41721.54	545.1827	-4698.39	1794957	451776.6	10359.46	68767.96	61205.62	41721.54	6650.827	545.1827	-4698.3919	1794957.079	451776.6	
0.7655	10.7914	149.3985	88.7493	8.9029	146.2743		79862.11	57728.87	40087.57	2573.189	-5031.82	1723003	543685.7	11075.84	79862.11	57728.87	40087.57	10627.52	2573.189	-5031.8241	1723003.255	543685.7	
1.3192	11.5228	136.3361	86.6854	4.6523	150.548		75293.36	61898.34	41901.33	3418.513	-5376.85	1756089	503286.2	11806.6	75293.36	61898.34	41901.33	14433.88	3418.513	-5376.8475	1756088.603	503286.2	
-0.408	11.2113	139.8418	87.002	9.003	155.7884		63133.27	66653.09	43120.16	6621.622	-5230.0398	1746445	514698.1	11495.22	63133.27	66653.09	43120.16	10305.58	6621.622	-5230.0398	1746444.512	514698.1	
-1.7652	10.6345	126.7866	87.9825	8.3514	149.8985		52320.56	71090.5	44233.96	7155.665	-4959.99	1773888	487480.2	10918.04	52320.56	71090.5	44233.96	7730.878	7155.665	-4959.992	1773887.675	487480.2	
-0.7428	11.1489	203.6363	87.7875	8.1248	147.0143		73180.3	61114.21	41697.61	10548.97	-5195.84	1621633	685588.2	11435	73180.3	61114.21	41697.61	9376.137	10548.97	-5195.842	1621633.244	685588.2	
0.2606	10.5173	113.2877	85.6571	7.9445	150.3883		70218.58	62357.18	42020.17	602.9557	-4891.19	1807008	438131.1	10768.47	70218.58	62357.18	42020.17	10834.32	602.9557	-4891.1899	1807008.057	438131.1	
2.3004	11.3378	131.2462	86.6219	9.1863	148.5103		82703.22	56357.53	40443.83	393.0386	-4446.31	1757858	495518.1	9814.903	82703.22	56357.53	40443.83	10582.9	346.2643	-4390.4107	1757128.302	496347	
-0.0033	11.3445	122.7815	86.6544	8.7119	146.2527		73225.38	60216.35	41663.34	682.7183	-4865.31	1782667	467476.9	10715.75	73225.38	60216.35	41663.34	9160.439	682.7183	-4865.3098	1782667.258	467476.9	
-0.3518	10.8426	158.1171	85.8006	9.5127	146.2601		68725.05	61574.23	41817.22	531.0924	-4544.266	1798733	446562.2	10031.17	68725.05	61574.23	41817.22	8607.749	531.0924	-4544.2666	1798732.871	446562.2	
0.7444	11.1052	161.7683	87.5407	9.0216	139.9901		87109.33	52519.73	3947.808	896.8796	-4809.75	1694174	580174.3	10686.26	87109.33	52519.73	3947.808	8480.727	896.8796	-4809.7461	1694173.995	580174.3	
-0.8997	9.7442	139.3764	87.9389	7.8734	152.8542		49783.93	72442.26	44500.66	6239.672	-5546.89	1791253	454481.7	10071.81	49783.93	72442.26	44500.66	10662.9	6239.672	-5546.8947	1791253.181	454481.7	
-1.1366	11.046	166.0168	87.0955	9.0572	141.9151		76040.33	57977.76	40874.47	4665.237	-5177.73	1690341	588130	11389.5	76040.33	57977.76	40874.47	5351.446	4665.237	-5177.7328	1690341.296	588130	
-0.5313	11.1833	118.5057	86.4857	7.3008	156.8762		57006.1	69952.63	43950.4	5617.334	-5218.81	1797047	451601.5	11466.42	57006.1	69952.63	43950.4	11153.04	5617.334	-5218.8126	1797046.785	451601.5	
-1.4436	11.1498	101.9607	88.2709	10.1505	148.1722		62294.38	65566.67	42867	6003.991	-5039.3135	1838714	441182.8	11080.58	62294.38	65566.67	42867	6903.991	6003.991	-5039.3135	1838714.441	441182.8	
-0.3042	10.5241	134.1387	86.6475	8.7243	135.766		75291.22	57614.04	40778.13	759.5805	-4575.53	1752069	503838.6	10102.26	75291.22	57614.04	40778.13	7352.185	759.5805	-4575.5334	1752069.226	503838.6	
0.1784	12.9431	116.975	87.5359	7.1686	151.2034		73590.08	62109.71	41956.11	3302.216	-5552.85	1804343	444254.6	12176.36	73590.08	62109.71	41956.11	10464.26	730.3632	-5552.84276	1804343.349	444254.6	
1.2607	9.9653	149.4604	87.6884	8.0057	155.1057		61243.24	67950.88	43448.17	7931.639	-4643.36	1718161	547433.5	10249.9	61243.24	67950.88	43448.17	17061.13	7931.639	-4643.3616	1718161.378	547433.5	
0.1998	12.3988	111.4538	88.4855	7.9486	146.6071		71209.3	62239.08	41989.61	261.2187	-4718.78	1810073	433750.5	10401.39	71209.3	62239.08	41989.61	13457.63	261.2187	-4718.7834	1810073.035	433750.5	
0.276	10.2586	134.2564	87.1381	10.281	144.251		76849.19	57649.45	40787.52	850.8107	-4527.41	1750764	505300.6	10811.55	76257.24	57916.63	40858.29	9145.847	951.5431	-4612.8106	1752215.05	503661.4	
-2.5701	10.5459	155.4312	87.1284	8.2075	148.8084		49314.95	72115.89	44488.32	11099.18	-4915.88	1708712	561632	10830.6	49314.95	72115.89	44488.32	5911.745	11099.18	-4915.8848	1708711.778	561632	
-0.429	11.7296	189.5319	88.017	8.2976	133.7113		95259.61	49239.43	38053.19	16269.99	-5371.51	1648588	648053.6	11805.94	92529.61	49239.43	38053.19	4399.725	16269.99	-5371.5055	1648588.156	648053.6	
-0.5795	10.1535	124.6425	87.8774	5.621	157.1018		37259.29	79536.25	46298.10	10780.09	-4734.03	1776667	474188.8	10437.05	37259.29	79536.25	46298.10	14807.46	10780.09	-4734.0309	1776666.937	474188.8	
2.8411	12.7792	123.1491	88.3728	8.9528	156.424		80315.47	60095.75	41408.24	446.3147	-5098.96	1784253	666664.2	12121.04	80315.47	60095.75	41408.24	10835.91	446.314	-5098.9597	1784253.021	666664.2	
0.1661	12.6142	139.3764	87.9389	6.4796	158.1816		59843.36	69648.81	43874.46	8985.715	-5889.69	1754325	509567.5	10071.81	59843.36	69648.81	43874.46	10744.86	8985.715	-5889.6911	1754325.181	509567.5	
-1.3464	11.6453	198.7919	87.2366	6.8883	139.0567		77513.41	57619.78	40779.64	514.584	-5429.61	1633											

TABLE 5

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil prices draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Mandate	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	PS of Ethanol Producers	Government Revenue	CS of Fuel users	PS of gasoline producers	Total ethanol demand	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of Corn Importers	PS of Ethanol Producers	Government Revenue	CS of Fuel users	PS of gasoline producers	
-0.9562	11.7659	135.8041	87.5375	7.3275	146.1952		71059.05	62089.46	41950.87	3467.334	-5491.18	1758607	500744.5	12049.58	71059.05	62089.46	41950.87	7073.246	3467.334	-5491.1785	1758606.947	500744.5	
-1.1439	10.2765	163.3383	87.9017	8.5488	151.1089		52863.32	70940.34	44196.62	11159.01	-4788.55	1690739	584616.7	10651.51	52863.32	70940.34	44196.62	9524.891	11159.01	-4788.5516	1690738.848	584616.7	
-0.5747	12.0669	145.1508	86.0778	9.2437	146.1509		75179.11	59538.31	41295.73	865.0371	-5246.32	18655.69	866.61	11651.67	75179.11	59538.31	41295.73	8655.69	866.61	-5246.3246	18655.69	866.61	
-2.4004	10.8236	151.7711	85.7783	8.1857	144.2075		60566.84	65627.4	42859.55	7371.585	-5046.77	1718087	550207.1	11108.12	60566.84	65627.4	42859.55	4393.396	7371.585	-5046.7706	1718086.913	550207.1	
-1.2799	11.8125	128.8183	87.1243	7.8303	149.209		67282.96	64038.11	44259.52	3705.89	-5513.69	1775091	480115.5	12095.87	67282.96	64038.11	44259.52	6831.642	3705.89	-5513.6884	1775091.288	480115.5	
-0.4241	10.6075	138.4578	87.1677	7.3697	147.302		62398.46	66399.45	43055.83	6117.931	-4946.28	1746298	512089.8	10891.55	62398.46	66399.45	43055.83	10158	6117.931	-4946.2787	1746298.386	512089.8	
0.334	11.142	142.9928	86.6915	7.9874	139.1423		80320.43	55653.61	40255.53	636.7687	-4655.206	1732623	52889.8	10273.65	80320.43	55653.61	40255.53	8463.821	636.7687	-4655.2066	1732623.058	52889.8	
-1.4209	10.4381	155.9889	87.478	8.7602	157.0576		45115.38	75223.07	42562.6	12645.98	-4865.12	1706908	563657.5	10722.79	45115.38	75223.07	42562.6	10155.38	12645.98	-4865.1229	1706907.639	563657.5	
-0.2603	12.2759	107.1176	86.9606	6.8325	154.4219		67915.88	64988.02	42696.46	10479.01	-5615.51	1830315	413270.2	12307.19	67915.88	64988.02	42696.46	10149.65	10479.01	-5615.5061	1830314.761	413270.2	
-0.0636	11.0013	166.6527	87.7782	6.3924	156.8841		52249.39	72715.31	44636.52	13059.67	-5129.13	1688448	590319.1	11286.29	52249.39	72715.31	44636.52	13938.26	13059.67	-5129.1313	1688448.184	590319.1	
-0.314	12.1571	171.0914	88.1432	7.7747	152.4545		72605.52	62397.88	42030.7	8246.978	-5672.28	1668229	596900.1	12441.95	72605.52	62397.88	42030.7	9019.531	8246.978	-5672.2833	1668229.172	596900.1	
-0.3135	10.1474	129.03	88.4879	7.9423	142.9256		65970.89	63808.71	42934.37	3484.246	-4730.79	1765961	48717.8	10431.19	65970.89	63808.71	42934.37	9541.114	3484.246	-4730.7897	1765960.559	48717.8	
1.3616	11.9182	251.9786	86.5037	8.7156	148.0566		96241.48	50748.1	38281.67	8785.57	-5534.6203	1554567	797179.6	12205.38	96241.48	50748.1	38281.67	9647.411	8785.57	-5534.6203	1554566.629	797179.6	
-0.4308	12.5865	143.5789	87.6776	7.4606	154.071		70878.72	63785.98	42388.53	5674.862	-5876.36	1745721	519601.8	12870.28	70878.72	63785.98	42388.53	9169.696	5674.862	-5876.3581	1745720.823	519601.8	
0.7704	10.4317	136.6259	87.9023	7.9404	149.011		73528.03	60921.66	41647.46	2867.855	-4863.17	1749556	508611.3	10715.11	73528.03	60921.66	41647.46	12010.89	2867.855	-4863.1751	1749555.714	508611.3	
0.6163	12.0702	147.2719	88.1535	8.4075	143.963		84352.73	55589.72	40238.4	902.4113	-5298.77	1730082	535814.9	11511.13	84352.73	55589.72	40238.4	9290.325	902.4113	-5298.7657	1730082.026	535814.9	
-2.642	10.3282	171.9614	87.5391	10.359	137.9269		64925.26	81866.75	41893.14	7340.613	-4812.18	1673846	607693.7	10613.47	64925.26	81866.75	41893.14	3214.856	7340.613	-4812.1752	1673846.009	607693.7	
0.2784	12.6113	113.6975	87.3053	7.7279	154.1913		72131.89	63032.59	42194.62	839.7341	-5517.8	1812676	434175	12184.61	72131.89	63032.59	42194.62	11165.65	839.7342	-5517.8	1812675.924	434175	
-0.6173	13.0189	97.7383	86.5148	6.7839	150.1095		63412.89	66101.77	42980.23	324.3282	-5113.76	1851127	386984.2	11237.78	63412.89	66101.77	42980.23	9435.362	324.3282	-5113.7563	1851126.784	386984.2	
0.5884	11.8566	90.2968	86.9807	7.9392	139.5766		73983.25	58173.91	40926.31	31.2091	-3944.8	1863669	365526.4	8580.526	73983.25	58173.91	40926.31	11928.73	-148.035	-3574.2931	1860120.207	370587.2	
0.2491	9.953	87.2686	87.1717	8.272	138.1539		70011.49	60220.34	41464.39	459.3351	-3991.79	1872995	355370.9	8659.986	70011.49	60220.34	41464.39	4236.92	11305.84	-153.076	-3636.5774	1869751.947	360027.3
1.8691	12.424	116.8298	87.2166	7.2312	146.0631		76088.23	61904.59	41902.95	681.9326	-5303.23	1802138	45802.3	11645.54	76088.23	61904.59	41902.95	19628.49	681.9326	-5303.233	1802138.345	45802.3	
-0.2717	12.8673	176.8807	86.4736	9.2339	147.9008		93235.5	52043.93	39277.8	1900.479	-5958.17	1679644	609335	13050.86	93235.5	52043.93	39277.8	5600.298	1900.479	-5958.169	1679643.664	609335	
-0.079	12.3582	112.4118	87.6381	7.6086	153.8157		70536.82	63811.16	42395	1121.687	-5663.6146	1742118	48717.8	12410.8	70536.82	63811.16	42395	10288.92	1121.687	-5663.6146	1742118.033	48717.8	
-0.5175	11.0314	85.096	88.2509	7.4998	146.1845		56334.37	68947.59	43698.79	350.4624	-4513.31	1883121	348587.4	9946.48	56334.37	68947.59	43698.79	43732.04	10866	338.5671	-4498.0239	1882982.084	348766.7
1.2864	11.1499	147.4095	88.6506	9.1193	143.6267		84406.54	55384.79	40183.42	943.9446	-5754.62	1725897	539155.4	10823.05	84406.54	55384.79	40183.42	11382.57	943.9446	-5754.62	1725897.157	539155.4	
-0.8778	11.9486	155.1143	86.7681	8.3251	142.6663		77058.08	57614.29	40778.2	3176.671	-5152.28	1712308	585356	11333.17	77058.08	57614.29	40778.2	5863.55	3176.671	-5152.2843	1712308.141	585356	
-0.5785	10.3457	139.4811	87.2074	8.5394	146.3612		59165.61	72072.71	44477.63	8959.592	-4851.78	1749498	42838.2	10621.66	59165.61	72072.71	44477.63	14077.58	8959.592	-4851.7878	1749498.048	42838.2	
-0.8775	12.1678	121.5894	87.8087	7.1734	155.7112		62589.76	61790.05	43407.62	4991.825	-5681.42	1794266	457189.9	12450.88	62589.76	61790.05	43407.62	10178.86	4991.825	-5681.419	1794265.991	457189.9	
0.4273	12.1685	118.2522	87.3428	8.5271	157.8674		72775.98	63398.05	42288.77	1754.65	-5681.76	1802487	447109.6	12450.79	72775.98	63398.05	42288.77	11826.25	1754.65	-5681.7584	1802487.436	447109.6	
-1.3547	10.9972	117.66	88.2243	8.1337	141.6819		67737.53	62559.06	42027.37	1310.209	-5112.63	1798073	449870	11240.44	67737.53	62559.06	42027.37	6182.877	1310.209	-5112.6346	1798073.283	449870	
0.7981	11.7163	92.1992	87.5007	9.9378	154.8822		62350.67	66681.91	43127.46	239.8859	-4507.41	1861698	372758	9935.416	62350.67	66681.91	43127.46	14680.17	227.7523	-4488.9087	1861512.321	372986.5	
1.4607	11.5813	169.3891	86.5997	8.4169	144.5681		91921.5	51304.8	39074.98	904.3819	-4971.85	1669088	599224	10952.44	91921.5	51304.8	39074.98	10199.02	904.3819	-4971.8515	1669088.224	599224	
0.0574	12.1416	144.7975	87.2974	8.5106	155.3085		72890.46	62624.19	42089.21	5038.564	-5667.08	1740594	524962.6	12425.55	72890.46	62624.19	42089.21	10271.6	5038.564	-5667.0771	1740594.235	524962.6	
0.6881	11.4296	152.4657	88.1212	6.6782	139.9478		85150.37	54986.21	40076.3	1225.798	-5177.4	1718232	505916.9	11390.41	85150.37	54986.21	40076.3	9274.121	1225.798	-5179.4704	1718232.074	505916.9	
0.1987	11.907	136.1039	87.5035	7.4021	145.3542		79558.65	58142.91	40918.16	1057.582	-5336.68	1756161	502959.8	11721.13	79558.65	58142.91	40918.16	8996.273	1057.582	-5336.6756	1756161.005	502959.8	
-0.5676	11.6841	170.0157	87.6381	7.7869	137.3164		87374.09	51781.3	39025.84	1208.329	-5168.28	1682980	598484.8	11477.13	87374.09	51781.3	39025.84	4836.782	1208.329	-5168.2778	1682980.385	598484.8	
0.4072	10.2506	144.6913	86.8869	9.339	141.5664		79851.31	59592.82	40335.66	1072.815	-4642.6295	1726670	538774.2	10247.3	79851.31	59592.82	40335.66	8794.344	1072.815	-4642.6295	1726669.534	538774.2	
0.4575	10.6572	164.9507	88.0611	8.9973	142.9475		80702.53	56809.96	40511.18	3692.803	-4967.46	1689769	587279.3	10942.21	80702.53	56809.96	40511.18	9199.541	3692.803	-4967.4562	1689769.292	587279.3	
-0.1481	11.4028	144.142	87.3651	8.5384	155.0606		63384.07	65295.49	42910.98	6754.64	-5319.72	1737917	526136.2	11686.94	63384.07	65295.49	42910.98	10844.57	6754.64	-5319.719	1737917.037	526136.2	
0.2312	10.1614	120.1247	86.2074	9.3944	146.3252		72094.49	60924.31	41475.88	485.3747	-4525.73	1785728	462135	9993.016	72094.49	60924.31	41475.88	10096.38	485.3747	-4525.9684	1785702.694	462135.6	
0.3838	11.0316	150.4289	87.7684	8.5518	155.188		56932.64	69721.11	43892.54	9025.653	-4721.37	171700											

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil prices draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Mandate	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	PS of Ethanol Producers	Government Revenue	CS of Fuel users	PS of gasoline producers	Total ethanol demand	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of Corn Importers	PS of Ethanol Producers	Government Revenue	CS of Fuel users	PS of gasoline producers
1.0254	12.1497	169.5075	87.169	9.9895	137.5336		89902.2	50219.12	38775.35	304.0603	-4548.88	1675290	603693.1	10053.2	89902.2	50219.12	38775.35	8410.85	304.0603	-4548.88	1675229.694	603693.1
-0.4394	10.8814	231.2384	88.4451	10.3393	149.6564		88088.6	63313.35	42266.96	14186.89	-5068.24	1575714	374277.2	11168.31	88088.6	63313.35	42266.96	8974.748	14186.89	-5068.235	1575713.805	754277
-0.7195	12.8642	182.6783	87.1806	12.3663	130.0119		93663.11	70339.01	44046.85	114.6721	-4571.11	1452111	327642.9	11668.31	93663.11	70339.01	44046.85	114.6721	1452111	-4571.11	1452111	327642.9
-0.3165	11.4402	188.0963	88.0629	11.357	145.3886		84363.49	54528.48	39952.99	5053.276	-5333.86	1649563	646294.8	11725.75	84363.49	54528.48	39952.99	6278.989	5053.276	-5333.854	1649563.129	646294.8
-0.7166	10.0633	158.0081	87.5965	8.7683	157.0276		49058.81	74424.59	45057.11	11799.98	-4688.96	1706791	562584.6	10348.05	49058.81	74424.59	45057.11	12241.21	11799.98	-4688.9648	1706791.291	562584.6
1.9764	11.3749	198.7485	89.1902	7.7851	149.0592		84286.24	57576.82	40768.26	8018.679	-5302.45	1631478	672196.2	11660.78	84286.24	57576.82	40768.26	14932.32	8018.679	-5302.4463	1631478.417	672196.2
-0.5281	11.6934	95.1055	88.4013	8.7683	154.5091		61435.47	67747.18	43396.81	892.5241	-5340.37	1860579	376788.1	11719	61435.47	67747.18	43396.81	10327.2	892.5241	-5340.3694	1860579.484	376788.1
0.4187	12.1222	118.3943	87.2098	7.9923	152.6551		73651.49	61930.58	41909.69	920.096	-5406.78	1799281	449748.6	10466.34	73651.49	61930.58	41909.69	11192.64	920.096	-5406.8941	1799280.909	449748.6
2.5403	11.3605	164.9758	86.4938	7.7682	144.2764		92740.76	51649.48	39169.68	713.1093	-4736.74	1686753	585850.5	11855.17	92740.76	51649.48	39169.68	14159.64	713.1093	-4736.7441	1686752.654	585850.5
0.2571	11.5843	112.9267	87.1777	8.336	149.9441		70293.3	62680.83	42103.84	703.8298	-5030.26	1809348	435917.5	11064.12	70293.3	62680.83	42103.84	10952.25	703.8298	-5030.2639	1809347.533	435917.5
0.4509	11.4315	146.5229	87.5736	7.6588	144.4675		82475.6	56594.02	40506.93	1474.84	-5286.86	1732312	533243	11617.49	82475.6	56594.02	40506.93	9173.008	1474.84	-5286.8616	1732311.653	533243
0.2148	11.9366	159.227	87.9079	8.1618	150.5038		77131.05	60202.07	41459.61	5337.779	-5699.04	1709003	565929.2	12220.1	77131.05	60202.07	41459.61	9835.186	5337.779	-5699.0382	1709002.989	565929.2
-0.1209	11.41	188.5411	87.8778	6.855	154.2577		45609.1	75222.85	45252.54	17236.74	-5139.69	1649644	646044.7	11695.59	45609.1	75222.85	45252.54	8075.006	17236.74	-5139.6853	1649643.56	646044.7
0.2102	12.1657	106.2946	88.4705	7.3676	144.1524		67482.19	63590.91	42338.39	306.814	-4736.64	1824047	417275.6	10438.05	67482.19	63590.91	42338.39	11160.21	306.8141	-4736.6388	1824046.804	417275.6
0.5754	11.7985	176.9913	87.1006	7.6991	155.1286		59894.52	64566.32	42589.63	10140.78	-5503.19	1673383	614140.2	12083.55	59894.52	64566.32	42589.63	12945.07	10140.78	-5503.1803	1673382.948	614140.2
-0.5034	11.8435	182.6783	87.3191	8.025	149.8483		72473.04	61894.44	41897.73	9156.752	-5523.93	1653086	628805	12128.74	72473.04	61894.44	41897.73	8272.281	9156.752	-5523.931	1653085.882	628805
-1.0653	12.1745	150.9728	87.3407	8.9639	140.7749		80674.3	55765.23	40285.44	1392.555	-5681.91	1726153	543152.6	12218.14	80674.3	55765.23	40285.44	3745.046	1392.555	-5681.9102	1726152.681	543152.6
-0.053	12.6419	114.8502	86.4721	7.4783	151.9362		171847.69	62471.24	42049.67	696.9884	-5414.1	1808291	438847.5	11880.81	171847.69	62471.24	42049.67	9858.244	696.9884	-5414.1002	1808290.512	438847.5
0.389	11.839	128.3576	87.6688	9.68	138.778		73902.82	58167.5	40924.66	270.2349	-4528.07	1765147	487214.8	9688.135	73902.82	58167.5	40924.66	9026.969	270.2349	-4528.0725	1765147.3027	487214.8
0.9855	11.788	152.9536	88.1297	9.0665	157.3518		73259.3	62980.33	42181.14	6266.623	-5500.12	1721132	549298.3	12072.29	73259.3	62980.33	42181.14	13661.43	6266.623	-5500.1231	1721132.164	549298.3
0.5692	11.3552	131.1719	88.4429	7.9228	154.6636		66184.81	66015.28	42968.25	5155.993	-5298.49	167165	488978.6	11638.82	66184.81	66015.28	42968.25	13447.1	5155.993	-5298.4921	167165.288	488978.6
0.4895	11.2449	100.7588	87.9392	9.7285	148.6087		66161.03	64009.99	42465.37	7417.54	-4474.48	1836948	400927.3	9860.748	66161.03	64009.99	42465.37	12440.11	315.9858	-4435.2912	1836510.234	401450.8
2.1087	11.5867	163.8599	87.4138	7.8343	158.7874		76737.92	62021.71	41933.31	6967.291	-5404.63	1697562	580103.2	11871.47	76737.92	62021.71	41933.31	17691.68	6967.291	-5404.6289	1697561.838	580103.2
-0.4642	10.8201	207.1347	86.4636	6.6937	147.0839		66686.26	64056.55	42457.99	13253.33	-5040.96	1613525	695964.8	11106.36	66686.26	64056.55	42457.99	9165.692	13253.33	-5040.9642	1613524.629	695964.8
-0.4371	10.471	116.1843	87.2193	8.3623	149.3372		63336.79	66574.5	42871.54	2859.787	-4884.14	1794968	447161.6	10754.2	63336.79	66574.5	42871.54	9845.098	2859.787	-4884.1327	1794967.751	447161.6
0.4807	11.3748	116.4259	87.1102	7.0831	154.8882		66744	65640.91	42862.99	2597.252	-5309.03	1803219	444518.6	11657.76	66744	65640.91	42862.99	12960.52	2597.252	-5309.0257	1803218.848	444518.6
1.0694	11.4129	156.5439	86.6359	8.6889	145.4382		87255.85	53983.28	39085.68	1106.944	-5093.66	1708590	563044.2	11208.81	87255.85	53983.28	39085.68	10067.88	1106.944	-5093.6578	1708590.596	563044.2
-0.2899	11.3416	146.3707	86.4675	6.9837	150.6214		57694.03	63490.13	43832.25	7244.986	-5147.28	1762802	436811.2	11427.66	57694.03	63490.13	43832.25	8056.174	7244.986	-5147.2802	1762801.932	436811.2
0.2099	11.4166	92.1323	88.1334	7.7634	137.8659		66456.18	62409.9	42033.81	217.0547	-4240.63	1861060	371221.8	9256.286	62409.9	42033.81	41844.21	94270.97	217.0547	-4240.6257	1861059.165	3714789
-1.1737	12.1664	108.0127	87.9216	8.0968	155.0906		61359.68	67945.13	43446.72	3009.456	-5682.05	1828608	54530.4	12448.92	61359.68	67945.13	43446.72	8401.202	3009.456	-5682.0544	1828608.042	54530.4
-0.1801	12.3669	152.0632	87.6668	8.2297	152.8251		62747.82	67977.7	43156.8	8700.153	-5772.37	1726334	544306.1	12651	62747.82	67977.7	43156.8	6319.684	8700.153	-5772.3916	1726333.55	544306.1
-0.1462	12.5545	150.5594	85.9555	9.0887	148.3235		84515.41	55240.96	40144.8	987.1955	-5479.023	1725938	542827.2	12026.94	84515.41	55240.96	40144.8	6968.018	987.1955	-5479.0234	1725937.811	542827.2
0.8951	12.2437	123.2122	87.4983	7.7225	143.437		75576.51	59503.75	41276.64	11812.5	304.1596	-4694.7324	1797976.388	10353.12	75576.51	59503.75	41276.64	11812.5	304.1596	-4694.7324	1797976.388	470189.8
-0.3413	10.7144	138.6557	87.9049	8.1681	138.2932		77041.69	56865.04	40579.14	841.2244	-4698.83	1742984.727	51969.5	10365.46	77041.69	56865.04	40579.14	6996.97	841.2244	-4698.8321	1742984.727	51969.5
0.5882	12.7898	150.3702	88.3348	7.6226	149.5709		66489.45	56492.28	40479.8	1669.497	-5922.97	1731255	536218.8	12970.81	66489.45	56492.28	40479.8	9558.438	1669.497	-5922.9682	1731254.636	536218.8
-1.1698	11.4701	119.9664	87.9889	8.1012	138.4027		70609.46	59177.21	41190.86	343.5473	-4464.08	1785755	450314.6	9861.145	70609.46	59177.21	41190.86	1285.62	343.5473	-4464.0816	1785251.274	450314.6
-1.2046	12.0427	168.6424	87.406	8.2919	152.3565		65937.84	65184.24	42746.56	9634.686	-5816.67	1891224	590416.6	12327.46	65937.84	65184.24	42746.56	7399.873	9634.686	-5816.6742	1891224.309	590416.6
0.4602	11.604	125.1657	88.2996	8.0364	155.0589		67462.96	65371.56	42794.35	3996.56	-5416.01	1872751	470088.7	11887.32	67462.96	65371.56	42794.35	12771.61	3996.56	-5416.0052	1872750.622	470088.7
0.9966	11.4218	164.5493	87.2741	7.8607	151.9365		70033.67	63421.72	42294.86	7838.621	-5327.03	1695189	582717.7	11706.63	70033.67	63421.72	42294.86	10692.94	7838.621	-5327.0309	1695189.179	582717.7
-0.6655	11.3616	146.3707	86.4675	6.9837	150.6214		65649.03	65121.61	42728.9	6906.141	-5300.15	1762802	436811.2	11645.72	65649.03	65121.61	42728.9	8056.174	6906.141	-5300.1532	1762801.932	436811.2
0.7622	11.3598	173.6744	87.4772	8.1798	143.8669		87880.95	53957.79	43771.7	2971.222	-5297.14	1676928	607459.2	11647.66	87880.95	53957.79	43771.7	9056.1	2971.222	-5297.1365	1676927.896	607459.2
-1.7128	12.4037	101.7091	87.2834	8.1373	148.0094		63322.82	65570.27	42844.99	630.6212	-5329.25	1841866	398537.1	11689.1	6							

TABLE 5

10 BG Ethanol

S146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil prices draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Mandate	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	PS of Ethanol Producers	Government Revenue	CS of Fuel users	PS of gasoline producers	Tax Credit	Total ethanol demand	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of corn Importers	PS of Ethanol Producers	Government Revenue	CS of Fuel users	PS of gasoline producers
1.4594	11.1539	156.9759	86.4365	8.9943	150.3109		87177.83	54896.19	40052.08	1723.173	-5188.49	1708871.852	563344.5	11410.52	87177.83	54896.19	40052.08	11763.17	1723.173	-5188.4867	1708871.852	563344.5	
-0.7866	11.7839	107.9721	87.5585	8.2019	149.1124		66756.29	64278.06	4254.18	853.2505	-5275.39	1624756	418532.5	11584.14	66756.29	64278.06	4254.18	8280.842	853.2505	-5275.3874	1624756.44	418532.5	
-2.1844	12.2619	177.6439	87.8928	9.7722	149.6857		59055.89	68443.57	43572.19	12361.22	-5719.62	122651.69	513438.7	12361.22	59055.89	68443.57	43572.19	12361.22	8937.487	-5719.62	122651.69	513438.7	
-1.5053	12.177	194.6309	88.9317	7.2092	148.8426		65527.02	65272.59	42769.11	12791.57	-5679.94	1643973	657769.3	12462.56	65527.02	65272.59	42769.11	6622.297	12791.57	-5679.9353	1643972.745	657769.3	
-0.6691	11.6905	114.7426	86.4447	7.4686	141.045		68712.98	61526.45	41804.81	376.7902	-4643.02	1800713	444614	10241.1	68712.98	61526.45	41804.81	7675.343	376.7902	-4643.0172	1800713.158	444614	
1.7069	11.1167	133.1201	86.6377	7.7886	152.2709		80280.64	58881.38	4113.01	1219.119	-5104.63	1760432	496266.4	11227.04	80280.64	58881.38	4113.01	14507.34	1219.119	-5104.6271	1760432.285	496266.4	
-0.2876	12.5691	116.9319	87.4886	6.9643	147.7992		72223.34	62044.47	4193.21	749.5804	-5431.34	1803561	445273.7	11917.98	72223.34	62044.47	4193.21	8970.6	749.5804	-5431.3369	1803506.978	445273.7	
2.1275	11.9512	114.5805	87.0828	6.8029	148.1226		77997.07	57864.5	41082.22	191.513	-4366.71	1798980	444713.3	9643.541	77997.07	57864.5	41082.22	16586.17	125.1859	-4274.8271	1797751.881	446184.5	
1.8383	10.6542	110.4559	87.2047	6.8496	150.7812		71037.02	63114.14	42215.64	725.2829	-4704.54	1812567	430726.3	10370.85	71037.02	63114.14	42215.64	17104.14	725.2829	-4704.5383	1812566.781	430726.3	
1.0766	11.0648	127.3236	86.8717	7.486	154.0109		71788.12	63034.45	42195.1	2888.299	-5162.3	1774801	478643.6	11348.34	71788.12	63034.45	42195.1	14028.61	2888.299	-5162.2973	1774801.193	478643.6	
0.0193	10.8183	175.4351	86.7594	7.4605	147.5353		70749.76	62154.26	41967.65	8077.981	-5042.4	1670174	416458.9	11103.62	70749.76	62154.26	41967.65	9967.224	8077.981	-5042.4006	1670173.846	416458.9	
-1.2148	11.3436	134.3406	85.1889	7.7457	153.6832		62727.18	66251.45	43018.25	6879.154	-5291.97	1793558	524166.1	11267.67	62727.18	66251.45	43018.25	7719.119	6879.154	-5291.9712	1793567.958	524166.1	
0.4727	12.0133	158.3526	87.1846	6.6443	156.2724		68443.32	65388.12	42798.57	8500.103	-5605.62	1711247	563191.7	12927.71	68443.32	65388.12	42798.57	12823.95	8500.103	-5605.6215	1711246.655	563191.7	
2.3018	12.0202	81.9484	87.472	8.9654	140.8123		79943.22	56159.59	40391.05	99.5567	-3670.77	1887153	336705.9	7845.154	79943.22	56159.59	40391.05	14917.88	14917.88	-296.145	1887153.006	336705.9	
0.6322	11.3336	160.3395	87.9518	7.14	152.4573		69792.48	64593.82	42593.11	8094.567	-5295.83	1701947	579277.6	11618.29	69792.48	64593.82	42593.11	13022.23	8094.567	-5295.8253	1701946.96	579277.6	
0.1331	9.6609	174.6771	87.7019	8.8233	149.9199		62543.47	67599.52	42900.82	9527.414	-4490.04	1664566	617738.6	9965.25	62543.47	67599.52	42900.82	11705.69	9367.738	-4495.3354	1664452.612	617738.6	
1.0226	12.3731	106.1765	86.6794	7.7926	144.4878		71267.42	61493.16	41796.16	120.4878	-4419.28	1821651	418296.5	9745.742	71267.42	61493.16	41796.16	13440.96	75.5462	-4352.7178	1820837.489	419294.5	
0.2046	11.2674	274.9041	87.0579	8.4038	151.0661		72939.47	61680.98	41844.94	17244.35	-5247.28	181855	852617	11555.33	72939.47	61680.98	41844.94	10380.98	17244.35	-5247.2778	181854.635	852617	
-0.205	12.4006	142.9092	88.9305	6.8217	146.7178		77144.04	60318.48	41490.05	3292.152	-5789.01	1746157	518486.8	12684.42	77144.04	60318.48	41490.05	8590.159	3292.152	-5789.0132	1746156.835	518486.8	
-0.1175	11.9798	123.9456	86.4977	8.839	154.9064		73828.5	61689.02	41847.03	1541.957	-5859.01	1787475	465075	12238.47	73828.5	61689.02	41847.03	9360.379	1541.957	-5859.0282	1787474.508	465075	
-0.6652	11.4838	200.9707	86.8258	9.4889	141.345		85840.38	53137.36	39576.18	5442.221	-5353.52	1628410	677240.5	11769.75	85840.38	53137.36	39576.18	5016.618	5442.221	-5353.5228	1628410.47	677240.5	
1.5733	10.3671	124.3978	87.1662	8.0828	141.1489		80628.17	56201.92	40402.27	610.3248	-4303.55	1773725	474734	9540.404	80628.17	56201.92	40402.27	57349.18	40707.86	-4192.0067	1772035.761	474734	
-0.1896	11.7476	136.8862	87.6869	9.3035	133.488		81629.28	52899.87	39511.54	248.8737	-4313.51	1739697	517148.8	9577.523	81629.28	52899.87	39511.54	6416.421	156.3745	-4207.8448	1739695.767	519106.7	
-1.5037	10.9485	151.8056	88.2096	8.1372	146.608		60234.65	67000.38	43208.12	810.839	-5105.47	1718731	549759.8	11232.95	60234.65	67000.38	43208.12	7162.263	810.839	-5105.4752	1718730.879	549759.8	
0.7844	11.4449	116.0675	87.7287	8.32	142.0842		74104.15	59481.66	41270.84	326.3278	-4426.32	1795491	494424.4	9776.067	74104.15	59481.66	41270.84	11668.55	276.2565	-4368.9337	1794707.168	494424.4	
0.9583	10.2545	152.222	88.3797	6.0823	146.3685		67027.62	64685.58	42619.15	6690.523	-4779.1236	1713845	553953.4	10539.15	67027.62	64685.58	42619.15	14325.49	6690.523	-4779.1236	1713845.207	553953.4	
-0.3269	10.9229	105.9682	86.9299	10.51	145.0536		68192.4	61613.21	41827.35	416.509	-4400.17	1822071	417693.8	9705.932	68192.4	61613.21	41827.35	62396.09	4070.742	-4324.542	1821086.401	418851.8	
0.9509	10.4651	160.4322	87.9231	9.8509	143.2532		70487.72	5581.17	39142.69	306.6261	-5204.86	1684981	422	9047.79	70487.72	5581.17	39142.69	906.6261	306.6261	-5204.8688	1684981.422	422	
-1.3597	10.8329	148.0554	86.9698	7.0702	151.2385		55046.75	70138.12	43996.72	9210.717	-5098.64	1731085	533628.1	11217.19	55046.75	70138.12	43996.72	8591.757	9210.717	-5098.6418	1731084.988	533628.1	
0.8594	11.0872	169.384	88.3066	6.8823	158.5993		57334.82	70770.55	44593.67	12837.56	-5169.3	1683566	597287.3	11372.24	57334.82	70770.55	44593.67	16729.07	12837.56	-5169.3034	1683565.537	597287.3	
-0.2357	10.4687	195.4723	87.0223	8.1504	146.2408		68705.29	62625.83	42089.63	10187.39	-4876.52	1631134	668381.4	10754.71	68705.29	62625.83	42089.63	9343.621	10187.39	-4876.5236	1631133.6	668381.4	
1.3635	11.6957	164.0653	87.0857	8.3759	150.4471		88011.64	55173.93	40126.78	2679.82	-5455.58	1697806	580166.3	11980.43	88011.64	55173.93	40126.78	11554.57	2679.82	-5455.5858	1697806.065	580166.3	
0.1647	12.8988	149.2568	86.446	9.9865	139.5138		85251.02	53699.31	39728.76	102.6548	-4543.04	1717389	547781.1	10036.54	85251.02	53699.31	39728.76	7271.957	102.6548	-4543.0363	1717389.547	547781.1	
0.1531	11.3166	178.9957	85.666	7.4578	145.5748		82834.23	55942.92	40333.01	4886.69	-5276.42	1666561	621702.1	11601.84	82834.23	55942.92	40333.01	8044.905	4886.69	-5276.4232	1666560.644	621702.1	
-0.9031	11.9789	112.6117	86.612	9.4011	139.8815		69665.66	60080.43	41427.28	203.0945	-4422.27	1804467	438663.6	9761.936	69665.66	60080.43	41427.28	41592.44	6769.777	-4422.274	1804467.581	438663.6	
-0.193	10.9584	159.2936	86.8625	7.0388	148.6529		61738.49	66620.39	43111.87	8862.865	-5109.55	1703590	570471.7	11243.16	61738.49	66620.39	43111.87	8481.588	8862.865	-5109.5452	1703899.629	570471.7	
0.93	11.0594	209.1044	87.9981	8.635	144.1203		70242.38	61667.79	41841.52	10642.9	-4683.11	1605022	704717.6	10345.94	70242.38	61667.79	41841.52	10338.02	10642.9	-4683.1062	1605021.525	704717.6	
-1.0623	10.7627	165.923	86.6213	8.1448	150.7787		54885.99	70315.25	44040.92	11462.88	-5017.02	1689119	588539.1	11047.72	54885.99	70315.25	44040.92	9559.207	11462.88	-5017.0207	1689118.936	588539.1	
0.9444	10.5758	149.943	87.3002	6.5466	144.6035		76749.86	59457.32	41264.45	3640.921	-4930.39	1720486	546295.9	10860.3	76749.86	59457.32	41264.45	11964.75	3640.921	-4930.3908	1720485.995	546295.9	
1.6317	12.8072	155.4362	87.7321	10.0345	149.3911		68989.53	5798.74	39755.71	719.6241	-5234.67	1816550	589716.7	11508.4	68989.53	5798.74	39755.71	11870.75	719.6245	-5234.6628	1816549.733	589716.7	
0.3617	10.2601	152.9774	87.6506	7.974	141.0691		77360.23	57984.74	40852.5	3083.361	-4781.68	1712259	556045.5	10541.74	77360.23	57984.74	40852.5	9401.444	3083.361	-4781.6767	1712259.490	556045.5	
-0.2516	11.122	133.6081	86.3993	9.0873	150.3841		79137.88	58275.74	40953.26	1576.521	-5492.98	1750019	511700.										

Export shock draws	Ethanol capacity draws	Crude oil prices draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Mandate	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	PS of Ethanol Producers	Government Revenue	CS of Fuel users	PS of gasoline producers	Total ethanol demand	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of Ethanol Importers	PS of Ethanol Producers	Government Revenue	CS of Fuel users	PS of gasoline producers	Tax Credit							
0.3389	11.4595	117.7222	86.1516	8.9666	138.6209	78087.41	55831.65	40303.23	242.553	-4211.86	1789946	454170.3	9321.228	74345.99	57564.88	40765.1	9203.961	106.467	-4038.2412	1787578.709	457030.8	9321.228	74345.99	57564.88	40765.1	9203.961	106.467	-4038.2412	1787578.709	457030.8
0.6669	12.5478	126.9916	86.5203	8.9648	142.257	79641.95	55806.36	40296.46	82.8181	-4361.53	1767688	482622.6	9652.941	77683.74	56692.92	40533.29	9886.885	23.4015	-4272.8188	1766361.536	484186.6	9652.941	77683.74	56692.92	40533.29	9886.885	23.4015	-4272.8188	1766361.536	484186.6
-0.4941	11.7412	117.9579	86.7675	7.1304	151.4903	71352.05	57108.96	42224.14	98.4411	-4214.11	18081.26	433411.4	11289.772	72893.72	6295.9637	42292.49	10087.967	524.878	-4300.728	18087.164	537653.5	11289.772	72893.72	6295.9637	42292.49	10087.967	524.878	-4300.728	18087.164	537653.5
-2.3409	10.6727	154.0941	87.333	7.5248	145.4499	54354.46	69439.26	43822.02	96.3411	-4975.59	1712723	557354.2	10957.27	54354.46	69439.26	43822.02	5733.586	96.3411	-4975.591	1712723.26	557354.2	10957.27	54354.46	69439.26	43822.02	5733.586	96.3411	-4975.591	1712723.26	557354.2
0.2252	11.2116	134.0247	86.7096	8.5432	147.6981	74607.67	58701.25	41065.55	1215.751	-5141.03	1758735	498601.6	11304.66	77607.67	58701.25	41065.55	9289.433	1215.751	-5141.032	1758735.393	498601.6	11304.66	77607.67	58701.25	41065.55	9289.433	1215.751	-5141.032	1758735.393	498601.6
0.9119	11.599	129.3947	88.2526	7.9248	142.4478	77581.57	58409.35	40988.55	111.0607	-4732.38	1765102	488444.5	10434.67	77581.57	58409.35	40988.55	11403.9	1611.0606	-4732.3843	1765101.79	488444.5	10434.67	77581.57	58409.35	40988.55	11403.9	1611.0606	-4732.3843	1765101.79	488444.5
-0.4639	10.847	141.1574	87.7439	8.3074	140.6912	71721.08	57804.8	40828.69	1617.461	-5075.35	1741407	520065.2	11164.41	71721.08	57804.8	40828.69	6984.14	1617.461	-5075.3548	1741406.755	520065.2	11164.41	71721.08	57804.8	40828.69	6984.14	1617.461	-5075.3548	1741406.755	520065.2
0.6964	10.4302	112.2943	87.8905	8.1593	150.2209	67768.52	64190.64	42492.39	1540.24	-4865.32	1809336	435237.7	10713.21	67768.52	64190.64	42492.39	13135.41	1540.24	-4865.3177	1809335.525	435237.7	10713.21	67768.52	64190.64	42492.39	13135.41	1540.24	-4865.3177	1809335.525	435237.7
-0.2906	10.7926	150.2511	88.7597	7.806	155.6836	51969.58	72539.09	44592.99	10904.72	-5032.32	1721170	546078.9	11077.07	51969.58	72539.09	44592.99	13022.12	10904.72	-5032.3193	1721170.236	546078.9	11077.07	51969.58	72539.09	44592.99	13022.12	10904.72	-5032.3193	1721170.236	546078.9
0.4458	11.0993	128.4964	87.7404	8.7274	155.4888	66038.34	65691	42875.74	4568.282	-5174.18	1772124	482030.2	11373.87	66038.34	65691	42875.74	12855.15	4568.282	-5174.177	1772123.578	482030.2	11373.87	66038.34	65691	42875.74	12855.15	4568.282	-5174.177	1772123.578	482030.2
-0.2179	12.7929	179.7756	88.2016	6.6049	147.3722	81402.95	58463.12	41002.74	6840.561	-5670.262	1674453	616760.4	13077.88	81402.95	58463.12	41002.74	7888.841	6840.561	-5970.6208	1674452.503	616760.4	13077.88	81402.95	58463.12	41002.74	7888.841	6840.561	-5970.6208	1674452.503	616760.4
-0.749	10.4246	149.1943	87.7826	6.6602	139.7837	67854.68	62483.86	42052.94	5214.238	-4869.33	1721357	544695.2	10709.03	67854.68	62483.86	42052.94	7775.168	5214.238	-4859.3273	1721357.257	544695.2	10709.03	67854.68	62483.86	42052.94	7775.168	5214.238	-4859.3273	1721357.257	544695.2
0.5886	11.777	166.2376	88.1997	6.6822	150.8658	72746.92	62800.53	42134.75	7798.872	-5493.88	1693800	585903	12061.72	72746.92	62800.53	42134.75	12035.39	7798.872	-5493.8796	1693800.276	585903	12061.72	72746.92	62800.53	42134.75	12035.39	7798.872	-5493.8796	1693800.276	585903
-0.2772	11.5098	137.3633	87.8329	9.0798	141.1559	78028.23	57212.9	40671.66	772.3313	-4949.37	1748440	510006.5	10897.87	78028.23	57212.9	40671.66	7288.716	772.3313	-4949.3668	1748440.077	510006.5	10897.87	78028.23	57212.9	40671.66	7288.716	772.3313	-4949.3668	1748440.077	510006.5
-2.2293	11.3509	146.876	87.5993	8.842	151.5834	69305.47	63412.51	42292.49	5667.719	-5295.12	1731642	534165.8	11635.13	69305.47	63412.51	42292.49	8697.14	5667.719	-5295.1243	1731641.869	534165.8	11635.13	69305.47	63412.51	42292.49	8697.14	5667.719	-5295.1243	1731641.869	534165.8
0.6382	11.7908	137.6917	87.417	8.9581	148.8368	81258.89	57515.1	40751.99	919.6369	-5183.55	1750903	509873.4	11395.88	81258.89	57515.1	40751.99	10779.72	919.6369	-5183.5484	1750903.095	509873.4	11395.88	81258.89	57515.1	40751.99	10779.72	919.6369	-5183.5484	1750903.095	509873.4
-0.093	12.7191	146.6431	87.8146	8.2887	152.2849	79988.84	59294.35	41221.65	3097.801	-5938.81	1739938	527668.5	13003.71	79988.84	59294.35	41221.65	8549.576	3097.801	-5938.807	1739837.507	527668.5	13003.71	79988.84	59294.35	41221.65	8549.576	3097.801	-5938.807	1739837.507	527668.5
-0.1923	10.7608	140.3076	87.0899	9.1814	139.0306	77880.05	56365.22	40445.89	760.1372	-4644.33	1738574	51242.8	10249.95	77880.05	56365.22	40445.89	7228.856	760.1372	-4644.3339	1738574.254	51242.8	10249.95	77880.05	56365.22	40445.89	7228.856	760.1372	-4644.3339	1738574.254	51242.8
-2.1005	12.1042	141.9913	88.2229	10.621	151.2343	65381.11	64650.97	42610.29	9332.555	-5648.7	1746542	517121.9	12388	65381.11	64650.97	42610.29	4995.976	9332.555	-5648.7015	1746542.198	517121.9	12388	65381.11	64650.97	42610.29	4995.976	9332.555	-5648.7015	1746542.198	517121.9
3.1959	10.9996	172.9401	87.7645	9.3766	152.7645	94468.52	52964.3	39529.08	2351.174	-5172.85	1676105	607184.4	11284.81	94468.52	52964.3	39529.08	17489	2351.174	-5172.8529	1676105.436	607184.4	11284.81	94468.52	52964.3	39529.08	17489	2351.174	-5172.8529	1676105.436	607184.4
0.7113	10.2108	128.6441	87.3121	9.6473	150.7888	70524.11	62285.41	42001.6	2630.535	-4760.64	1767219	485968.2	10494.57	70524.11	62285.41	42001.6	12356.59	2630.535	-4760.6373	1767218.571	485968.2	10494.57	70524.11	62285.41	42001.6	12356.59	2630.535	-4760.6373	1767218.571	485968.2
-0.3415	12.0344	129.2578	87.4656	7.5468	142.4263	75885.97	58980.44	41139.09	705.6697	-5117.74	1769687	484765.9	11254.04	75885.97	58980.44	41139.09	7720.703	705.6697	-5117.7416	1769687.043	484765.9	11254.04	75885.97	58980.44	41139.09	7720.703	705.6697	-5117.7416	1769687.043	484765.9
-0.7555	11.4062	146.4346	88.1895	9.0597	150.7349	65778.91	64995.94	42698.49	6568.708	-5321.14	1732914	532682.1	11690.35	65778.91	64995.94	42698.49	8621.696	6568.708	-5321.1405	1732913.6	532682.1	11690.35	65778.91	64995.94	42698.49	8621.696	6568.708	-5321.1405	1732913.6	532682.1
-0.6313	12.6611	143.4341	86.8946	9.4437	143.7195	80338.08	56097.22	40374.29	652.5242	-5230.556	1739071	524152.7	11497.04	80338.08	56097.22	40374.29	5999.372	652.5242	-5230.5553	1739071.425	524152.7	11497.04	80338.08	56097.22	40374.29	5999.372	652.5242	-5230.5553	1739071.425	524152.7
-0.2287	11.8063	165.8366	87.5	8.4843	150.15	77928.05	59053	41158.19	5397.682	-5507.69	1694949	584447.7	12090.99	77928.05	59053	41158.19	8066.718	5397.682	-5507.6934	1694948.888	584447.7	12090.99	77928.05	59053	41158.19	8066.718	5397.682	-5507.6934	1694948.888	584447.7
1.5308	11.9985	138.1302	86.7058	8.3878	144.2096	82231.68	56378.92	40449.54	396.4715	-4694.31	1744140	514481.6	10355.72	82231.68	56378.92	40449.54	52683.27	396.4715	-4694.3113	1744140.056	514481.6	10355.72	82231.68	56378.92	40449.54	52683.27	396.4715	-4694.3113	1744140.056	514481.6
-0.0813	11.5528	133.3642	88.9438	8.1204	151.309	66316.83	65551.56	42840.23	5214.49	-5391.19	1763089	494510.6	11836.44	66316.83	65551.56	42840.23	11026.15	5214.49	-5391.1949	1763089.087	494510.6	11836.44	66316.83	65551.56	42840.23	11026.15	5214.49	-5391.1949	1763089.087	494510.6
0.1862	11.318	163.5782	86.9385	6.5521	144.9434	97887.21	50448.09	38697.31	1771.594	-5294.46	1660551	631801.4	97887.21	50448.09	38697.31	1771.594	11834.13	1771.594	-5294.4593	1660550.538	631801.4	97887.21	50448.09	38697.31	1771.594	11834.13	1771.594	-5294.4593	1660550.538	631801.4
-0.1862	11.2353	149.4561	87.8082	7.7408	150.8538	61797.75	67079.54	43228.15	540.278	-4823.06	1857858	378276.9	10618.7	61797.75	67079.54	43228.15	12513.55	540.278	-4823.0619	1857852.13	378276.9	10618.7	61797.75	67079.54	43228.15	12513.55	540.278	-4823.0619	1857852.13	378276.9
0.4598	12.2356	178.4097	86.2643	8.1702	150.022	86912.85	55408.94	40189.9	4525.152	-5708.66	1673460	615828.3	12520.68	86912.85	55408.94	40189.9	8744.742	4525.152	-5708.6594	1673459.958	615828.3	12520.68	86912.85	554						

TABLE 5

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws		PS of Corn Growers	CS of Domestic Feeders	CS of Food users	PS of Ethanol Producers	Government Revenue	CS of Fuel users	PS of gasoline producers	Total ethanol demand	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of Corn Importers	PS of Ethanol Producers	Government Revenue	CS of Fuel users	PS of gasoline producers
						Mandate								Tax Credit								
-1.4278	10.5225	126.6579	87.7199	9.3074	153.0523		52702.04	71040.79	44221.6	7065.49	-4907.37	1773626	478796.7	18086.11	52702.04	71040.79	44221.6	8692.441	7065.49	-4907.3684	1773625.745	478796.7
-1.4412	12.9553	139.6704	87.4463	7.9642	154.6597		6764.13	65013.47	42702.96	5980.015	-6050.1	1756329	508962.1	13238.87	6764.13	65013.47	42702.96	6710.073	5980.015	-6050.1034	1756329.497	508962.1
-1.0722	12.2545	131.8247	89.4915	8.4474	155.3247		75305.13	59750.82	41341.45	1434.265	-5588.88	172020.91	1434.265	12242.92	75305.13	59750.82	41341.45	1434.265	1434.265	-5588.88	172020.91	1434.265
-0.4006	12.6671	120.8179	88.2388	8.2949	149.9703		73804.69	61591.81	41821.79	967.2778	-5648.1	1795803	455139.3	12378.83	73804.69	61591.81	41821.79	8468.798	967.2778	-5648.1037	1795802.813	455139.3
-0.6136	12.0834	1183.2011	85.1098	8.5383	144.2686		89740.58	51846.72	39223.78	2637.724	-5636.72	1763659	629023.4	12368.59	89740.58	51846.72	39223.78	4753.914	2637.724	-5636.7024	1763658.622	629023.4
-1.0971	11.7787	141.5109	88.4218	9.2789	146.5411		83014.77	56524.31	44088.34	824.3948	-5081.57	1749626	520814.8	11179.89	83014.77	56524.31	44088.34	11230.64	824.3948	-5081.5658	1749611.606	520814.8
-0.5963	10.9873	180.5706	87.7148	7.7647	154.6256		55978.08	70288.49	40434.24	13262.31	-5121.46	1661524	627391.5	11272.68	55978.08	70288.49	40434.24	11062.4	13262.31	-5121.4568	1661524.228	627391.5
-1.5568	11.0676	170.2535	86.0894	9.3031	150.3307		64083.95	64753.46	42636.51	9111.118	-5160	1681750	599663.3	11352.63	64083.95	64753.46	42636.51	6332.117	9111.118	-5159.9995	1681749.713	599663.3
-1.6156	11.7991	110.9224	86.5111	8.8287	154.4111		72024.49	62752.44	41222.33	486.5133	-4859.4	1812856	431013.4	10700.28	72024.49	62752.44	41222.33	16009.1	486.5133	-4859.4017	1812855.914	431013.4
-1.4652	10.8004	118.198	87.9068	7.8123	154.6795		47362.49	74234.09	45010.37	7734.6338	-5038.82	1795949	452110.5	11083.61	47362.49	74234.09	45010.37	9668.238	7734.6338	-5038.8225	1795949.161	452110.5
-0.7393	9.9865	115.3621	85.8254	7.574	148.1279		69719.49	62322.79	42011.28	1002.097	-4589.67	1798563	446962.2	10127.83	69719.49	62322.79	42011.28	12472.54	1002.097	-4589.6722	1798562.889	446962.2
-0.1592	11.0469	84.9758	87.1487	7.7372	148.6025		58266.93	68046.97	43472.38	333.8783	-4459.32	1883005	348233.3	9802.425	58266.93	68046.97	43472.38	11875.25	291.9159	-4402.8442	1882494.771	348895.5
-0.352	11.4235	186.7499	87.6876	8.3506	146.3023		81284.42	57293.68	40693.12	6959.78	-5326.17	1652960	641366.1	11709.04	81284.42	57293.68	40693.12	9139.901	6959.78	-5326.1655	1652960.355	641366.1
-0.7702	12.5452	160.4402	87.4757	8.0778	145.3321		99593.19	54485.69	39941.44	1653.118	-5790.4	1709330	567135.3	12690.98	99593.19	54485.69	39941.44	9137.958	1653.118	-5790.3966	1709329.851	567135.3
-1.4998	10.5639	151.308	86.2837	6.0937	144.4386		62339.34	64921.7	42679.52	6830.054	-4924.89	1717587	520039.8	10848.46	62339.34	64921.7	42679.52	5734.437	6830.054	-4924.894	1717587.469	520039.8
-0.9245	11.4756	145.3848	87.3418	7.8113	156.8966		54879.2	71068.34	44228.7	10968.888	-5353.87	1735638	529358.5	11755.71	54879.2	71068.34	44228.7	10269	9948.888	-5353.8666	1735638.373	529358.5
-1.1499	11.7644	99.8076	87.3774	7.4134	151.2356		66040.07	65235.15	42759.56	327.795	-4660.97	1841179	398982.4	10275.44	66040.07	65235.15	42759.56	15323.94	327.7949	-4660.9721	1841179.33	398982.4
-0.2345	12.3592	145.6403	87.9104	6.9661	153.3596		99445.55	64527.37	42578.66	6399.265	-5769.31	1739979	526382.9	12643.11	99445.55	64527.37	42578.66	10661.08	6399.266	-5769.3114	1739978.508	526382.9
-0.2997	12.2285	101.2862	86.2706	8.7242	146.7223		65115.86	63848.36	41204.55	161.6188	-4487.68	1835558	402662.5	9892.554	65115.86	63848.36	41204.55	9695.117	142.9805	-4457.7044	1835215.123	403067.1
2.1246	10.3951	149.7892	86.5577	8.6201	152.8039		80443.71	58536.94	41022.22	3084.792	-4845.42	1719942	546444.6	10679.59	80443.71	58536.94	41022.22	15988.65	3084.792	-4845.4241	1719941.538	546444.6
-0.3229	11.9752	99.2913	87.2974	6.0626	143.2884		66275.93	62861.65	42150.52	173.5211	-4391.98	1840547	396009.8	10654.44	66275.93	62861.65	42150.52	9465.959	113.2674	-4293.5156	1839479.137	397297.4
2.3777	10.9255	111.456	86.412	9.1535	155.3548		72821.14	63228.9	42245.21	869.984	-4923.77	1812114	432162.5	9837.33	72821.14	63228.9	42245.21	19497.24	869.984	-4923.7725	1812114.42	432162.5
1.423	11.2133	118.4159	86.6926	8.2181	151.2079		74189.72	61094.87	41692.57	629.7471	-4780.78	1792713	454858.3	10534.96	74189.72	61094.87	41692.57	14458.86	629.7471	-4780.7842	1792712.805	454858.3
2.2125	11.9398	199.5849	86.5835	8.189	148.5569		101331.1	49145.59	38477.03	2576.395	-5567.76	1633828	671497.5	12224.95	101331.1	49145.59	38477.03	11748.74	2576.394	-5567.7579	1633827.533	671497.5
-0.4424	10.7809	157.3439	89.325	9.0312	147.333		71303.14	62257.86	41994.47	6116.681	-5026.23	1760801	565890.8	11065.62	71303.14	62257.86	41994.47	11407.38	6116.681	-5026.2297	1760801.066	565890.8
-1.1006	10.9713	172.7272	87.9745	7.4191	149.8054		57555.93	68962.95	43702.64	11627.93	-5114.58	1677223	605536.3	11256.46	57555.93	68962.95	43702.64	8967.452	11627.93	-5114.5796	1677223.338	605536.3
-0.2975	11.4904	177.6193	86.6349	8.2488	142.4072		64502.22	63635.12	42349.75	9495.001	-5388.26	1670244	617266.9	11775.57	64502.22	63635.12	42349.75	3336.717	9495.001	-5388.2586	1670244.666	617266.9
-1.4989	10.4598	132.1739	86.0886	8.4335	153.873		68233.8	64396.85	42519.62	4238.044	-5098.87	176257	439448.4	11214.59	68233.8	64396.85	42519.62	12419.09	4238.044	-5098.8701	176257.027	439448.4
-0.2806	11.6059	198.5758	86.4837	9.055	152.8093		78051.44	59335.56	41232.48	9176.258	-5411.11	1633523	670317.8	11891.73	78051.44	59335.56	41232.48	9738.059	9176.258	-5411.1098	1633523.333	670317.8
-1.6621	10.4557	120.1873	87.0422	8.716	149.6503		55437.37	69181.29	43757.4	5237.751	-4876.54	1789284	495458.4	10730.91	55437.37	69181.29	43757.4	7414.996	5237.751	-4876.5427	1789284.314	495458.4
-0.0346	11.8626	133.8502	86.8302	7.7312	153.376		71659.25	62886.2	42156.86	3695.955	-5635.81	1763606	494672.3	12146.17	71659.25	62886.2	42156.86	10076.01	3695.955	-5635.8081	1763606.302	494672.3
-0.5124	12.5642	151.9083	87.7828	8.3142	153.8872		81289.58	59080.08	41165.31	3679.762	-5865.52	1727791	543019.3	12848.31	81289.58	59080.08	41165.31	10348.43	3679.762	-5865.2039	1727790.875	543019.3
1.0936	11.7952	153.3982	87.8677	9.1791	155.9715		72488.16	62888.57	42157.47	6141.503	-5250.69	1717133	528525.2	11542.03	72488.16	62888.57	42157.47	14026.9	6141.504	-5250.6896	1717132.709	528525.2
-0.0237	11.0507	163.249	88.2075	8.0219	145.669		73023.03	61098.19	41693.44	6252.39	-5152.58	1694610	582163.4	11335.56	73023.03	61098.19	41693.44	9429.108	6252.39	-5152.5779	1694610.42	582163.4
0.8047	10.5179	137.4971	87.4312	10.1857	138.5783		82815.31	53697.12	39728.17	610.6744	-4321.27	1724290	513692.9	9996.28	80468.8	54677.85	39993.26	9513.146	481.5301	-4222.9503	1740853.652	515559.9
0.2978	11.4398	143.7854	87.4505	8.901	146.3242		81436.6	56883.91	40584.16	1318.66	-5249.59	1737874	525812.6	11537.64	81436.6	56883.91	40584.16	8819.499	1318.66	-5249.5881	1737874.383	525812.6
0.2139	11.7131	204.8817	88.9043	9.0533	157.3131		64580.76	66946.09	43194.38	14547.48	-5461.06	1623373	685859.8	11999.04	64580.76	66946.09	43194.38	12546.64	14547.48	-5461.0613	1623372.949	685859.8
0.2348	11.6215	191.3555	86.7038	8.5896	143.3413		89774.5	52348.83	39361.2	19911.861	-5418.92	1646007	652228.3	11907.07	89774.5	52348.83	39361.2	6985.609	39361.2	-5418.9197	1646007.074	652228.3
0.8732	10.8585	148.2241	87.4287	7.0815	144.8194		79707.27	58009.94	40882.99	2596.287	-5063.44	1725950	540085.3	11142.8	79707.27	58009.94	40882.99	10982.78	2596.287	-5063.4361	1725952.696	540085.3
-0.9194	10.9403	121.2283	89.4694	9.3953	152.3308		57948.46	68985.14	43675.35	5333.132	-5104.32	1789055	460910.1	11241.62	57948.46	68985.14	43675.35	9490.715	5333.132	-5104.3182	1789054.745	460910.1
-1.6849	11.7296	113.5534	86.6317	10.5891	140.9914		66465.9	61965.74	42735.05	287.8302	-4513.75	1802561	441774.1	9964.618	66270.53	61459.75	41787.48	5162.375	287.8302	-4504.5978	1802389.776	441918.8
-0.2454	11.81																					

TABLE 5

10 BG Ethanol

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil prices draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Mandate	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	PS of Ethanol Producers	Government Revenue	CS of Fuel users	PS of gasoline producers	Tax Credit	Total ethanol demand	PS of Corn Growers	CS of Domestic Feeders	CS of Food users	CS of Corn Importers	PS of Ethanol Producers	Government Revenue	CS of Fuel users	PS of gasoline producers
0.7326	10.0118	164.5963	88.3657	8.3228	148.643		65921.94	64811.33	42651.31	7984.676	-4664	1686586	589251	10296.96	65821.94	64811.33	42651.31	13529.07	7984.676	-4664.0007	1686586.341	589251	
2.1876	11.5896	110.9485	89.1962	8.4241	148.1292		73347.53	61724.14	41856.14	305.8105	-4494.96	1809307	433567.7	9921.699	72865.02	61932.88	41910.29	17963.38	288.9329	-4474.6952	1809044.162	433885.5	
0.8128	12.855	157.4003	86.9152	7.447	155.6237		66087.7	65574.25	42871.49	811.13	-5107.3666	1706959	565905.2	11238.14	68577.42	65747.49	42871.49	11113.33	5107.3666	-5107.3666	1706959.968	565905.2	
0.2001	12.199	145.0257	86.8669	6.7341	152.8016		74711.66	61842.77	41886.92	574.0004	-5694.03	1704047	525328.38	12482.91	74711.66	61842.77	41886.92	10430.17	574.0004	-5694.0323	1704047.419	525328.38	
-0.1165	11.9344	168.6223	86.3845	7.1412	152.3559		72695.63	62289.57	42002.68	7808.016	-5567.74	1690249	591342.9	12219.2	72695.63	62289.57	42002.68	9588.968	7808.016	-5567.7392	1690249.492	591342.9	
-0.3412	12.1476	100.8139	86.382	9.9095	154.9344		64682.92	65469.52	42819.32	496.8608	-5061.27	1842080	397329	11216.96	64682.92	65469.52	42819.32	10074.56	496.8608	-5061.2661	1842079.695	397329	
-0.2026	11.4832	206.206	87.9724	7.1944	144.0861		77739.85	58739.46	41075.62	652.5842	-5196.02	1619602	690330	11769.3	77739.85	58739.46	41075.62	8030.315	9543.462	-5352.883	1619601.834	690330	
-1.6235	11.4818	135.9373	88.0388	9.1783	142.6131		74458.83	58784.68	41087.54	1470.524	-5327.84	1756305	502727.3	11702.32	74458.83	58784.68	41087.54	4484.626	1470.524	-5327.842	1756304.502	502727.3	
1.5241	10.4654	133.3456	87.9939	9.6155	149.4346		78845.16	58652.94	41052.82	1203.563	-4818.9752	1756686	499395	10619.71	78845.16	58652.94	41052.82	13772.3	1203.563	-4818.9757	1756686.116	499395	
-1.2277	11.2007	156.2198	86.6554	9.3293	152.5334		63297.8	65737.34	42887.54	8116.746	-5223.71	1710883	560925.4	11485.25	63297.8	65737.34	42887.54	7515.411	8116.746	-5223.7076	1710883.455	560925.4	
1.0167	11.3578	129.5103	87.3738	7.271	150.4097		77227.45	60286.98	41481.81	1537.439	-5289.8582	1770988	48053.7	11620.08	77227.45	60286.98	41481.81	12581.77	1537.439	-5289.8582	1770987.741	48053.7	
-0.0125	11.4365	172.6418	88.7259	7.9319	154.0151		61243.4	68297.58	43535.47	11631.41	-5333.29	1679390	604359.6	11721.53	61243.4	68297.58	43535.47	12295.47	11631.41	-5333.292	1679390.344	604359.6	
0.0362	11.1637	203.3431	86.1771	5.4001	137.8909		86162.49	53468.96	39666.28	5847.829	-5202.8	1622228	684782	11449.73	86162.49	53468.96	39666.28	6846.168	5847.829	-5202.7955	1622227.72	684782	
-0.5732	11.4063	160.829	85.4535	7.0759	142.5128		81663.49	55768.57	40286.33	2699.337	-5320.02	1702602	572672.3	11699.96	81663.49	55768.57	40286.33	6040.044	2699.337	-5320.0156	1702602.432	572672.3	
-0.0033	10.919	135.305	88.1107	8.212	142.005		70048.47	61499.31	41797.78	3077.437	-4659.76	1749008	508203.4	10300.31	70048.47	61499.31	41797.78	9844.834	3077.437	-4659.7592	1749007.636	508203.4	
-0.5825	11.7936	136.4009	87.0114	9.8695	150.9261		76217.36	59591.32	41299.62	1981.354	-5504.09	1757309	502680.3	12077.17	76217.36	59591.32	41299.62	7261.836	1981.354	-5504.0895	1757309.171	502680.3	
0.4185	12.2141	129.0959	87.8262	8.3871	136.4873		79045.57	58970.34	40313.59	163.7848	-4390.69	1762752	489022.6	11756.56	79045.57	58970.34	40313.59	9072.907	103.7848	-4390.6926	1762752.418	489022.6	
1.3368	11.7194	185.1742	85.6773	9.9262	151.5671		94775.08	51226.36	39053.4	2482.962	-5465.38	1657728	635872.9	12006.14	94775.08	51226.36	39053.4	9769.617	2482.962	-5465.3771	1657727.74	635872.9	
1.0652	11.8766	150.9342	86.9181	7.5291	143.8729		86100.37	54657.82	39987.87	823.7915	-5080.1	1720285	545754.7	11178.81	86100.37	54657.82	39987.87	10335	823.7915	-5080.102	1720284.508	545754.7	
-0.6454	11.0121	119.8838	87.5554	9.2299	145.7232		70438.65	61512.21	41801.11	1029.081	-5019.82	1791514	457412	11043.61	70438.65	61512.21	41801.11	7736.951	1029.081	-5019.8168	1791514.476	457412	
0.8171	11.5302	119.0381	87.395	8.5355	150.6366		73795.7	61301.38	41746.31	758.0229	-5030.26	1793745	434779.3	11065.61	73795.7	61301.38	41746.31	12310.34	758.0229	-5030.2613	1793744.591	434779.3	
-0.1882	10.6139	182.1387	88.4642	9.8389	139.6491		82247	54631.94	39980.89	4347.287	-4945.76	1656218	633273.6	10899.44	82247	54631.94	39980.89	6651.165	4347.287	-4945.7593	1656218.297	633273.6	
-1.2491	10.1179	115.4481	86.9297	9.7696	156.0806		73457.75	79226.81	46223.73	9437.079	-4718.15	1799566	446207.1	10401.06	73457.75	79226.81	46223.73	12198.02	9437.079	-4718.1546	1799566.355	446207.1	
1.1904	11.4395	227.8993	87.4184	9.2789	136.9052		85210.36	52598.94	39429.5	7705.178	-5309.3	1584804	743342	11726.14	85210.36	52598.94	39429.5	3757.799	7705.178	-5309.8994	1584804.188	743342	
-0.4081	10.7998	119.2489	88.0715	6.1808	144.6685		64285.53	65418.85	42806.41	3142.521	-4996.09	1792858	456668.1	10993	64285.53	65418.85	42806.41	9841.979	3142.521	-4996.0908	1792857.758	456668.1	
-0.3787	12.3968	174.0067	88.197	9.8785	150.0875		81582.95	57605.23	40775.8	5547.707	-5474.74	1681984	604563.2	12681.67	81582.95	57605.23	40775.8	7146.3	5547.707	-5474.7362	1681983.778	604563.2	
-0.5683	12.2448	95.8258	86.5727	7.5528	149.7471		61940.52	66443.81	43067.08	321.4282	-4878.62	1654422	382399.7	10737.23	61940.52	66443.81	43067.08	9714.387	321.4282	-4878.6215	1654421.793	382399.7	
1.1726	11.1849	124.7357	87.3595	6.5906	155.0477		86015.05	65392.84	42799.77	3904.17	-5219	1781668	404388.3	11468.3	86015.05	65392.84	42799.77	15487.356	3904.17	-5219.9587	1781667.94	404388.3	
1.2407	11.5218	142.2835	86.74	8.4964	152.3558		82930.25	57524.2	40754.31	1501.234	-5340.63	1742723	520713.4	11730.91	82930.25	57524.2	40754.31	12162.56	1501.234	-5340.6315	1742723.202	520713.4	
2.315	11.8505	151.1672	87.3087	9.8812	141.3526		91803.09	50462.86	38842.8	327.5677	-4309.87	1601182	552876.3	9590.989	91803.09	50462.86	38842.8	39112.51	13213.2	-4309.8782	1601181.742	552876.3	
0.6992	11.2029	215.9571	87.4064	7.1732	156.4927		63968.77	67196.27	43257.68	15308.04	-5220.42	1601750	715748.4	11489.34	63968.77	67196.27	43257.68	14457.66	15308.04	-5220.4168	1601753.531	715748.4	
-1.5558	11.9176	171.1464	88.2251	8.6019	151.7156		61866.99	67052.33	43221.27	11032.64	-5559.63	1685247	598153.2	12202.46	61866.99	67052.33	43221.27	7038.115	11032.64	-5559.6336	1685247.398	598153.2	
-1.9888	10.8495	189.1054	87.9574	8.8096	149.7502		53987.81	70140.14	43997.23	13944.05	-5056.03	1644976	650215.1	11135.18	53987.81	70140.14	43997.23	6827.448	13944.05	-5056.0327	1644976.32	650215.1	
0.4153	12.6366	226.5036	87.2455	8.9539	141.3683		102782.2	46480.45	37277.17	3261.43	-5894.01	1596157	732668.6	12922.9	102782.2	46480.45	37277.17	5443.607	3261.43	-5894.0136	1596156.579	732668.6	
-1.0069	10.2926	125.0549	86.2981	7.3949	146.2929		61778.62	65814.79	42907.25	5719.196	-4798.21	1744390	514766.7	10576.74	61778.62	65814.79	42907.25	8166.626	5719.196	-4798.2103	1744390.451	514766.7	
-0.3409	11.5986	139.1755	88.2902	9.9332	157.0267		64319.47	66460.32	43071.27	6537.476	-5412.24	1750057	511170.3	11882.48	64319.47	66460.32	43071.27	10451.19	6537.476	-5412.2399	1750056.552	511170.3	
-0.818	9.8462	176.6205	86.311	7.9841	144.678		63920.13	64282.99	42516.06	8735.723	-4855.26	1663762	619665.5	10131.76	63920.13	64282.99	42516.06	8990.577	8735.723	-4855.2644	1663762.029	619665.5	
-0.8133	11.623	199.0813	88.7814	9.56	153.1997		63853.58	66300.89	43030.81	13488.41	-5419.11	1632569	671802.4	11908.86	63853.58	66300.89	43030.81	8906.636	13488.41	-5419.1131	1632568.846	671802.4	
-1.0276	11.7863	150.5449	85.9474	6.4679	155.8144		59438.56	68764.48	43652.83	9445.907	-5497.51	1726217	542598.2	12070.49	59438.56	68764.48	43652.83	9120.492	9445.907	-5497.5132	1726217.42	542598.2	
-0.2799	12.2894	136.3422	87.1707	8.4783	150.7198		78948.12	59161.47	41186.72	1632.254	-5705.1	1699584	500412.4	12510.94	78948.12	59161.47	41186.72	7856.916	1632.254	-5705.9988	1699583.754	500412.4	
1.0747	10.6785	167.7332	87.7436	9.0801	147.9105		66719.89	59560.43	41236.98	5576.832	-4977.72	1684658	594276.8	10964.57	66719.89	59560.43	41236.98	11163.36	5576.832	-4977.7239	1684658.367	594276.8	
-1.8117	11.6529	137.6288	87.864	8.5963	153.4456		65275.02	68746.19	43988.81	1827.896	-5437.91	1654946	506768.9										

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

Export shock draws	Ethanol capacity draws	Crude oil price draws	Corn acreage draws	Corn nonharvested acres draws	Corn yield draws	Tax Credit & Tariff	Corn price	Ethanol price	Gas price	Corn Production	Corn feed demand	Corn food demand	Corn export demand	Corn ethanol demand	Corn storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price
0.4205	10.4929	184.1007	87.1205	8.0139	147.1587		6.2029	3.2123	4.0442	11641.22	5156.028	1340.633	2093.978	3815.586	833	10492.86	285.6586	1	110969.6	137648.1	10778.52	126869.6	134178.5	3.979
0.9381	11.7229	88.6054	86.2746	6.9964	144.878		5.5523	2.2614	2.427	11485.67	5297.004	1354.635	2389.721	3168.903	873.4023	8580.315	566.1138	0.7319	120591.3	145637.7	9146.428	136491.3	142693.5	2.4166
0.0586	12.6522	147.3847	87.5053	8.7415	149.5992		7.1566	2.7852	3.4146	11783.02	4949.395	1320.109	1787.413	4491.099	833	12341.58	283.9868	0.9754	112099.2	141624.7	12625.56	128999.2	137560.6	3.5865
0.5926	11.2758	179.2153	87.6983	6.1548	153.5186		5.1513	3.1422	3.9409	12518.44	5383.895	1363.265	2359.395	4100.292	909.5924	11275.81	285.3045	1	111010	138471.1	11561.11	126910	134749.6	3.8743
-0.1064	11.8679	132.3988	87.3343	7.2871	145.4265		6.6599	2.6367	3.1954	11640.99	5057.018	1330.799	1833.965	4184.207	833	11495.19	283.6117	0.9686	114813.0	142492.7	11778.8	130713.9	138701.1	3.1492
-1.1974	10.5843	187.2439	87.6272	8.7215	143.8115		5.8072	3.2396	4.0845	11347.55	5241.776	1349.149	1655.388	3848.837	850.3995	10584.3	285.7353	1	110697.1	137467.1	10870.04	126597.1	133968	4.0177
-0.1128	12.123	161.9905	87.5121	7.2125	150.3663		6.1778	2.946	3.6516	12074.36	5161.485	1341.175	1928.351	4408.351	833	12122.97	284.5376	1	111989.5	140297	12407.5	127889.5	136303	3.5892
0.8821	10.7621	138.6308	85.5072	8.0096	140.4691		7.4034	2.8081	3.3729	10886.02	4895.939	1314.8	2001.597	3438.683	833	9401.188	383.7073	0.8735	115160.7	140845.6	9784.896	131060.7	137695.9	3.3336
0.1004	11.4951	161.9156	86.7282	6.5129	144.2727		6.9568	2.9623	3.6757	11572.89	4992.69	1324.409	1840.759	4180.03	833	11495.08	284.6805	1	112271.3	139951.1	11779.77	128171.3	136159.2	3.6156
0.6591	10.5443	137.1664	87.5935	8.1372	151.8483		5.5456	2.7153	3.3112	12065.3	5298.444	1354.778	2301.773	3834.306	874.002	10544.34	283.9922	1	114823.9	141552.3	10828.33	130723.9	138066.6	3.2656
-1.5781	10.8322	193.7777	87.2955	8.4999	147.5539		5.2192	3.2933	4.1637	11626.59	5369.183	1361.804	1651.166	3938.975	903.4647	10832.19	285.8741	1	110117.6	137135.7	11118.06	126017.6	133566.8	4.0931
-0.1779	11.9793	108.3127	85.7744	7.9433	146.1228		5.905	2.3739	2.8077	11372.9	5220.589	1347.045	1962.08	3599.613	841.5752	9807.077	282.9338	0.8187	117985.7	143975.7	10090.01	130885.7	140727.7	2.7773
-1.6628	11.0859	133.4481	87.8418	7.8169	154.3716		3.9668	2.6588	3.2279	12353.57	5640.536	1388.755	1874.558	4031.235	1016.483	11085.9	283.7357	1	114910.2	142179.9	11369.64	130810.2	138520	3.1824
-1.8458	10.7201	161.3027	87.2163	7.5097	143.3198		5.3642	2.977	3.6972	11423.53	5337.751	1358.682	1536.504	3898.224	900.3734	10720.12	284.8402	1	112661.5	139566.4	11004.96	128561.5	136023.9	3.6404
0.9396	10.3133	180.4966	87.4764	7.8564	149.2045		5.9079	3.1826	4.0004	11879.67	5219.962	1346.983	2319.108	3750.301	841.3143	10313.33	285.5875	1	111317.6	137816.5	10598.92	127217.6	134404.7	3.9375
0.0559	11.7042	138.6724	88.2509	5.9736	155.283		4.6332	2.7041	3.2949	12776.27	5496.148	1374.414	2291.27	4256.088	956.3445	11704.25	283.8062	1	114149.8	142037.9	11988.05	130049.8	138178.9	3.245
-0.0763	11.3812	178.8065	86.8273	6.7836	158.9597		4.4303	3.1352	3.9306	12723.72	5540.112	1378.781	2289.544	4138.629	974.6568	11381.23	285.2653	1	110996.5	138563	11666.49	126896.5	134807.5	3.8636
-0.5423	11.5704	119.2476	86.241	7.7065	140.3256		6.3913	2.516	3.0172	11020.4	5115.225	1336.58	1748.208	3585.386	833	9785.525	283.4163	0.8457	116885.2	142854.1	10068.94	132785.2	139612.9	2.9819
-1.3323	11.6218	129.7744	87.6218	9.923	141.9058		6.6647	2.6204	3.1713	11025.92	5055.982	1330.696	1440.728	3963.514	833	10872.79	283.6351	0.9356	115350.7	142407.1	11156.42	131250.7	138815.8	3.1281
1.9283	11.567	121.4004	86.8713	8.1153	144.4881		6.8717	2.6388	3.071	11379.32	5011.139	1326.242	2442.738	3364.198	833	9148.343	451.8782	0.7909	116875.9	142376.2	9600.221	132775.9	139285.8	3.0419
0.2748	10.3779	113.1595	88.3681	8.1709	140.12		6.1976	2.479	2.9093	11237.24	5157.186	1340.748	2048.404	3455.9	833	9469.076	353.8153	0.9124	117608.3	143331.2	9822.891	133508.3	140169.2	2.8798
-0.9146	11.7952	136.6938	87.204	9.3888	155.4165		5.3996	2.6792	3.2582	12093.77	5330.086	1357.921	1827.398	4289.18	887.1808	11795.25	283.7134	1	114284.2	142263.1	12078.96	130184.2	138374.9	3.209
-0.5674	10.9072	141.1372	85.6069	8.9301	139.1345		7.2513	2.7767	3.4017	10668.39	4928.889	1318.073	1568.161	3618.266	833	9911.998	284.2809	0.9088	114757.2	140853.5	10196.28	130657.2	137571.3	3.3565
0.4177	10.9833	129.3493	86.0144	8.8354	143.4097		6.8522	2.6541	3.2052	11068.22	5015.354	1326.66	1963.226	3527.984	833	9648.127	304.6123	0.8784	115957.8	141810.6	9952.739	131857.8	138606.8	3.1665
0.4047	12.5617	125.6265	88.0536	7.8707	151.4888		6.3525	2.543	3.0573	12146.8	5123.625	1337.414	2058.998	4391.767	833	12061.2	283.2369	0.9602	115172.3	143416.8	12344.44	131072.3	139443.1	3.013
-0.2285	11.0577	142.6716	88.8789	6.7889	143.9089		5.838	2.7655	3.3854	11813.48	5235.107	1348.487	1959.278	4020.985	847.6221	11057.72	284.0923	1	114094	141335.8	11341.81	129994	137684.9	3.3356
0.1694	11.3814	129.5192	86.5095	9.8095	152.3783		6.5049	2.6053	3.1491	11687.42	5090.601	1334.134	1953.223	4074.457	833	11200.06	283.545	0.9841	115252.9	142636.5	11483.61	131152.9	138940	3.1054
-0.586	11.5831	83.5296	86.8304	8.0267	142.9372		5.1635	2.1568	2.3131	11263.97	5381.247	1363.002	1979.784	3229.452	908.4894	8760.18	512.4806	0.7563	121124	146296.7	9272.66	1317024	143311.8	2.3031
-2.3567	10.9524	98.6333	86.945	6.2972	148.0494		4.2376	2.2204	3.1514	11939.86	5581.861	1382.928	1598.344	3982.678	992.045	10952.37	282.3001	1	118428.8	145563.5	11234.67	134328.8	141947	2.5536
-0.0861	10.5654	131.9535	86.9479	8.189	143.9452		6.6711	2.6513	2.2619	11336.95	5054.601	1330.559	1838.221	3878.573	833	10660.89	383.7643	0.9821	115247.9	142092.6	10944.65	131147.9	138569.5	3.1733
-0.158	11.0025	134.9865	87.2928	7.2296	158.6886		4.1553	2.6788	3.2574	12705.12	5599.679	1384.697	2318.388	4000.893	999.4662	11002.46	283.8123	1	114808.7	141995	11286.27	130708.7	138361.9	3.2114
-1.278	11.9062	162.6162	88.4164	8.9866	146.2129		6.1754	2.5351	3.0455	11613.66	5161.995	1341.225	1555.947	4319.497	833	11878.17	283.2328	0.9976	115355.1	143416.5	12161.41	131255.1	139501.8	3.0023
-0.7192	11.6351	108.1808	87.9066	9.2788	140.2044		6.0289	2.4082	2.8122	11023.97	5193.746	1344.379	1764.072	3486.77	833	9498.161	343.8582	0.8163	118114.6	143856.6	9842.02	134014.6	140688.5	2.7845
-0.5253	10.7566	174.9263	87.8211	6.8496	155.9351		4.444	3.115	3.9008	12345.61	5537.13	1378.485	2143.088	3911.491	973.4148	10756.6	285.2938	1	111559	138500.9	11041.89	127459	134946.5	3.8381
-0.4627	12.0527	138.544	88.7571	7.8379	154.4668		5.0829	2.6941	3.2801	12499.33	5398.7	1364.736	2035.34	4382.799	915.7585	12052.71	283.7289	1	113999.5	142235.9	12336.44	129899.5	138264.8	3.2922
0.2562	11.5036	151.698	87.0557	8.8348	155.6202		5.7585	2.8538	3.1556	12172.74	5252.332	1350.198	2130.281	4183.134	854.7963	11503.62	284.3232	1	113112.5	140800.5	11787.94	129012.5	137005.9	3.4602
0.8817	11.5129	168.6742	87.9342	7.6403	148.3573		6.768	3.031	3.777	11912.17	5033.635	1328.476	1186.497	833	11512.87	284.9034	1	111723.6	139421.3	11977.77	127623.6	135623.6	3.7139	
0.6659	10.6817	183.7202	86.7912	7.2524	154.9254		5.1575	3.2031	4.0306	12322.58	5382.55	1363.132	2381.605	3884.265	909.0322	10681.73	285.5982	1	110919.4	137786.7	10967.33	126819.4	134256.4	3.9648
0.3269	11.1697	154.4575	87.7166	9.7981	155.6362		5.5894	2.895	3.5763	11216.93	5288.956	1353.835	2186.735	4025.358	870.0511	1069.74	284.5187	1	113074.6	140328.8	11354.26	12897.64	136673.9	3.5212
0.4149	11.728	181.9227	85.9622	7.2335	154.458		6.0393	3.1552	3.9601	12160.28	5191.491	1344.155	2124.898	4264.734	833	11728.02	285.2775	1	110616	138529.3	12013.3	126516	134662.2	3.8903
1.0977	11.52	115.5109	87.5287	7.8868	157.1896		5.6243	2.4306	2.8915	12518.87	5281.397</													

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

-0.7228	11.6252	139.9227	86.4685	8.2223	154.0198	5.4788	2.7203	3.3187	12051.47	5312.934	1356.217	1872.952	4227.328	880.0369	11625.15	283.8693	1	114075.5	141884.5	11909.02	129975.5	138051	3.2685
0.536	12.3291	107.2361	86.7167	7.9744	137.8614	6.5951	2.5446	2.8123	10855.52	5071.072	1332.195	2052.496	3164.753	833	8543.133	609.6451	0.6929	118523.5	143576.3	9152.778	134423.5	140630	2.7952
0.3677	11.1949	138.1288	86.1719	8.6455	154.2796	6.0178	2.7104	3.3041	11960.74	5196.144	1344.617	2114.095	4070.885	833	1194.94	283.8924	1	114434.8	141813.6	11478.83	130334.8	138118.6	3.2561
-0.9274	11.1284	152.103	87.996	9.2495	153.5578	4.9361	2.868	3.5365	12092.14	5430.511	1367.895	1916.021	4046.704	920.008	11128.44	284.4215	1	113246.8	140559.7	11412.86	129146.8	136885.9	3.4823
-1.8683	11.8209	130.6742	86.1098	8.8207	154.5042	5.1279	2.6086	3.1541	11941.49	5388.946	1363.767	1576.562	4298.521	911.6958	11820.93	283.4797	1	114818.4	142822.8	12501.41	130718.4	138926.4	3.1078
-2.0398	12.2273	142.5815	87.1239	8.0172	151.1432	5.2754	2.7352	3.3407	11956.44	5356.992	1360.593	1492.185	4446.284	898.387	12227.28	283.8397	1	113564.5	141975.6	12151.12	129464.5	137948.2	3.2873
-0.5594	12.7415	125.8678	87.4031	7.6491	153.879	5.9277	2.5302	3.0384	12272.46	5215.665	1346.556	1835.458	4633.26	839.5244	12741.47	283.1148	1	114823.7	143748.3	13024.58	130723.7	139556.6	2.9924
0.2303	11.322	112.7991	88.1998	8.7576	157.1068	5.0346	2.4005	2.847	12480.91	5409.16	1365.774	2266.781	4117.076	920.1151	13121.96	282.8557	1	116774.5	144279.3	11604.82	131064.2	140554.7	2.8111
0.6123	12.1807	64.7575	86.9797	7.659	144.9062	4.6302	1.9929	1.8984	11494.07	5496.787	1374.478	2469.884	2794.305	956.6116	7494.624	740.3003	0.6153	124004.9	148139.8	8234.925	139904.9	145489	1.9036
-0.5563	11.4487	219.2284	86.5063	8.5677	152.0957	5.8316	3.4974	4.4648	11854.13	5236.492	1348.625	1855.669	4163.15	848.199	11448.67	286.4447	1	108129.2	135764.3	11735.11	124029.2	131986.8	4.3812
1.4488	11.2595	171.2181	86.5731	7.4154	157.3198	5.7821	3.0638	3.8252	12453.08	5247.203	1349.688	2507.173	4094.356	852.6602	11259.48	285.0485	1	111633	139077.5	11544.53	127533	135363.3	3.762
0.8947	12.779	154.1923	86.9209	6.5575	156.5215	6.3072	2.847	3.5056	12578.6	5133.439	1338.389	2224.869	4646.906	833	12778.99	284.1266	1	112332.3	141295.4	13063.12	128232	137090.4	3.4447
1.6265	10.96	131.1984	87.814	7.6204	152.7272	6.0872	2.6353	3.1932	12247.74	5181.116	1343.124	2503.058	3985.441	833	10959.97	283.6736	1	115176.9	142320.6	11243.65	131076.9	138701.3	3.1492
0.7078	10.3445	173.523	87.1662	9.4358	140.0994	8.004	3.1128	3.8974	10889.98	4765.79	1301.873	1825.687	3761.627	833	10344.47	285.3487	1	111844.1	138373.9	10629.82	127744.1	134952.1	3.8371
-1.5732	12.6607	149.685	87.2806	10.0682	154.8862	5.8511	2.8019	3.4392	11959.14	5232.257	1348.204	1526.339	4603.907	846.4349	12660.74	283.9981	1	112760	141604.7	12944.74	128660	137437.8	3.381
-0.3565	11.1216	142.3771	87.5774	7.2412	144.2941	6.2695	2.7606	3.3781	11592.04	5141.599	1339.199	1832.005	4044.232	833	11121.64	284.0676	1	114090.6	141396.4	11405.71	129990.6	137724.9	3.3283
-0.5879	10.634	168.9888	87.0911	8.7715	145.8524	6.0814	3.0588	3.1718	11423.1	5182.355	1343.247	1795.585	3866.91	833	10634	285.125	1	112078.1	138897.2	10919.13	127978.1	135382.4	3.7581
-0.7231	11.4905	144.3824	87.9371	9.0057	148.3169	6.0459	2.7738	3.3976	11706.86	5190.049	1344.012	1759.438	4178.364	833	11490.5	284.0624	1	113745.8	141420.3	11774.57	129645.8	137630.1	3.3457
-0.921	12.5253	175.1141	87.09	7.0436	145.8723	6.8293	3.0663	3.2991	11676.55	5020.313	1327.153	1539.419	4554.661	833	12525.32	284.8682	1	110790.7	139500.9	12810.19	126690.7	135377.3	3.7591
0.9418	11.1862	135.6771	88.8391	7.5501	139.311	7.018	2.786	3.1014	11324.45	4979.426	1323.092	2097.762	3689.173	833	10103.17	284.0268	0.9032	115165.4	141452.6	10387.2	131065.4	138109	3.2578
1.2472	11.097	88.0516	85.0446	7.7758	152.3533	5.3529	2.2157	2.4033	11077.12	5340.212	1358.926	2528.527	3251.095	891.3983	8844.537	498.9821	0.797	120560.1	145803.6	9343.519	136460.1	142795.9	2.3978
-0.2457	11.4721	104.6032	87.0698	8.4886	140.9055	6.0257	2.4046	2.7471	11072.53	5194.436	1344.447	1916.243	3382.4	833	9205.155	422.896	0.8024	118588.3	144116.4	9628.051	134488.3	141017.1	2.7242
0.6865	10.3514	163.6774	87.5827	8.3446	144.0718	6.7938	3.0119	3.7486	11415.98	5028	1327.916	2060.903	3764.157	833	10351.43	285.01	1	112628.6	139165.1	10636.44	128528.6	135741.2	3.6923
0.8899	12.2557	116.3771	88.426	5.6802	152.8848	5.7528	2.4255	2.8841	12650.58	5253.555	1350.319	2334.204	4455.195	855.3056	12251.75	282.8339	0.9997	115963.1	144397.7	12534.58	131863.1	140362.8	2.8443
-0.1019	12.0566	97.2338	87.0938	8.8514	153.3385	5.2745	2.2084	2.5638	11997.58	5357.195	1360.613	2112.499	3866.797	898.4716	10573.81	282.2982	0.877	118774.5	145530.6	10856.11	134674.5	142036	2.5372
-0.9875	10.5968	176.5807	86.8887	8.8797	150.6446	5.1782	3.136	3.9317	11751.63	5378.06	1362.686	1848.353	3853.366	907.1621	10596.76	285.3879	1	111498.8	138280.9	10882.15	127398.8	134778	3.8691
-1.2685	10.1735	100.6166	86.3371	8.0762	150.3394	4.6902	2.2628	2.6439	11765.71	5483.797	1373.188	1856.061	3699.46	951.2015	10173.52	282.5207	1	118614.5	144970.5	10456.04	134514.4	141604.7	2.6164
-1.0104	10.16743	114.7827	86.5689	9.3689	140.1272	6.3187	2.4894	2.9389	10817.82	5130.954	1338.142	1612.943	3500.778	833	9536.678	334.9596	0.8169	117421.8	143193.4	9871.638	133321.8	140015.7	2.908
1.1385	10.8996	174.4046	86.0366	8.3728	156.0062	5.9844	3.1058	3.8871	12116.02	5203.374	1345.335	2367.429	3963.479	834.4052	10899.57	285.2414	1	111538.6	138623.4	11184.81	127438.6	135023	3.8241
-0.1739	11.2588	167.0214	86.8099	7.4964	151.1944	5.6721	3.0214	3.7627	11991.76	5271.051	1352.057	2009.943	4094.119	862.5926	11258.83	284.9088	1	111964.4	139408.2	11543.74	127864.4	135692.3	3.7013
0.9588	10.1349	152.8599	86.9463	10.4154	143.9439	7.5636	2.9075	3.5947	11016.16	4861.231	1311.352	1994.12	3614.456	833	9934.273	284.7191	0.9802	113717.4	139836.4	10218.99	129617.4	135646.9	3.5445
2.0953	10.6028	137.7163	86.6277	8.7186	155.7408	6.3935	2.7202	3.3185	12133.63	5114.752	1336.533	2591.791	3855.554	833	10602.78	284.0012	1	114746.9	141533.7	10886.78	130646.9	138029.2	3.2725
1.3525	11.7842	103.3632	89.0969	8.5451	155.4922	5.4739	2.2822	2.6725	12525.17	5313.991	1356.322	2538.016	4034.363	880.4773	11069.17	282.4922	0.9393	117867.6	145119.3	11351.66	133767.6	141465.2	2.642
1.4813	11.7813	192.7484	87.1955	6.6843	145.4738	7.8847	3.2551	4.1074	11712.22	4791.647	1304.441	2097.083	4284.103	833	11781.28	285.5954	1	109800.3	137770.1	12066.88	125703.3	133885.7	4.0328
0.1676	12.7702	158.5488	87.5983	8.8686	145.4738	7.8244	2.9315	3.6301	11176.3	4804.715	1305.739	1688.757	4142.089	833	11333.52	284.6021	0.8875	112617.3	140135.5	11618.12	128517.3	136395.6	3.5722
-0.3706	12.0919	126.6569	88.4879	8.3423	155.5032	5.2346	2.5546	3.0744	12462.89	5365.832	1361.471	2034.481	4397.034	902.609	12091.85	283.2711	1	115061.4	143336.5	12375.12	130961.4	139352.9	3.0296
-1.4267	11.5194	154.7466	87.8617	8.8768	147.8173	5.1321	2.8862	3.5634	11970.96	5388.047	1363.677	1717.047	4188.87	911.3214	11519.4	284.4272	1	112849.7	140553.5	11803.82	128749.7	136753.8	3.5065
1.0802	12.0155	182.6314	87.0937	7.5417	153.3353	6.6774	3.1535	3.9577	12198.12	5053.236	1330.423	2210.176	4369.283	833	12015.53	285.2277	1	110442.7	138643.5	12300.76	126342.7	134683.8	3.8863
-0.3211	11.0911	93.62	87.5698	6.9092	139.2693	5.5467	2.2727	2.5254	11233.53	5298.271	1354.761	1987.96	3316.613	873.9297	9033.52	458.2689	0.8145	119854	145245.8	9491.789	135754	142190.3	2.5089
0.7697	12.2882	144.6735	88.409	9.365	154.0767	6.7209	2.7628	3.3722	112178.84	5043.8	1329.486	2102.109	4468.443	833	12288.22	283.9189	1	113355.5	141827.6	12572.12	129255.5	137780.7	3.3181
-1.1006	11.8839	120.3435	86.3149	8.5039	147.6919	6.1859	2.494	2.985	11492.06	5159.719	1340.999	1610.637	4145.702	833	11384.36	283.1564	0.958	116001.6	143569.2	11667.51	131901.6	139813.4	2.9451
0.8721	11.3204	155.2496	86.8591	6.8709	137.6998	7.7829	2.9256	3.6214	11014.35	4813.715	1306.633	1922.49	3736.513	833	10233.26	284.738	0.904	113380.6	139798.6	10518			

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

1.283	11.2772	107.3872	85.1482	8.1652	145.3028	6.4707	2.5231	2.8123	11185.84	5098.023	1334.871	2316.438	3201.511	833	8693.613	567.7678	0.7709	118458.4	143619.7	9261.381	134358.4	140638.5	2.7937
0.6315	12.2729	99.0236	88.3438	8.5922	155.8379	5.2942	2.2217	2.5834	12428.31	5352.923	1360.189	2343.237	4073.273	896.6925	11158.73	282.2837	0.9092	118281.1	145622.1	11441.02	134181.1	141939.3	2.585
-0.3606	11.0815	152.4376	87.1357	9.3982	144.7653	7.0055	2.8729	3.5437	11253.69	4982.15	1323.362	1683.526	4029.649	833	11081.53	284.444	1	113239.6	140505.5	11365.98	129139.6	136846.8	3.4894
1.0443	12.5395	146.3502	86.7928	6.78	153.187	6.9417	2.7692	3.3909	12256.91	4995.963	1324.734	2145.83	4555.383	833	12527.15	283.9103	0.999	113102.7	141813.8	12811.06	129002.7	137689.9	3.3347
0.4131	10.4634	146.2489	86.5897	7.0241	139.8582	7.2415	2.824	3.4715	11127.91	4931.006	1318.283	1883.874	3759.744	833	10336.22	284.3831	0.9878	114109.1	140629.7	10620.6	130009.1	137121	3.4226
0.2075	11.5901	104.342	87.4853	6.5537	151.3757	5.4444	2.2906	2.685	12251.07	5320.37	1356.956	2177.521	4111.089	883.1339	11296.99	282.4968	0.9747	117650	145129.5	11579.49	133550	141402.1	2.6536
-0.2606	12.3264	118.7572	87.2121	8.6766	141.9448	5.9669	2.508	3.0055	11147.7	5113.999	1336.458	1837.209	3625.305	833	9864.023	283.3803	0.8002	116895.7	142943.1	10147.4	132795.7	139676.6	2.9702
-0.5251	11.9126	137.6646	86.7793	7.0764	153.1255	6.3066	2.6875	3.2704	12204.55	5306.914	1355.619	1930.645	4331.844	877.5296	11912.57	283.7253	1	114142.8	142239.1	12196.3	130042.8	138313.1	3.2204
0.433	12.6576	138.2536	87.1441	7.1942	151.3844	6.7738	2.6814	3.2614	12103.17	5032.333	1328.347	1983.804	4523.681	833	12434.19	283.6392	0.9824	113847.9	142465.7	12717.83	129747.9	138371.9	3.2096
-0.6896	12.562	117.5464	87.0082	7.3613	148.8754	6.0512	2.4488	2.9183	11857.46	5188.912	1343.899	1769.105	4320.546	833	11856.93	282.954	0.9439	116042.7	144082.6	12139.89	131942.7	140174.8	2.8788
-0.3305	12.7666	178.4692	87.5352	7.066	155.2065	5.6732	3.0918	3.8668	12489.34	5270.815	1352.034	1959.614	4642.386	862.4943	12766.56	284.9141	1	110435.7	139387.1	13051.48	126335.7	135185.9	3.7942
-1.9288	10.945	158.4649	89.8798	10.7326	149.5529	4.6868	2.941	3.6442	11836.69	5484.526	1373.265	1645.416	3979.981	951.5049	10944.95	284.6887	1	112796.1	139925.7	11229.64	128696.1	136310.8	3.5878
-0.3614	11.1893	174.8822	86.491	10.0214	137.198	8.3823	3.1183	3.9056	10491.49	4683.837	1293.733	1407.892	3871.026	833	10626.16	285.3245	0.9497	111617.9	138429.4	10911.48	127517.9	134917	3.8435
0.4204	10.4121	116.0247	88.1265	7.2734	154.5309	4.4983	2.4613	2.9366	12494.3	5525.379	1377.318	2434.865	3786.223	968.5204	10412.11	283.1599	1	116900.1	143495.1	10695.27	132800.1	140052.6	2.9012
0.1107	11.7095	144.7286	87.3422	8.5006	145.3785	7.1447	2.78	3.4068	11461.88	4951.975	1320.365	1806.477	4148.063	833	11398.03	284.0951	0.9734	113757.9	141340.1	11682.13	129657.9	137579.6	3.355
-0.8253	10.2131	181.0644	87.0996	5.4999	157.5966	2.9152	3.1911	4.0129	12859.83	5868.373	1411.385	2352.848	3713.85	1111.377	10213.09	285.6315	1	111316.4	137715.1	10498.72	127216.4	134335.5	3.9502
-0.4306	10.8693	216.5391	87.2243	9.0988	148.745	5.9506	3.4936	4.4591	11620.78	5210.697	1346.063	1872.097	3952.466	837.4554	10869.29	285.5326	1	108530.0	135586.5	11155.82	124430.7	131995.4	4.3796
-0.9607	11.7453	130.0714	86.5257	9.3387	149.2049	6.4558	2.6051	3.1489	11516.68	5101.243	1335.191	1601.424	4243.821	833	11668.93	283.4869	0.9935	114945.9	142798.3	11952.42	130845.9	138950.9	3.1034
-0.0021	9.7976	144.1314	86.7689	7.7988	154.9916	4.3014	2.8138	3.4564	12239.7	5568.033	1381.554	2339.064	3562.763	986.2858	9797.603	284.4213	1	114541.6	140523.6	10082.02	130441.6	137278.2	3.4103
1.3621	11.1569	182.1609	88.1671	8.3411	149.8916	6.7021	3.1742	3.998	11965.26	5047.875	1328.891	2295.445	4057.05	833	11156.89	285.4282	1	110837.8	138180.1	11442.32	126737.8	134496.8	3.9206
0.2476	11.2309	162.6638	86.6526	6.4905	146.4785	6.2674	2.5314	3.0401	11742.02	5142.063	1339.246	2029.747	3999.969	833	10993.32	283.3258	0.9788	115967	143143.7	11276.64	131867	139513.7	3.0001
-0.0838	11.998	152.8788	86.1725	8.9138	143.105	7.6065	2.8803	3.5546	11056.11	4851.922	1310.428	1651.867	4006.893	833	10980.85	284.4824	0.916	113247.3	140412.7	11265.34	129147.3	136786.4	3.5005
-0.5719	12.5549	128.1888	87.9136	8.9166	150.5094	6.3985	2.5685	3.095	11889.79	5113.649	1336.423	1377.288	4467.433	833	12277.66	283.2938	0.9779	114830.5	143291.5	12690.95	130730.5	139248.1	3.0488
0.7302	12.3482	155.6898	87.2078	8.4087	154.0239	6.875	2.8742	3.5458	12136.94	5018.546	1326.978	2066.159	4490.263	833	12348.23	284.2735	1	112401.7	140934.2	12632.51	128703.1	136867.8	3.4856
1.5138	11.8509	110.5528	87.2949	9.2285	152.3028	5.9946	2.402	2.8491	11889.74	5201.175	1345.117	2485.495	3622.467	833.4895	9879.045	283.0206	0.8336	117717.9	143779.9	10162.07	133617.9	140508.8	2.8175
1.5355	12.9294	125.5437	87.9026	8.0435	149.882	5.961	2.5711	3.0986	11969.45	5070.834	1332.171	2372.128	3959.317	833	10798.81	283.4805	0.8352	115784.9	142767.2	11082.29	131684.9	139199.8	3.0577
-1.255	12.3958	199.9793	88.5056	6.8491	151.5915	5.068	3.298	4.1708	12378.43	5401.925	1365.056	1784.787	4507.559	917.1018	12395.8	285.6358	1	109072.5	137653.9	12613.43	124972.5	133571.8	4.0904
-2.2485	11.7306	120.7585	87.6263	9.3528	150.4544	5.1476	2.4914	2.9811	11776.59	5384.686	1363.344	1450.967	909.9216	907.9012	11730.59	283.1075	1	115793.6	143707.3	12013.7	131693.6	139840.1	2.9402
-0.1086	10.4394	128.3739	87.8271	7.6817	156.2603	4.1414	2.6137	3.1615	12523.55	5602.702	1384.998	2336.985	3796.143	1000.725	10439.4	283.6664	1	115687.8	142310.9	10723.06	131587.8	138859.1	3.1202
2.3225	10.9167	126.5435	87.107	10.7117	141.2166	7.7238	2.8679	3.1853	10788.28	4826.52	1307.905	2398.446	3020.411	833	8189.443	747.9106	0.7502	116653.3	141490.7	8937.354	132553.3	138613.7	3.1652
1.6659	12.1288	116.3601	86.4868	6.7377	151.562	6.1836	2.4629	2.939	12086.92	5160.215	1341.048	2496.353	3854.309	833	10534.33	283.1513	0.8685	116806.8	143524.3	10817.48	132706.8	140042.1	2.9031
-0.1715	12.213	153.6939	86.4239	9.5148	149.6006	7.3751	2.8609	3.5262	11505.65	4902.669	1315.409	1670.115	4383.06	833	12049.36	284.2717	0.9866	112700.4	140934	12333.63	128600.4	136963.8	3.468
0.5531	11.7023	225.2612	87.0462	8.5568	145.3969	6.8263	3.5889	4.5261	11412.11	4804.307	1305.699	1811.731	4255.37	833	11702.27	286.5362	1	107643.7	135532.5	11988.81	123543.7	131673.3	4.4387
0.4985	11.1954	98.9233	88.6866	9.0363	154.5472	5.2068	2.218	2.5779	12302.56	5371.858	1362.069	2318.168	3943.89	904.5786	10834.62	282.304	0.9678	118525.8	145542.7	11116.92	134425.8	141964.2	2.5504
1.0644	12.691	234.7447	87.5873	8.1663	143.416	9.067	3.5816	4.589	11390.24	4534.824	1278.933	1726.594	4614.892	833	12690.96	286.499	1	106679.8	135557.2	12977.46	122579.8	131379.8	4.4926
-0.0976	11.6519	113.7037	87.4476	7.5395	154.68	5.2915	2.4049	2.8536	12360.19	5353.504	1360.246	2110.463	4237.044	896.9342	11651.87	282.8337	1	116521.2	144355.9	11934.71	132421.2	140514.1	2.8165
0.6624	10.025	117.594	86.5395	6.8076	144.403	6.1302	2.4939	2.9946	11513.54	5171.783	1342.197	2185.917	3578.639	833	9836.159	283.3358	0.9812	117025.1	143004.6	10119.49	132925.1	139877.1	2.9499
-0.6107	10.6396	143.4223	89.2113	8.8316	147.7249	5.2041	2.7845	3.4133	11874.08	5372.44	1362.127	1963.735	3868.958	904.8211	10639.64	284.2106	1	114219.4	141043.3	10923.85	130119.4	137526.9	3.3646
0.1115	10.8629	134.4975	88.4339	9.0686	147.6086	6.0991	2.6764	3.2539	11722.38	5178.524	1342.867	2015.851	3950.143	833	10862.89	283.8223	1	114918.7	141965.4	11146.72	130818.7	138377.3	3.2086
1.1395	12.6412	153.6627	87.4667	9.4927	148.0269	7.6419	2.8812	3.565	11542.28	4844.248	1309.666	2036.25	4117.118	833	11267.68	284.4458	0.8913	113052.9	140505	11552.12	128952.9	136786.4	3.5005
0.842	12.1118	134.2693	85.5127	9.0081	148.516	7.0058	2.6887	3.2719	11362.15	4982.072	1323.355	2068.273	3753.542	833	10244.27	283.9417	0.8458	115229.2	141657.4	10528.21	131129.2	138268.4	3.2286
-0.727	12.2985	205.3064	87.0655	9.9598	154.0348	6.3253	3.3514	4.2496	11876.95	5129.512	1337.999	1702.281	4472.164	833	12298.45	285.8246	1						

TABLE 6

9 BG ETHANOL

\$/46barrel Mean Crude Oil

0.3478	11.2628	154.4575	86.6977	7.5113	141.2803	7.5625	2.8985	3.5814	11187.47	4861.467	1311.376	1798.792	3980.84	833	10937.57	284.5487	0.9711	113133.6	140255.7	11222.12	129033.6	136643.3	3.5268
-1.2507	11.6109	121.4289	86.6403	8.237	154.5918	5.0187	2.5023	2.9972	12120.49	5412.619	13661.18	1796.048	4222.155	921.5556	11610.93	283.1572	1	115787.3	143581.3	11894.08	131687.3	139752.6	2.9562
-0.1357	11.6518	127.9227	87.0509	5.1789	152.879	4.9726	2.5725	3.0077	12516.51	5422.604	1367.11	2162.051	4237.036	925.7143	11651.85	283.3821	1	115212.2	143047.4	11935.23	131112.2	139205.5	3.0566
-1.0152	11.0076	156.1789	86.604	9.4002	136.5394	7.7033	2.9279	3.6248	10541.37	4830.943	1308.344	1334.469	3832.613	833	10523.71	284.7047	0.956	113173.2	139881.6	10808.41	129073.2	136402.4	3.571
1.1638	11.9019	147.235	87.2952	6.9185	145.0461	7.3268	2.8125	3.4546	11658.33	4912.524	1316.447	2107.05	4087.314	833	11216.08	284.2262	0.9424	113623.5	141023.8	11500.31	129523.5	137321.9	3.4023
0.1853	10.5924	179.3785	87.3698	8.2017	152.4991	5.2771	3.1636	3.9724	12073.06	5356.634	1360.557	2203.867	3851.769	898.2379	10592.37	285.4807	1	111285.7	138063.5	10877.85	127185.7	134561.9	3.9087
0.1165	12.2479	225.1167	87.0427	8.6481	144.8351	8.0922	3.5197	4.4978	11354.3	4746.688	1299.976	1618.841	4453.791	833	12247.93	286.3778	1	107443.8	135878.1	12534.3	123434.8	131844.3	4.4767
0.0148	12.339	99.2976	87.2354	7.159	153.7544	5.2809	2.2214	2.5829	12312.11	5355.799	1360.474	2148.565	4147.379	897.8902	11369.08	282.2614	0.9214	118144.4	145695.4	11651.34	130404.1	141944.8	2.5054
0.3881	11.1602	160.7278	87.5435	8.724	158.2277	5.0368	2.959	3.6708	12471.44	5408.697	1365.728	2316.845	4058.245	919.9222	11160.18	284.7176	1	112515.1	139860	11444.9	128415.1	136175.9	3.6125
-2.6647	11.2351	112.2046	85.3865	8.3669	158.6474	3.7175	2.3947	2.8385	12218.96	5694.552	1394.12	1603.805	4085.5	1038.981	11235.13	282.8463	1	116877.1	144295.1	11517.98	132777.1	140587.4	2.8031
0.3096	10.7498	170.0653	87.0011	9.5989	154.8593	5.6247	3.0665	3.8292	11986.44	5281.314	1353.076	2174.145	3909.036	866.8674	10745.85	285.1334	1	111942.8	138877.8	11034.98	127842.8	135325.6	3.7686
0.3426	11.3506	171.5134	87.8971	7.9954	156.2447	5.116	3.0642	3.8258	12484.22	5391.53	1364.023	2286.419	4127.471	912.7721	11350.55	285.0362	1	111570.8	139106.3	11635.59	12740.8	135360.9	3.7621
0.224	10.4027	171.9483	87.386	9.4862	145.7188	6.6459	3.0953	3.8716	11351.46	5060.057	1331.1	1942.499	3782.808	833	10402.72	285.2814	1	111943	138531	10688	127843	135090.6	3.8117
-1.6308	10.6233	164.9273	88.8616	6.2902	152.8882	3.1556	3.0174	3.7568	12624.2	5816.281	1406.211	2047.01	3863.016	1089.681	10623.3	284.9887	1	112408.6	139216.9	10908.29	128308.6	135705.5	3.6989
0.9514	11.8443	331.6208	87.1489	7.8733	146.7618	7.7273	4.2632	5.5942	11634.62	4825.754	1307.829	1959.003	4307.034	833	11844.35	288.8733	1	101925.9	129959.1	12133.22	117825.9	126053.4	5.4699
-0.5811	11.8873	199.8355	87.4703	7.9249	141.9619	7.4246	3.316	4.1973	11292.42	4891.331	1314.342	1529.112	4322.633	833	11887.25	285.7771	1	109260.3	137333.3	12173.03	125160.3	133414.8	4.1192
1.1918	10.4958	145.2809	88.7417	8.1018	146.5564	6.3645	2.8091	3.4495	11818.28	5121.021	1337.156	2308.458	3816.648	833	10495.79	284.3118	1	114121.4	140801.5	10780.1	130021.4	137331.4	3.4005
1.7614	12.4089	220.4289	88.2049	7.479	150.7054	6.575	3.4761	4.4334	12165.83	4858.743	1311.105	2248.651	4512.334	833	12408.92	286.2087	1	107679.9	136274.8	12695.13	132579.7	132188.3	3.4442
0.4234	12.0017	124.2154	87.0512	7.2821	143.8572	6.547	2.5644	3.0887	11475.36	5081.483	1333.229	2206.081	3799.564	833	10382.54	283.5084	0.8651	116111.6	142677.6	10666.05	132011.6	139244.2	3.0495
-1.3002	11.1967	190.4022	87.7411	8.5743	150.5142	5.0912	3.251	4.1014	11915.72	5396.917	1364.558	1765.699	4071.534	915.0158	11196.73	285.6755	1	110212.5	137594.9	11482.41	126112.5	133898.7	4.0304
-0.4745	11.8852	162.6794	87.318	8.2364	140.3737	7.7594	2.9656	3.6805	11100.98	4818.788	1307.137	1496.26	4243.797	833	11664.51	284.667	0.9814	112135.3	139984.4	11949.17	128032.5	136138	3.6195
0.5737	12.5448	157.8377	87.2335	9.8224	133.9541	8.3554	3.0419	3.6916	10369.54	4689.66	1294.311	1712.497	3438.074	833	9316.678	418.8352	0.7427	113491.1	139126.6	9735.513	129391.1	135992.7	3.6461
-0.2338	12.0214	133.1131	88.4732	8.0247	148.2689	6.3391	2.6324	3.1891	11928.02	5126.533	1337.703	1857.364	4371.419	833	12021.4	283.5324	1	114501.1	142706	12304.94	130401.1	138745	3.1411
0.707	11.3594	163.7834	86.5889	8.9226	142.6527	7.9679	3.0006	3.732	11079.31	4773.612	1302.65	1832.663	3935.38	833	10803.5	284.9066	0.9511	112422.7	139411.1	11088.41	128322.7	135841.7	3.6739
1.445	10.8145	125.1522	86.5682	7.9174	151.4189	6.4103	2.5716	3.0993	11909.22	5111.106	1336.171	2380.346	3846.597	833	10571.29	283.5095	0.9775	115931.2	142686	10854.8	131831.2	139191.8	3.0591
-2.1286	11.5671	182.5434	87.5423	9.5701	149.0065	5.4707	3.1658	3.9758	11618.38	5328.465	1357.76	1437.442	4206.205	886.5055	11567.07	285.3372	1	110637.2	138389.6	11852.4	126537.2	134574.4	3.9064
0.2332	11.7593	169.8421	87.1036	9.85	141.1708	8.1946	3.057	3.8152	10905.95	4724.493	1297.771	1635.685	4013.002	833	11008.88	285.0632	0.9362	111848.9	139042.8	11293.95	127748.9	135407.3	3.7536
0.2301	12.2561	138.0217	85.938	10.5215	135.4562	7.957	2.9246	3.7174	10215.63	4775.991	1302.886	1682.247	3219.506	833	8702.684	280.8951	0.7101	115409.3	140616.9	9307.579	131309.3	137620.8	3.3474
0.4471	10.446	174.1882	86.2534	8.121	147.2428	6.4956	3.1165	3.9029	11504.43	5092.611	1334.334	2043.942	3798.545	833	10445.98	285.3459	1	111748.7	138380	10731.32	127648.7	134925.6	3.842
-0.4818	11.6073	173.8572	86.4134	8.3519	144.5421	7.286	3.0802	3.8495	11283.16	4921.376	1317.326	1588.63	4220.833	833	11607.29	285.0505	1	111278.9	139071.3	11892.34	127178.9	135243.1	3.7837
-0.492	11.3623	187.1366	86.2215	8.5797	151.1222	5.1595	3.2155	4.049	12198.48	5382.119	1363.089	2010.682	4131.741	908.8524	11362.29	285.5328	1	110382.7	137930.5	11647.82	126282.7	134181.1	3.9786
-1.2124	12.2535	145.6047	85.7883	8.6389	141.2537	7.312	2.7953	3.4293	10897.63	4915.728	1316.765	1349.619	4080.518	833	11180.51	284.1743	0.9124	113781	141145.7	11464.69	129681	137455.2	3.3778
1.3858	12.2249	133.9372	87.8116	8.9736	148.8202	6.9247	2.6737	3.2499	11732.69	4999.64	1325.1	2258.504	3914.443	833	10703.15	283.8335	0.8755	115044.9	141931.9	10986.98	130944.9	138395.2	3.2053
-0.6327	12.4086	204.3899	87.1416	8.792	140.5422	8.4609	3.34	4.2327	11111.42	4666.799	1292.041	1305.354	4512.226	833	12408.62	285.7693	1	108737.6	137332	12694.39	124637.6	133245.7	4.1502
-0.6788	10.8501	137.3943	87.0888	7.6946	150.5423	4.5302	2.7104	3.3041	12284.93	5518.448	1376.629	2076.739	3945.484	965.6336	10850.08	283.9367	1	114661.1	141695.2	11134.02	130561.1	138111.1	3.2574
0.5078	10.4018	136.2033	88.155	7.2969	145.7267	5.8989	2.7124	3.3069	11783.18	5223.876	1347.371	2184.535	3782.455	842.9444	10401.75	284.001	1	114940	141525.7	10685.76	130840	138086	3.2621
-1.3087	11.5827	175.5384	85.8755	9.0133	155.9097	5.2322	3.0975	3.875	11983.56	5368.297	1361.716	1378.561	4211.894	903.0956	11582.71	285.1108	1	111160.2	138928	11687.82	127060.2	135107.7	3.8085
-0.6376	11.14	183.1449	87.21	6.3392	148.5022	5.276	3.1841	4.0027	12009.49	5356.869	1360.581	1940.783	4050.917	898.3359	11140.03	285.4637	1	110771.1	138096.6	11425.49	126671.1	134418.7	3.935
1.9235	10.8907	147.7353	88.9402	8.3496	158.1915	5.2563	2.864	3.4751	12748.75	5361.133	1361.004	2764.253	3960.25	900.1119	10890.69	284.316	1	113728	140803	11175	129628	137205.3	3.4236
1.2102	12.8636	111.4376	86.8129	8.8864	144.0664	6.5771	2.54	2.8866	11226.59	5074.96	1332.581	2271.845	3312.2	833	8942.781	502.6221	0.6952	117951.8	143297.2	9445.403	133851.8	140256.7	2.8637
0.4375	12.6739	123.4169	88.0609	7.4673	151.7921	6.2549	2.5143	3.0149	12233.48	5144.77	1339.514	2089.012	4425.18	833	12152.28	283.1239	0.9588	115336.4	143671.8	12435.42	131236.4	139668.9	2.9716
0.2162	12.2116	155.3139	88.4154	10.1231	152.7548	6.7536	2.8739	3.5453	11959.53	5036.713	1328.782	1918.454	4440.586	833	12211.62	284.2913	1	112493.6	140889.5	12495.91	128399.6	136879.1	3.4857</

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

1.3192	11.5228	136.3361	86.6854	4.6523	150.548	6.0967	2.6818	3.2619	12349.92	5179.055	1342.92	2402.821	4190.123	833	11522.84	283.7562	1	114443.3	142149.9	11806.6	130343.3	138349.4	3.2137
-0.408	11.2113	139.8418	87.002	9.003	155.7884	5.1956	2.7296	3.3324	12151.35	5374.291	1362.311	2030.328	4076.823	905.5923	11211.26	283.9536	1	114274.1	141669.3	11495.22	130174.1	137969	3.2835
-1.7652	10.6345	126.7866	87.9825	8.3514	149.8985	4.3832	2.59	3.1265	11936.59	5550.305	1379.793	1758.508	3867.08	978.9019	10634.47	283.5633	1	115745.2	142563.3	10918.04	131645.2	139048.8	3.0854
-0.0428	11.1489	203.636	87.7875	8.1248	147.0143	6.2486	3.3728	4.2809	11711.56	5146.147	1339.651	1936.609	4054.15	833	11148.92	286.0851	1	109293.5	136628.5	11435	125193.5	132947.6	4.2049
0.2606	11.5173	113.2877	85.6571	7.9445	150.3883	6.0082	2.4246	2.8826	11687.05	5198.216	1344.823	2081.76	3827.255	833	10485.44	283.0291	0.9104	117138.7	143807.2	10768.47	133038.7	140340.8	2.8483
2.3004	11.3378	131.2462	86.6219	9.1863	148.5103	7.0974	2.7113	3.2431	11499.98	4962.231	1321.384	2516.661	3464.706	833	9448.664	366.2383	0.8334	115834.9	141549.8	9814.903	131734.9	138390.3	3.2062
-0.0033	11.3445	122.7815	86.6544	8.7119	146.2527	6.4237	2.5456	3.061	11399.3	5108.205	1335.883	1914.204	3806.014	833	10432.31	283.4395	0.9196	116226.1	142841.8	10715.75	132126.1	139392.4	3.0223
-0.3518	10.8426	115.1171	85.8006	9.5127	146.2601	6.1593	2.4641	2.9407	11157.88	5165.478	1341.571	1855.559	3560.269	833	9747.32	283.2583	0.899	117317	143248.2	10031.17	133217	140019.1	2.9073
0.7444	11.1052	161.7883	87.5407	9.0216	138.9901	7.9819	2.9929	3.7207	10913.38	4770.592	1302.35	1841.817	3763.623	833	10321.31	284.9509	0.9294	112796.5	139302.8	10606.26	128696.5	135888.6	3.6653
-0.8979	9.754	117.6808	87.4873	8.734	152.6542	4.1408	2.4968	2.9889	12022.03	5602.825	1385.01	2084.495	3546.926	1000.777	9754.048	283.3552	1	117056.4	142993.8	10037.4	132956.4	139762.8	2.9544
-1.1366	11.1046	166.0168	87.0955	9.0572	141.9151	6.8661	3.0154	3.7538	11074.82	5012.354	1326.362	1463.072	4038.029	833	11104.58	284.9116	1	112111.6	139401.1	11389.5	128011.6	135734.8	3.6935
-0.5313	11.1833	118.5057	86.4857	7.3008	156.8762	4.589	2.4756	2.9579	12422.21	5505.707	1375.364	2112.159	4066.656	960.3269	1183.31	283.1191	1	116278.1	143644.5	11466.42	132178.1	139953.5	2.9194
-1.4436	11.1498	101.9607	88.2709	10.1505	148.1722	5.3817	2.2687	2.6527	11575.26	5333.969	1358.306	1661.697	3930.492	888.798	10798.1	282.4761	0.9685	118153	145133.6	11080.58	134053	141566.7	2.6234
0.3042	10.5241	134.1387	88.6475	8.7243	135.766	6.9387	2.6974	3.2847	10850.85	4996.607	1324.798	1714.898	3579.552	833	9818.23	284.0284	0.9329	115440.6	141442.9	10102.26	131340.6	138191	3.2428
-0.1784	12.9431	116.975	87.5359	7.1686	151.2034	6.0559	2.4409	2.9066	12151.82	5187.89	1343.797	2045.899	4339.231	833	11893.44	282.924	0.9189	116080.5	144156.9	12176.36	131980.5	140237.3	2.8673
1.2607	9.9653	149.4604	87.6884	8.0057	155.1057	4.9553	2.8693	3.5383	12359.24	5426.36	1367.483	2612.365	3623.749	927.279	9965.312	284.5859	1	113996.8	140146.7	10249.9	129896.8	136847.2	3.4894
0.1998	12.3988	111.4538	88.4855	7.9486	146.6071	6.031	2.4087	2.859	11807.28	5193.291	1344.334	2320.14	3714.516	833	10118.38	283.0167	0.8161	117506.6	143808	10401.39	133406.6	140459.8	2.8265
0.276	10.2586	134.2564	87.1381	10.281	144.251	6.8783	2.6969	3.284	11086.71	5009.711	1326.1	1912.678	3603.221	833	9897.532	284.0135	0.9648	115392.6	141474.2	10811.55	131292.6	138197.6	3.2417
-2.5701	10.5459	155.4312	87.1284	8.2075	148.8084	4.1991	2.9193	3.621	11744.1	5990.19	1383.755	1537.757	3834.884	995.5139	10545.93	284.6728	1	113226.2	139956.8	10830.6	129126.2	136470.4	3.5855
-0.429	11.7296	189.5319	88.017	8.2976	133.7113	6.8806	3.2332	4.0751	10659.38	4619.208	1287.314	1326.609	4191.254	833	11520.38	285.5654	0.9822	110142.3	137848.3	11805.94	126042.3	134047.9	4.003
-0.7995	10.1535	124.6425	87.8774	5.621	157.1018	2.9042	2.5749	3.1042	12922.63	5870.75	1411.623	2331.718	3692.174	1112.367	10153.48	283.5712	1	116180.3	142517.3	10437.05	132080.3	139157.6	3.0654
2.6411	12.7792	123.1491	88.3728	8.9526	156.4247	6.4649	2.5389	3.0511	12423.28	5099.264	1334.995	2752.157	4001.863	833	10928.68	283.358	0.8552	115951.5	143063.6	11212.04	131851.5	139454.4	3.011
-0.6187	12.6142	139.7374	87.9389	6.4796	158.1816	4.6443	2.6937	3.2795	12885.37	5493.737	1374.175	2073.148	4586.964	955.3416	12614.15	283.8559	1	113633.9	142431.7	12897.81	129533.9	138279.9	3.2265
-1.3464	11.6453	198.7919	87.2366	6.8883	139.0567	6.9376	3.3141	4.1945	11172.97	4996.856	1324.823	1381.627	4234.66	833	11645.32	285.8105	1	109430.9	137262.1	11931.13	125330.9	133421.4	4.118
0.8875	11.0486	189.7152	88.3259	7.6652	135.708	8.5794	3.2495	4.0991	10946.31	4641.136	1289.492	1768.12	4012.557	833	11034.34	285.6963	0.9987	110329.4	137544.9	11320.04	126224.9	133905.5	4.0291
-0.5967	11.9232	155.0233	87.1278	7.1396	159.0337	4.4935	2.8784	3.552	12720.81	5526.401	1377.419	2110.338	4335.703	968.9461	11923.19	284.346	1	112646.4	140753.9	12207.53	128546.4	136824.3	3.4936
1.8368	10.9964	133.9755	87.6369	7.4455	154.0859	6.023	2.6671	3.2402	12356.38	5195.018	1344.505	2583.177	3998.675	833	10996.36	283.7745	1	114903.9	142084.1	11280.13	130803.9	138453	3.1947
-0.9413	12.1136	130.439	87.0545	9.2578	152.9561	5.9702	2.5899	3.1388	11899.48	5206.46	1345.642	1704.753	4404.939	835.6906	12113.6	283.4123	1	114701.4	142998.4	12397.01	130601.4	139007.8	3.0929
-1.2431	11.4913	106.6159	87.4988	7.9493	155.462	4.4746	2.3167	2.7235	12366.93	5530.512	1377.828	1907.293	4178.639	970.6584	11491.26	282.5621	1	117317	144990.8	11773.82	133217	141200.8	2.6905
1.0412	11.161	174.1402	90.981	8.2083	144.1231	6.8433	3.0957	3.8723	11802.21	5017.277	1326.851	2164.527	4058.554	833	11161.02	285.1685	1	111447.6	138793.8	11446.19	127347.6	135109.3	3.8083
-1.7067	10.6029	155.3541	88.7647	8.6106	143.4731	5.2231	2.9187	3.6078	11499.96	5368.322	1361.718	1609.228	3855.583	903.1061	10602.86	284.657	1	113207.3	139994.8	10887.51	129107.3	136490.1	3.5549
0.016	10.5615	127.6713	86.755	9.3166	155.2753	5.2457	2.6024	3.1448	12024.26	5363.437	1361.233	2155.986	3840.529	901.0714	10561.46	283.6136	1	115696.2	142441.3	10845.07	131596.2	138952.2	3.1035
1.1442	11.8334	100.9379	87.6673	9.0538	153.0803	5.4911	2.2608	2.6409	12034.18	5310.255	1355.951	2467.906	3619.148	878.9212	9870.309	282.5451	0.8341	118831.6	144884.4	10152.85	134731.6	141616.2	2.6143
0.9329	10.4209	129.8135	87.1705	9.4007	143.8703	6.8722	2.6727	3.215	11188.77	5011.03	1326.231	2124.104	3492.403	833	9572.19	327.906	0.9186	115935.4	141735.5	9900.996	131835.4	138548.7	3.1771
-0.4832	10.9162	130.8188	86.861	9.3439	152.1425	5.6239	2.6318	3.1881	11793.65	5281.497	1353.095	1920.603	3969.515	866.9436	10916.17	283.6675	1	115232.9	142332.7	11199.84	131132.9	138727.5	3.1443
-0.7469	11.2638	187.018	87.5458	8.5783	150.7742	5.4902	3.2173	4.0516	11906.27	5310.45	1355.97	1862.937	4095.909	879.0024	11263.76	285.5537	1	110432.3	137881.6	11549.31	126332.3	134163.8	3.9817
0.1013	11.9456	113.509	87.4417	10.655	133.9895	7.0832	2.6793	2.6904	10396.11	4965.301	1321.689	1815.765	3058.358	833	8254.673	303.3397	0.691	117953.9	142811.9	10585.013	133853.9	139928.3	2.924
0.8805	11.575	165.277	87.5663	6.7801	150.418	6.2719	2.9948	3.7235	12151.7	5141.082	1339.148	2227.385	4209.089	833	11575	284.7754	1	111966.1	139725.8	11859.77	127866.1	135908.2	3.6617
0.2116	11.2769	182.8931	86.6963	8.7932	142.6747	7.9023	3.1777	3.9932	11114.8	4787.826	1304.062	1687.231	4100.681	833	11276.87	285.4212	1	110732.7	138195	11562.29	126632.7	134473.1	3.925
-0.3886	11.655	148.0733	85.7374	7.1546	150.2696	6.1945	2.8104	3.1516	11808.6	5157.852	1340.814	1836.743	4238.189	833	11655.02	284.1605	1	113352.3	141191.5	11939.18	129252.3	137348.2	3.3974
0.231	11.7419	152.3923	87.4517	7.5367	144.1719	7.3155	2.857	3.5203	11521.49	4914.975	1316.619	1801.831	4243.994	833	11669.51	284.3109	0.9938	112979.5	140833.3	11953.82	128879.5	136965.4	3.464
-1.398	12.1816	254.4625	86.7092	5.5049	147.0003	5.4911	3.7261	4.2812	12254.64	5307.276	1355.655	1651.673	4660.355	877.6804	12815.98	286.94	1	105478.7	134481.6	13102.92	121378.7		

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

-1.1439	10.2765	163.3383	87.9017	8.5488	151.1089	4.4103	3.0104	3.7464	11990.93	5544.44	1379.211	1951.911	3736.907	976.4592	10276.5	285.016	1	112689	139150.5	10561.51	128589	135750.8	3.6905
-0.1548	12.0869	128.2711	88.7781	9.2437	146.1509	6.5568	2.5912	3.1282	11624.02	5079.366	1333.018	1839.097	4137.54	833	11352.2	283.4798	0.9392	115263.5	142799.2	11635.67	131163.5	139053.7	3.0845
-2.4904	10.8236	151.7711	85.7783	7.8157	144.2075	5.3872	2.8724	3.5429	11242.79	5332.78	1358.188	1325.654	3935.869	888.3028	10823.64	284.4779	1	113411.9	140420	11108.12	129311.9	136844.3	3.4899
-1.2799	11.8125	128.8183	87.1243	7.8303	149.209	5.6868	2.5869	3.122	11831.37	5267.854	1351.739	1653.075	4295.438	861.2611	11812.46	283.4098	1	114993.7	142998.6	12095.87	130893.7	139095.9	3.0767
-0.4241	10.6075	138.4578	87.1677	6.3697	147.302	5.2428	2.7287	3.3309	11901.7	5364.056	1361.295	2015.738	3857.281	901.3292	10607.52	284.0287	1	114677.6	141469.2	10891.55	130677.6	137963.2	3.2846
0.334	11.142	142.9928	86.6915	7.9874	139.1423	7.3345	2.796	3.4302	10951.07	4910.862	1316.282	1839.981	3648.944	833	9989.317	284.3357	0.8965	114555.4	140729	12073.65	130455.4	137421.9	3.3839
-1.4209	10.4381	155.9889	87.4778	8.7602	157.0576	3.6492	2.9282	3.6252	12363.22	5709.349	1395.559	2015.479	3795.664	1045.144	10438.08	284.7176	1	113227.2	139850	10722.79	129127.2	136393.3	3.5717
-0.2613	12.1279	107.1176	86.6906	6.8325	154.4219	5.5074	2.3123	2.7171	12331.84	5306.739	1355.602	2014.909	4375.135	877.4567	12024.7	282.4912	0.9795	116997.5	145204.7	12307.19	132897.5	141243	2.6828
-0.0636	11.0013	166.6527	87.7792	6.3924	156.8841	4.0921	3.0247	3.7676	12768.29	5613.374	1386.058	2361.208	4000.484	1005.17	11001.33	284.9577	1	112105.6	139291.8	12886.29	128005.5	135658.8	3.7074
-0.314	12.1571	171.0914	88.1432	8.7747	152.4545	6.0004	3.0372	3.8611	12100.1	5199.912	1344.991	1899.424	4420.772	833	12157.12	284.8286	1	111256.8	139598.8	11441.95	127156.8	135953.7	3.7194
-0.3135	10.1474	129.03	88.4879	7.9423	142.9256	5.7306	2.6285	3.1832	11512.03	5258.369	1350.797	1953.573	3689.978	857.3106	10147.44	283.7519	1	115764.3	142095.5	12035.19	131664.3	138737.7	3.1425
1.3616	11.9182	251.9786	86.5037	8.7156	148.0566	8.3564	3.7394	4.8218	11517.05	4689.44	1250.299	1964.425	4333.899	833	11918.22	287.1513	1	105946.4	134051.8	10431.38	118164.3	130122.9	4.7232
-0.4308	12.5865	143.5789	87.6776	7.4606	154.071	5.7349	2.7372	3.3437	12359.13	5257.432	1350.704	1915.171	4576.899	856.9204	12586.48	283.7995	1	113313.1	142083.3	12870.28	129213.1	137940.4	3.2888
0.7784	10.4317	136.6259	87.9023	9.404	149.011	6.286	2.7117	3.306	11697.11	5138.034	1338.845	2191.884	3793.348	833	10431.71	283.9949	1	114925.5	141541.2	10715.71	130825.5	138091.8	3.261
0.6163	12.0702	147.2719	88.1535	8.4075	143.963	7.3475	2.8126	3.4548	11480.47	4908.042	1316.002	1927.727	4093.7	833	11226.91	284.2252	0.9301	113615.4	141026.6	11511.13	129515.4	137321.1	3.4024
-2.642	10.3282	171.9614	87.5391	10.359	137.9269	6.1028	3.0975	3.8749	10645.21	5177.734	1342.788	1133.994	3755.695	833	10328.17	285.3001	1	111973.9	138487.4	10613.47	132787.3	135070.9	3.8153
0.2784	12.6113	113.6975	87.3053	7.7279	154.1913	5.8787	2.3995	2.8456	12260.14	5226.292	1347.611	2113.352	4336.931	843.9504	11901.83	282.7881	0.9437	116398.4	144483	12184.61	132298.4	140560.8	2.8079
-0.6173	13.0189	97.3383	86.5148	6.7839	150.1095	5.2984	2.2081	2.5632	11968.36	5352.018	1360.099	1942.778	4015.151	896.3157	10955.52	282.2589	0.8415	118523.4	145661.2	11237.78	134423.3	142043.8	2.5358
0.5884	11.8566	90.2968	86.9807	9.3392	139.5766	6.0793	2.3971	2.4773	10836.93	5182.816	1343.293	2172.439	2903.383	833	7816.178	284.3477	0.6592	120669.9	145150.5	8580.526	136569.9	142388.4	2.4726
0.2491	9.953	87.2686	87.1717	8.272	138.1539	5.7657	2.3311	2.4097	10900.31	5250.756	1350.041	2126.579	2916.791	854.1398	7935.209	274.7772	0.7973	120984.2	145544.2	8659.986	136884.2	142756.6	2.405
1.8691	12.424	116.8298	87.2166	7.2312	156.031	6.0955	2.4507	2.9221	12482.77	5179.317	1342.946	2579.03	4146.475	833	11362.52	283.0164	0.9146	116354.8	143900.3	11645.54	132254.8	140151.6	2.883
-0.2717	12.8673	176.8807	86.4736	9.2339	147.9008	8.0818	3.0765	3.8442	11423.82	4748.934	1300.199	1496.703	4642.98	833	12766	284.8651	0.9921	110554.8	139505.7	13050.86	126454.8	135304.6	3.7724
-0.079	12.3582	112.4118	87.6381	7.6086	153.8157	5.7301	2.3783	2.8144	12309.79	5258.47	1350.807	2028.686	4412.474	857.3526	12128.11	282.6944	0.9814	116413.8	144724.6	12410.8	132313.8	140729.6	2.777
-0.5175	11.0314	85.056	88.2509	7.4998	146.1845	4.748	2.0594	2.331	11804.57	5471.265	1371.943	2084.802	3528.577	945.9817	9647.534	298.9454	0.8746	120616	146462.5	9946.48	136516	143260.7	2.3125
1.2864	11.1499	147.4095	88.6506	9.1193	143.6267	7.3893	2.8318	3.483	11422.82	4898.987	1315.103	2133.783	3839.948	833	10538.67	284.3817	0.9452	113915.8	140638.9	10823.05	129815.8	137155	3.5329
-0.8775	11.0486	155.1143	86.7681	8.9251	142.6663	6.9387	2.9026	3.5875	11105.57	4996.618	1324.8	1531.477	4017.678	833	11048.62	284.5468	1	113028.9	140262.1	11333.17	128928.9	136613.9	3.6322
0.2782	10.3457	138.4481	88.0308	7.8922	156.9612	4.2069	2.735	3.3403	12578.65	5588.516	1383.589	2447.658	3762.071	994.8167	10345.7	284.0838	1	114799.8	141329.6	10629.78	130699.8	137970.9	3.2947
-0.5788	12.1678	121.5894	87.8087	7.1734	155.7112	4.9849	2.4917	2.9817	12555.82	5419.934	1366.845	2017.787	4424.654	924.6026	12167.8	283.0579	1	115502.2	143853.1	12450.86	131402.2	139845.2	2.9392
0.4273	12.1685	118.2522	87.3428	8.5271	157.8674	5.8088	2.4507	2.9212	12442.44	5241.421	1349.114	2174.971	4424.68	850.2517	12167.87	282.9248	1	115822.3	144173.1	12450.79	131722.3	140165.2	2.8805
-1.3547	10.9972	117.66	88.2243	8.1337	141.6819	5.9694	2.47	2.9496	11347.4	5206.623	1345.658	1572.626	3984.734	833	935.7586	10957.31	0.9964	116471.3	143611.8	11240.44	132371.3	139993.5	2.912
0.7981	11.7163	92.1992	87.5007	9.9378	154.8822	5.1608	2.166	2.4845	12013.11	5381.819	1363.059	2423.235	3534.275	908.7276	9631.223	304.1934	0.822	119804.4	145639.9	9935.416	135704.4	142441.7	2.4628
1.4607	11.5813	169.3891	86.5997	9.4169	144.5681	8.238	3.0619	3.8225	11158.17	4715.091	1296.837	2019.804	3891.44	833	10667.31	285.1305	0.9211	112031.9	138884.4	10952.44	12931.9	135358.8	3.7625
0.0574	12.1416	144.7975	87.2974	8.5106	155.3085	5.9569	2.7619	3.3802	12236.26	5209.333	1455.927	2026.978	4415.132	836.8872	12141.61	283.9377	1	113411.9	141737.5	12425.55	129311.9	137737.7	3.326
0.6881	11.4296	152.4657	88.1212	6.6782	139.9478	7.4708	2.8725	3.5432	11397.76	4881.327	1313.348	1926.045	4042.042	833	11105.97	284.4395	0.9717	113226.2	140516.6	11390.41	129126.2	136850.1	3.4888
0.1987	11.107	136.1039	87.5035	7.4021	145.3542	6.8331	2.6812	3.261	11643.07	5019.488	1327.071	1896.974	4164.541	833	11437.36	283.7651	0.9606	114504.2	142125.3	11721.13	130404.2	138352.2	3.232
-0.5676	11.6841	170.0157	85.9829	7.7869	137.3164	8.1372	3.0536	3.8102	10737.59	4736.936	1299.007	1390.94	4075.704	833	11192.1	285.0249	0.9579	111756.3	139133.4	11477.13	127656.3	135439	3.7478
0.4072	10.2506	144.6913	86.8869	9.339	141.5664	7.2736	2.8159	3.496	10978.18	4924.045	1317.591	1875.563	3625.981	833	9962.893	284.4064	0.9719	114416.4	140563.7	10247.3	130316.4	137255.1	3.4127
0.4575	10.6572	164.9507	88.0611	8.9973	142.9475	7.1406	3.0167	3.7558	11301.97	4952.876	1320.455	1918.285	3875.355	833	10657.23	284.9815	1	112391.9	139234.1	10942.21	128291.9	135711.8	3.6977
-0.1481	11.4028	144.142	87.3651	8.5384	155.0606	5.3493	2.7734	3.3969	12222.91	5340.984	1359.003	2082.746	4146.46	891.72	11402.77	284.0725	1	113806.9	141393.7	11686.84	129706.9	137671.7	3.3454
0.2838	11.0164	120.1247	86.2074	9.3944	146.3252	6.4107	2.5302	3.0361	11239.68	5111.007	1336.161	2008.679	3548.829	833	9706.654	286.3619	0.8811	116834.8	142727.8	9993.016	132734.8	139511.1	3.0006
0.3312	10.1314	150.4289	87.7684	8.5518	155.188	4.6311	2.8757	3.5478	12293.46	5496.588	1374.458	2379.751	3684.133	956.5289	10131.38	284.5845	1	113838.1	140154.1	10415.96	129738.1	136801.2	3.4978
0.9531	12.3307	178.5501	87.0482	8.6046	150.8255	7.6833	3.1052	3.8885	11831.29	4835.284	1308.775	1968.334	4483.892	833	12330.7	285.0223	1	11					

TABLE 6

9 BG ETHANOL

\$/46barrel Mean Crude Oil

0.3093	12.4202	126.4554	87.5015	6.9576	151.7705	6.2835	2.5477	3.0642	12224.2	5138.583	1338.9	2042.286	4469.428	833	12287.83	283.2251	0.9893	114986.4	143457.5	12571.05	130886.4	139410.8	3.0189
-0.3727	11.4415	228.414	88.0922	7.4913	143.8895	6.5104	3.5732	4.5765	11597.62	5089.417	1334.017	1778.651	4160.537	833	11441.48	286.6947	1	107543.9	135172	11728.17	123443.9	131396.7	4.4895
-2.1527	11.5986	97.9959	86.9192	8.5612	142.2492	5.3437	2.2274	2.5916	11146.37	5342.19	1359.123	1442.377	3708.459	892.2221	10139.12	282.4052	0.8742	118915.3	145236.8	10421.52	134815.3	141882.1	2.5655
-0.611	10.736	168.6472	87.8068	7.8622	150.8841	4.9139	3.0525	3.8085	12062.38	5435.313	1368.372	2021.685	3904.001	931.008	10736.01	285.0888	1	112061.3	138992.4	11021.1	127961.3	135434.7	3.7485
0.4701	10.5746	132.9135	86.9651	8.2975	137.9041	7.1617	2.744	3.274	10848.59	4948.296	1320	1918.091	3427.206	833	9377.067	389.0125	0.8868	115698	141364	9766.079	131598	138220.3	3.2374
-0.5366	11.1746	123.7182	86.2072	8.0513	149.6915	5.948	2.5402	3.0531	11699.27	5211.27	1346.119	1838.68	4063.508	837.6941	11174.65	283.3333	1	115778.6	143136.6	11457.98	131678.6	139448.3	3.0121
-0.4995	10.761	144.3754	87.1305	7.6214	148.4598	5.4878	2.7922	3.4247	11803.91	5310.985	1356.023	1942.592	3913.083	879.2254	10760.98	284.22	1	114080	141025.2	11045.2	129980	137469.7	3.3751
0.0985	10.4601	132.614	86.4988	6.8602	142.763	5.4878	2.7922	3.4247	11803.91	5310.985	1356.023	1942.592	3913.083	879.2254	10760.98	284.22	1	114080	141025.2	11045.2	129980	137469.7	3.3751
0.12	12.0294	127.3318	86.9969	9.6021	134.8137	7.4211	2.7796	3.1874	10433.87	4892.096	1314.418	1754.185	3238.174	833	8765.72	572.8694	0.7287	116406.8	141645.4	9338.59	132306.8	138639.3	3.1605
-0.1016	12.7688	126.9519	89.004	8.2299	149.496	6.3727	2.5524	3.0712	12075.39	5119.246	1336.979	1892.958	4491.209	833	12337.42	283.2346	0.9662	114916.5	143437.2	12620.66	130816.5	139374.6	3.0256
0.6167	12.4392	133.2707	87.5227	8.9506	143.2756	7.0002	2.6797	3.2586	11257.47	4983.287	1323.475	1997.293	3718.415	833	10127.71	283.9263	0.8142	115376.3	141687.9	10411.63	131276.3	138336.4	3.2161
-0.8363	11.9584	117.0523	87.4657	8.0436	145.0522	6.1058	2.4588	2.9331	11520.35	5177.073	1342.723	1711.227	4054.327	833	11118.73	283.0711	0.9298	116452.2	143754	11401.8	132352.2	140083.8	2.8955
0.9889	11.3073	187.8609	88.6151	9.3352	150.9808	6.5441	3.2239	4.0614	11969.74	5082.108	1333.291	2207.614	4111.731	833	11307.26	285.5687	1	110352.3	137845.2	11592.83	126252.3	134113.4	3.991
2.6019	11.6368	146.8139	87.9205	9.6039	143.6695	7.8297	2.9096	3.5117	11251.71	4803.572	1305.626	2466.665	3440.846	833	9365.783	398.194	0.8048	114433	140097	9763.977	130333	136954	3.4698
0.6529	11.36	204.8733	88.0214	7.3442	147.7904	6.4485	3.3771	4.2873	11923.31	5102.824	1335.348	2119.226	4130.912	833	11360.01	286.0642	1	109123.9	136669.9	11646.07	125023.9	132921.1	4.2098
-0.2551	12.5067	133.665	86.9995	7.3053	151.1232	6.4545	2.6274	3.1817	12043.65	5101.524	1335.219	1827.469	4544.436	833	12497.08	283.457	0.9992	114227.4	142908	12780.54	130127.4	138793.9	3.1321
1.0254	12.1497	169.5075	87.169	9.9895	137.5336	8.4695	3.0873	3.8612	10614.78	4664.935	1291.856	1834.214	3588.776	833	9767.847	285.3535	0.804	112409.6	138362.8	10053.2	128309.6	135126.7	3.8051
-0.4384	10.8814	231.2384	88.4451	10.3393	149.6564	5.825	3.6147	4.6376	11689.04	5237.918	1348.766	1894.703	3956.861	848.7928	10881.38	286.9321	1	107578.5	134646.8	11168.31	123478.5	131051.7	4.5528
-0.7744	12.3663	79.0104	88.0101	8.408	149.1806	4.8622	1.9711	2.1974	11875.05	5527.989	1377.577	2054.962	3542.958	969.679	9625.97	302.9504	0.7784	121338.3	147167.2	9928.921	137238.3	143971.1	2.1822
-0.3195	11.4402	188.953	88.0629	11.357	145.3886	7.5648	3.2278	4.0671	11152.16	4860.968	1311.326	1584.801	4160.688	833	11440.19	285.5603	1	110236.3	137862.1	11725.75	126136.3	134087.6	3.9957
-0.7166	10.0633	155.0081	87.5965	8.7683	157.0276	3.7894	2.9275	3.6242	12378.2	5678.966	1392.572	2212.8	3659.373	1032.489	10063.28	284.7683	1	113476.7	139724.7	10348.05	129376.7	136393.7	3.5726
1.9764	11.3749	198.7485	89.1902	7.7851	149.0592	6.9462	3.3221	4.2062	12134.18	4994.993	1324.638	2443.221	4136.325	833	11374.9	285.8807	1	109543.3	137104.1	11660.78	125443.3	133350.5	4.131
-0.5281	11.6934	95.1055	88.4013	8.7637	154.5091	4.9928	2.1625	2.4961	12304.74	5418.22	1366.674	2032.457	4161.501	923.8888	11436.94	282.0612	0.9781	118559.3	146178.3	11719	134459.3	142406	2.4694
0.4187	12.1222	118.3943	87.2098	7.9923	152.6551	6.0904	2.4654	2.9428	12092.96	5180.404	1343.054	2115.906	4218.596	833	11583.3	283.0395	0.9555	116093.9	143860.2	11866.34	131993.9	140400.5	2.9034
2.5403	11.3605	164.9758	86.4938	7.7682	144.2764	8.1651	3.0305	3.776	11358.24	4730.903	1298.408	2379.886	3714.044	833	10166.6	285.0994	0.8949	112603.4	138955.1	11045.17	128503.4	135590.7	3.7199
0.2571	11.5843	112.9267	87.1777	8.336	149.9441	5.9461	2.4137	2.8664	11821.84	5211.688	1346.161	2093.06	3931.061	837.8681	10781.16	282.9595	0.9307	117029.1	143993.2	11064.12	132929.1	140431.7	2.8316
0.4509	11.4315	146.5229	87.5736	7.6588	144.4675	7.1438	2.8016	3.4368	11545.08	4952.179	1320.386	1915.516	4121.996	833	11333.31	284.1747	0.9914	113631.8	141149.3	11617.49	129531.8	137409.6	3.3862
0.2148	11.9356	159.227	87.9079	8.1618	150.5038	6.4265	2.9224	3.6186	12002.09	5107.599	1335.822	1983.45	4340.22	833	11935.61	284.4874	1	112295.6	140415.7	12220.1	128195.6	136482	3.5564
-2.1029	11.41	188.5411	87.8778	6.855	154.2577	3.6492	3.2272	4.0663	12488.39	5709.341	1395.589	1797.221	4149.101	1045.14	11410.03	285.5633	1	110260.1	137855.7	11695.59	126160.1	134090.8	3.9951
0.2102	12.1657	106.2846	88.4705	7.3676	144.1524	5.7721	2.3397	2.7574	11691.18	5249.387	1349.905	2112.838	3723.478	853.5696	10155.26	282.781	0.8347	118022.9	144361	10438.05	133922.9	141001	2.7272
0.5754	11.7985	176.9813	88.1006	7.6981	155.1286	5.587	3.1054	3.8867	12472.72	5289.493	1353.889	2266.722	4290.344	870.274	11798.45	285.1041	1	110958.4	138941.9	10283.55	126858.4	135052.2	3.8187
-0.5034	11.8435	182.6755	87.3191	8.025	149.8483	6.0994	3.159	3.9657	11882.09	5178.474	1342.862	1819.039	4306.714	833	11843.47	285.2721	1	110511.6	138540.6	12128.74	126411.6	134636.1	3.8951
-1.6053	12.1745	150.9728	87.3407	8.9639	140.7749	7.3118	2.8348	3.4676	11033.49	4915.784	1316.771	1223.936	4342.001	833	11933.93	284.2022	0.9802	112980	141098.1	12218.14	128880	137165.1	3.431
-0.053	12.6419	114.8502	86.4721	7.4783	151.9362	5.9863	2.4066	2.8767	12002.01	5202.968	1345.295	1895.774	4231.741	834.236	11597.92	282.8911	0.9174	116434.3	144215.1	11880.81	132334.3	140390.6	2.8392
0.389	11.839	128.3576	87.6688	9.68	138.778	7.1214	2.7028	3.1954	10823.13	4957.033	1320.868	1900.207	3410.017	833	9267.676	420.4596	0.9782	116161.9	141750	9688.135	132061.9	138631.4	3.162
0.9855	11.788	152.9536	88.1297	9.0665	155.3738	5.8887	2.8599	3.5246	12440.75	5224.124	1347.396	2337.643	4286.538	843.0478	11787.98	284.3042	1	112879.3	140851.6	12072.29	128779.3	136965.5	3.4677
0.5692	11.3552	131.1719	88.4429	7.9228	154.6636	5.3145	2.6256	3.179	12453.53	5348.516	1359.751	2319.233	4129.174	894.8569	11355.23	283.5926	1	114992.7	142531.6	11638.82	130892.7	138785	3.1338
0.4895	11.2449	100.7588	87.9392	9.7285	148.6087	5.6296	2.3022	2.6636	11622.78	5280.249	1352.971	2230.704	3490.435	866.4239	9527.289	333.459	0.8473	118895.3	144656	9860.748	134795.3	141481.9	2.6389
2.1087	11.5867	163.8599	87.4138	7.8343	158.7874	6.0729	2.9799	3.7016	12636.21	5184.214	1343.432	2660.202	4213.362	833	11586.75	284.725	1	112074.4	139845.8	11871.47	127974.4	136024.4	3.6403
-0.4642	10.8201	207.1347	86.4663	6.6937	147.0839	5.6835	3.414	4.3416	11733.27	5268.57	1351.811	1914.752	3934.573	861.5597	10820.08	286.2767	1	109183.5	136189.9	11106.36	125083.5	132614.8	4.266
-0.4371	10.471	116.1843	87.2193	8.3623	149.3372	5.3783	2.462	2.9377	11776.27	5334.693	1358.378	1984.449	3807.653	889.0997	10471.05	283.1557	1	116855.3	143509.5	10754.2	132755.3	140047.7	2.9021
0.4807	11.3078	116.4259	87.1102	7.0831	154.8882	5.3846	2.4453	2.9132	12395.26	5333.329	1358.243	2276.885	4136.275	888.5313	11374.76	282.9974	1	116388.5	143946.3	11657.76			

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

1.0418	11.0988	163.1304	87.7699	9.2425	145.8908	7.5812	2.9858	3.7102	11456.41	4857.409	1310.973	2017.122	4035.911	833	11098.76	284.8146	1	112346.6	139630.1	11383.57	128246.6	135965.8	3.6511
-0.2664	10.9981	164.3313	87.6834	7.0513	157.0305	4.1688	3.0009	3.7326	12661.71	5596.758	1384.407	2280.981	3999.312	998.2497	10998.11	284.8794	1	112293.4	139476.4	11282.99	128193.4	135844.4	3.6734
-0.6819	11.6064	74.7309	87.0258	7.0169	142.5556	4.7321	2.0348	2.1722	11405.71	5474.721	1372.286	2035.369	3173.915	947.4211	8599.731	533.0989	0.7409	122259.8	147292.6	9132.83	138159.8	144352.8	2.1121
-0.5762	11.3816	182.4478	88.35	8.2646	146.9469	5.9357	3.1704	3.9824	11768.31	5213.923	1346.383	1828.454	4138.753	838.7991	11381.57	285.3808	1	110722.1	138289.1	11666.95	126622.1	134533.5	3.9139
-0.1581	11.1713	141.3043	86.3974	8.6961	148.186	6.6331	2.7472	3.3584	11514.25	5062.821	1331.375	1822.768	4062.281	833	11171.27	284.0169	1	114162.6	141517.9	11455.29	130062.6	137830.5	3.3089
1.1148	12.0263	155.9867	86.8494	10.0118	145.2937	7.8298	2.9274	3.624	11164.01	4803.551	1305.623	1990.785	3829.049	833	10466.39	284.711	0.8703	113214.8	139865.9	10751.1	129114.8	136405.1	3.5705
-0.6325	12.2775	141.9447	86.785	8.6451	155.693	5.7659	2.7268	3.3283	12165.84	5250.178	1350.337	1844.411	4464.545	854.1238	12277.5	283.8061	1	113596.7	142058	12561.31	129496.7	138014.6	3.2752
-1.5202	12.3248	148.408	85.9395	8.9938	136.257	7.5418	2.8423	3.4985	10484.39	4865.94	1311.82	1205.175	3866.454	833	10559.95	284.4139	0.8568	113819.5	140563.9	10844.36	129719.5	137073.1	3.4479
-0.8105	12.3957	162.1886	86.0651	8.2648	147.6513	7.2343	2.9406	3.1647	11487.31	4932.567	1318.438	1493.771	4507.53	833	12395.71	284.4814	1	111853.8	140433.9	12680.19	127753.8	136352.2	3.5802
1.3665	10.3132	126.6856	88.3086	10.002	146.5178	6.6336	2.6135	3.5434	11473.32	5062.716	1331.365	2310.571	3533.668	833	9695.771	289.9221	0.9401	116198.6	142084.3	9855.693	132098.6	138869.9	3.1182
-0.7787	11.4526	99.1726	86.967	10.5636	152.7406	5.3529	2.2383	2.6078	11672.93	5340.197	1358.925	1880.214	3800.197	891.3922	10410.53	282.4145	0.909	118648.6	145241.6	10692.94	134548.6	141799.5	2.5806
1.0985	11.7129	149.3817	86.7256	8.9453	140.74	6.9551	2.8777	3.5468	10946.79	4832.723	1308.521	2012.495	3558.054	833	9699.922	289.6811	0.8281	114120.3	140009.9	9989.603	130020.3	136794.2	3.4991
0.7448	11.5801	129.4666	86.7352	7.4468	141.942	6.834	2.6412	3.2019	11254.35	5019.289	1327.051	2071.536	3601.473	833	9831.446	283.8339	0.849	115872.7	141888	10115.28	131772.7	138631.9	3.1619
1.3175	11.0437	119.2473	87.8699	9.0221	151.6837	6.2042	2.4986	2.9917	11959.93	5155.75	1340.605	2380.75	3847.83	833	10565.81	283.2689	0.9567	116506.1	143255.2	10849.08	132406.1	139762.8	2.9544
0.0613	11.0403	168.9745	86.9281	8.5451	149.9876	6.1319	3.0473	3.8009	11756.49	5171.421	1342.162	1993.232	4014.671	833	11040.35	285.0266	1	111903.9	139129.3	11325.37	127803.9	135483.7	3.7396
0.8037	10.3544	123.2206	87.3205	8.6858	144.1993	6.5089	2.5752	3.0939	11339.07	5089.728	1334.047	2155.4	3524.893	833	9668.716	297.7944	0.9338	116542	142408.5	9966.51	132442	139200.3	3.0576
1.4617	10.4717	156.7915	87.0688	9.0668	153.2593	6.2307	2.9359	3.6365	11954.53	5150.008	1340.035	2421.593	3807.894	833	10471.71	284.7386	1	113144.9	139801.4	10756.45	129044.9	136338.9	3.5826
0.1927	12.0615	172.4309	87.1022	7.9065	144.8424	7.727	3.0532	3.8097	11470.91	4825.821	1307.835	1716.258	4385.994	833	12061.48	284.8946	1	111194.4	139440.8	12346.38	127059.4	135466.5	3.7427
-0.7543	11.5122	136.2152	87.3357	7.4004	152.2081	5.1636	2.6806	3.2602	12166.81	5381.213	1362.999	1925.883	4186.238	908.4752	11512.16	283.7539	1	114459.2	142155.1	11795.91	130359.2	138358	3.2121
1.5942	10.4554	154.6202	87.9653	10.2548	158.0955	5.6337	2.913	3.6027	12285.69	5279.364	1352.883	2583.41	3801.977	866.055	10455.44	284.6643	1	113334.9	139975	10740.11	129234.9	136517.7	3.5498
1.1431	12.1781	142.5067	87.7668	6.8145	144.0501	7.203	2.7633	3.3822	11661.19	4939.341	1319.111	2125.194	4042.545	833	11074.66	284.0825	0.9094	114100.8	141359.5	11538.74	130000.8	137703.2	3.3323
0.1134	10.7491	91.249	87.7062	9.115	145.7842	5.3906	2.2341	2.4749	11457.34	5332.044	1358.115	2158.19	3318.993	887.9964	9056.628	449.6991	0.8426	120115.2	145521.5	9506.327	136015.2	142461.4	2.4592
-0.2686	12.4862	96.4025	87.7114	7.8623	150.2009	5.2039	2.1827	2.5258	11993.4	5372.483	1362.132	2073.277	3878.672	904.8392	10587.45	282.2111	0.8479	118967	145736.7	10869.66	134867	142237.7	2.5002
-0.5496	11.0658	122.4154	87.6793	7.748	151.9579	5.0195	2.5267	3.0332	12146.19	5412.439	1366.1	2020.236	4023.932	921.4807	11065.82	283.3016	1	115956	143205.1	11349.12	131856	139551.8	2.9931
-1.1957	12.5685	166.5493	88.2018	8.0881	154.6793	5.1973	2.9802	3.7021	12391.93	5373.924	1362.275	1777.933	4570.359	905.4393	12568.49	284.5844	1	111432.8	140185.8	12853.07	127332.8	136048.4	3.6359
0.6462	10.5802	104.8682	88.3023	8.2757	137.1187	6.377	2.5046	2.7645	10973.14	5118.31	1336.886	2131.368	3151.579	833	8582.086	294.8303	0.8111	118765.1	143842	9176.917	134665.1	140087.9	2.7479
-0.6473	12.3602	136.7413	86.1743	6.6732	140.5138	6.993	2.6982	3.2861	11171	4984.851	1323.631	1594.254	4033.262	833	11039.3	283.8721	0.8931	114632.2	141855.3	11323.17	130532.2	138210.4	3.2392
-0.3465	11.4622	132.3487	86.7964	8.4899	140.834	6.8776	2.6659	3.2883	11028.22	5009.858	1326.115	1713.615	3743.632	833	10247.06	283.8649	0.894	115405.9	141836.9	10530.92	131305.9	138447	3.1958
0.3714	10.083	136.0995	86.8902	5.8082	146.7651	5.3668	2.7141	3.3094	11900.01	5337.195	1358.627	2245.498	3666.554	890.1415	10083.02	284.0476	1	115136	141403.1	10367.07	131036	139065.9	3.2657
-0.0452	10.894	124.0757	88.7214	9.7011	138.0964	6.7318	2.6178	3.1134	10912.42	5041.449	1329.252	1839.171	3467.546	833	9478.105	354.9163	0.87	116514.8	142247.8	9833.022	132414.8	139082.6	3.0792
0.1873	11.8873	164.78	87.8461	7.285	152.1277	5.824	2.9811	3.7034	12255.57	5238.124	1348.787	2095.138	4322.647	848.8786	11887.29	284.6855	1	111869.5	139941.5	12171.97	127769.5	136023.3	3.6405
-1.8709	9.7951	172.8641	87.1035	9.2159	137.8079	6.022	3.1217	3.9105	10733.53	5195.231	1344.526	1396.909	3561.868	833	9795.141	285.4622	1	112130.4	138111	10080.6	128030.4	134866	3.8529
0.7616	11.0988	150.7448	87.3449	8.752	147.3689	7.0898	2.854	3.5159	11582.14	4963.887	1321.549	2025.772	4035.933	833	11098.82	284.3793	1	113375.5	140658.7	11383.2	129275.5	136994.5	3.4623
1.4594	11.1539	156.9759	86.4365	8.9943	150.3109	7.4892	2.9204	3.7158	11640.4	4877.33	1312.951	2169.163	4045.957	833	11125.93	284.5948	0.9975	112839.3	140149.8	11440.52	128733.9	136478.8	3.5573
-0.7866	11.7839	107.9721	87.5585	8.2019	149.1124	5.6415	2.3384	2.6555	11833.05	5277.672	1352.715	1819.983	4115.328	865.3505	11301.48	282.6537	0.9591	117273.2	144757.3	11584.14	133173.2	141028.4	2.7221
2.1844	12.2619	177.5439	87.0588	9.5702	156.6657	4.8646	3.0975	3.8751	12139.81	5445.997	1369.433	1528.069	4458.854	935.4576	12261.85	285.0084	1	110719.1	139166	12546.86	126619.1	135127.1	3.805
-1.5053	12.177	104.6039	88.9317	8.2092	148.8426	5.4538	3.26	4.147	12014.94	5318.345	1356.754	1627.65	4428.002	882.2905	12177.01	285.5481	1	109500.9	137871.9	12462.56	125409.3	133860.2	4.0375
-0.6691	11.6905	114.7426	86.4447	7.4686	141.045	6.1686	2.4547	2.8269	11139.19	5163.474	1341.372	1752.181	3647.158	833	9957.913	283.1897	0.8518	117251.7	143392.8	10241.1	133151.7	140096.2	2.8932
1.7069	11.1167	133.1201	86.6377	7.7886	152.2709	6.6865	2.6583	3.2273	12006.42	5051.264	1330.227	2408.928	3981.004	833	10943.29	283.7522	0.9844	115007.3	142134.4	11227.04	130907.3	138520.4	3.1823
-0.2876	12.5691	116.9913	87.4886	6.9643	127.9591	6.0685	2.4467	2.6153	11901.41	5185.165	1343.527	1894.265	4243.453	833	11635.01	282.9725	0.9257	116205.5	144023.5	11917.98	132105.5	140187.1	2.8765
2.1275	11.9512	114.5805	87.0828	8.6029	148.1226	5.6252	2.5384	2.9415	11624.65	5086.2	1333.697	2575.746	3394.012	833	9216.537	427.009	0.7712	117541.7	143085.2	9643.541	133441.7	139890.9	2.9143
1.8383	10.6542	110.4559	87.2047	6.8496	150.7812	5.8631	2.3963	2.8408	12116.04	5229.671	1347.947	2615.656	3675.408	845.3581	10083.87	282.9784	0.9468	117624.1					

TABLE 6

9 BG ETHANOL

\$/46barrel Mean Crude Oil

0.6109	11.9144	107.2291	87.6275	7.7775	147.9961	5.7978	2.3514	2.7745	11817.49	5243.818	1349.352	2235.944	3735.123	851.2503	10200.87	282.8152	0.8562	117901.4	144285.1	10483.68	133801.4	140910.4	2.7438	
-0.4763	11.1944	178.0319	88.1022	9.2946	155.9072	4.8865	3.1331	3.9274	12286.68	5441.265	1368.963	2070.278	4070.683	933.4868	11194.39	285.2868		1	111134.3	138514	11479.68	127034.3	134817.8	3.8616
-0.0177	11.3686	176.8792	89.0111	7.9704	148.2355	5.8018	3.1168	3.9034	12013.11	5242.951	1349.266	2033.974	4134.03	850.8889	11368.58	285.2065		1	111148.5	138702.3	11653.79	127048.5	134951	3.8373
0.2622	11.0839	133.2343	86.6986	8.1498	149.0178	6.4319	2.6563	3.2243	11705.16	5106.428	1335.706	1997.518	4030.507	833	11083.9	283.7278		1	114930.8	142198.4	11367.62	130830.8	138539.2	3.1789
0.4578	11.6598	137.1044	88.2049	8.2222	155.4296	5.498	2.6873	3.27	12431.69	5308.762	1355.803	2246.896	4239.927	878.2991	11659.8	283.7568		1	114310.5	142154	11943.56	130210.5	138309.4	3.2211
-0.4317	11.6045	113.9599	87.8871	7.9669	150.48	5.6869	2.4092	2.86	12026.4	5267.843	1351.738	1924.475	4219.085	861.2565	11602.47	282.8533	0.9998	116520.2	144305.5	11885.32	132420.2	140479.6	2.8228	
-1.0655	12.4106	132.6252	85.7753	8.362	145.2337	6.7719	2.6428	3.2044	11243.02	5032.759	1328.389	1504.669	4142.2	833	11350.83	283.6497	0.9146	114861.1	142395.6	11634.48	130761.1	136650.3	3.1585	
-0.2068	11.6129	115.907	86.4962	9.9293	144.3953	6.3642	2.5031	2.9602	11055.9	5121.092	1337.163	1860.989	3501.655	833	9542.107	333.6928	0.8217	117306.2	143082	9875.8	133266.2	139903.9	2.9286	
-1.0909	10.9211	141.3849	88.3396	9.1334	152.4125	4.7325	2.7544	3.3689	12072.01	5474.63	1372.277	1904.424	3971.294	947.3836	10921.06	284.0734		1	114270.7	141375.9	11205.13	130170.7	137768.9	3.3202
0.4393	12.3317	169.2194	86.7108	7.247	141.3029	8.1044	3.0339	3.7812	11228.46	4744.046	1299.713	1719.705	4229.999	833	11606.99	284.8989	0.9412	111640	139431.9	11891.89	127540	135660.9	3.7175	
1.4167	11.1526	100.1115	86.1155	7.383	148.261	5.831	2.3531	2.658	11672.96	5236.612	1348.636	2487.125	3350.334	848.249	9127.787	440.082	0.8184	119099.9	144567.8	9567.689	134999.9	141487.9	2.6378	
-0.1017	10.0749	220.905	88.1539	7.6449	157.7843	3.555	3.5563	4.5514	12703.05	5729.747	1397.616	2456.442	3663.608	1053.64	10074.92	286.8812	1	108550	134811.8	10361.81	124450	131473.6	4.4749	
1.0875	11.3766	171.2335	86.237	8.6339	146.7969	7.9691	3.0614	3.8218	11391.9	4773.364	1302.625	1954.175	4126.739	833	11348.07	285.0276	0.9975	111593.7	139126.8	11633.1	127493.7	135382.1	3.7582	
-1.6386	9.7778	102.3179	86.7648	8.9339	147.943	4.669	2.2939	2.6897	11514.54	5488.374	1373.642	1741.854	3555.558	953.1076	9777.787	282.6665		1	118633.3	144593.9	10060.45	134533.4	141355.4	2.6621
0.5274	12.1459	131.7109	86.4016	8.1475	151.1478	6.6825	2.6293	3.1844	11827.95	5052.116	1330.312	2032.267	4178.25	833	11466.53	283.5909	0.9441	114890.6	142540.7	11750.12	130790.6	138758.3	3.1387	
-0.0423	11.8094	116.7407	87.7914	7.9462	142.9736	6.2245	2.4741	2.9555	11415.75	5151.349	1340.168	1941.558	3747.68	833	10242.12	283.2224	0.8673	116911.9	143337.3	10525.35	132811.9	139949.1	2.9202	
0.1019	11.5083	111.2292	86.1435	6.0217	158.7986	4.6265	2.3763	2.1515	12723.23	5497.596	1374.558	2307.302	4184.283	956.9486	11508.26	282.7559	1	116839.6	144530.6	11791.02	132739.6	140735.1	2.776	
1.3107	10.3909	160.9468	87.2793	9.8313	137.4097	8.257	3.0602	3.7388	10642.1	4710.979	1296.429	1968.036	3431.655	833	9398.612	392.2693	0.9045	113209.4	138900.3	9790.881	129109.4	135746.8	3.6909	
1.2729	11.4564	153.6861	87.3745	7.3892	156.1633	5.7398	2.8765	3.5491	12490.76	5256.37	1350.656	1465.948	856.481	11456.36	284.4041	1	112966.5	140607.2	11740.76	12989.4	136827.9	3.4929		
0.7135	11.9531	148.2084	87.0666	10.103	145.8643	7.4981	2.839	3.4937	11226.24	4875.417	1312.761	1928.702	3874.362	833	10600.57	284.3976	0.8868	113818.4	140603.4	10884.97	129718.4	137099.5	3.4431	
0.2043	11.8622	152.05	87.3623	7.3327	144.808	7.2647	2.8494	3.5091	11588.93	4925.981	1317.784	1812.421	4297.742	833	11818	284.2658	0.9963	112941.6	140943.8	12102.27	130708.5	137048.1	3.4525	
1.8193	11.151	124.1577	86.3938	9.5793	142.6646	7.3248	2.7617	3.1325	10958.71	4912.967	1316.491	2317.209	3177.049	833	8629.005	610.379	0.7738	116758.2	141897.5	9239.384	132658.2	138923.4	3.1084	
0.232	11.8982	110.2673	87.4624	9.2724	149.7367	5.9098	2.3871	2.8273	11707.92	5219.545	1346.941	2092.286	3806.008	841.1405	10406.08	282.9126	0.8746	117485.2	144074.2	10689	133385.2	140633.4	2.7946	
1.993	11.6789	148.2877	87.4409	7.6493	153.0965	7.0238	2.8123	3.4544	12215.82	4978.184	1322.969	2433.018	4246.648	833	11678.28	284.1635	0.9999	113322.4	141184.9	11962.44	129222.4	137334.2	3.4	
0.0516	10.6086	94.1438	87.367	8.184	150.0182	4.8255	2.1647	2.4992	12274.8	5454.473	1370.275	2251.398	3857.665	938.9878	10608.58	282.149	1	119094.2	145884.9	10890.73	134994.2	142379.2	2.4743	
-0.8216	11.6172	129.3863	88.0395	7.9251	135.2876	8.005	2.6355	3.1934	10838.48	5026.562	1327.774	1576.989	3672.153	833	10033.52	283.7894	0.8637	115784.6	142001.9	10317.31	131684.6	136860.8	3.1529	
-0.1481	11.5775	156.6223	87.9394	9.5528	155.7645	5.4943	2.9046	3.5905	12209.84	5309.568	1355.883	2053.758	4209.996	878.6351	11577.49	284.4795	1	112668.1	140430	11861.97	128568.1	136611.7	3.5326	
-1.075	11.433	160.2466	86.8965	6.6373	152.97	4.706	2.9466	3.6525	12277.25	5480.367	1372.847	1914.804	4157.459	949.7729	11433.02	284.6378	1	112434.3	140051.9	11717.65	128334.3	136280	3.5934	
-2.0254	12.0817	177.6393	87.9364	7.6281	153.0456	4.5511	3.1036	3.8841	12290.83	5513.918	1376.179	1641.634	4393.351	963.7468	12081.72	285.0555	1	110788.3	139055.1	12366.77	126688.3	135074.2	3.8147	
0.7876	10.7461	156.4329	87.8639	9.2405	147.0606	6.8611	2.9247	3.6201	11562.4	5013.435	1326.47	2079.809	3907.688	833	10746.15	284.6627	1	113053.1	139984	11173.08	128953.1	136433.1	3.5653	
-0.3066	12.4892	146.5068	86.7419	6.1415	154.2647	5.6018	2.7719	3.3948	12433.8	5286.273	1353.569	1981.512	4541.51	868.9328	12489.15	283.924	1	113106.7	141779.8	10230.81	129006.7	137668.1	3.3387	
0.3892	11.3736	159.5945	87.4947	9.5169	143.3008	6.7992	2.9414	3.6448	11690.17	5026.829	1327.8	1964.684	4135.854	833	11373.6	284.6291	1	112513.8	140072	11658.23	128413.8	136319.2	3.5862	
0.385	11.3594	168.4311	87.507	6.9591	134.9926	8.1527	3.0501	3.8051	10873.36	4733.581	1298.674	1692.672	3913.435	833	10740.52	285.0804	0.9455	112076.5	139002.1	11025.6	127976.5	135453	3.7452	
0.3017	12.4084	169.8132	87.6689	9.0983	156.9609	6.1282	3.0174	3.7569	12322.5	5172.218	1342.241	2070.887	4512.156	833	12408.43	284.7276	1	111247.6	139840.7	12693.16	127147.6	135754.8	3.6898	
1.0277	11.7437	137.851	86.9242	8.9667	147.1288	7.084	2.7243	3.3245	11469.8	4965.134	1321.672	2112.078	3835.912	833	10499.7	284.0281	0.8941	114782.5	141466.3	10783.72	130682.5	137995	3.2787	
-2.6361	10.0623	155.0034	87.7868	7.5115	149.8164	3.2918	2.9278	3.4626	12026.55	5786.782	1403.281	1698.091	3659.002	1077.395	10062.25	284.7693	1	113475.2	139722.3	10347.02	129375.2	136391.6	3.573	
1.6132	10.363	215.1897	87.9774	8.4533	154.961	5.513	3.4984	4.6461	12321.94	5305.522	1355.481	2613.628	3768.36	876.9501	10363.01	286.6365	1	108817.6	135367.3	10649.65	124717.6	131939.1	4.39	
1.2033	11.7361	156.2305	87.8074	6.8009	143.4936	7.582	2.9049	3.591	11623.93	4857.226	1310.955	2068.646	4152.099	833	11408.55	284.5043	0.9721	112775.6	140368.7	11693.05	128675.6	136604.7	3.5339	
-0.6319	12.3951	172.4886	88.5443	7.7339	153.9724	5.3235	3.0443	3.7966	12442.57	5346.576	1359.558	1933.091	4507.295	894.0488	12395.07	284.8164	1	111046.8	139626.7	12679.88	126948.8	135545.1	3.7283	
1.2648	11.0749	203.8373	87.1832	6.7966	152.8569	6.643	3.3461	4.2418	12287.62	5060.681	1331.162	2276.128	4384.672	833	12057.85	285.8471	1	108915.8	137159.5	12343.7	124815.8	133186.1	4.1612	
-0.2571	12.3796	130.95	87.344	7.848	146.4186	6.6516	2.6172	3.1666	11639.69	5058.823	1330.978	1787.403	4227.483	833	11597.64	283.5351	0.9368	114898.7	142679.8	11881.17	130798.7	138855.3	3.1209	
0.2957	11.9135	148.4773	87.6878	9.9288	155.4426	6.2733	2.8082	3.4484	12087.06	5140.793	1339.119	2039.98	4332.17	833	11913.47	284.1185	1	113200.6	141298.2					

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

0.169	11.8237	179.7868	87.3349	6.458	154.6901	5.2861	3.1319	3.9257	12510.86	5354.678	1360.363	2196.854	4299.541	897.4234	11823.74	285.1866	1	110735.7	138744.6	12108.93	126635.7	134846.7	3.8564
2.1406	10.9484	109.1324	88.2343	6.6595	159.0494	5.0005	2.3609	2.7887	12974.41	5416.566	1366.51	2884.892	3981.247	923.1996	10948.43	282.7661	1	117331.1	144462.3	11231.2	133231.1	140846.9	2.7554
0.6817	11.4213	149.0991	86.8476	7.2843	149.4501	6.5947	2.8277	3.4771	11890.74	5071.144	1332.202	2099.216	4153.182	833	11421.25	284.2486	1	113370.4	140975.9	11705.5	129270.4	137207.9	3.4232
-1.4428	11.6006	87.659	87.8009	9.3655	153.9028	4.679	2.0628	2.349	12072.68	5486.221	1373.428	1802.509	4056.307	952.2112	11139.99	281.7608	0.9603	119538	146859.7	11421.75	135438	143183.1	2.3268
0.9035	11.5569	121.1989	87.5941	7.5762	149.3419	6.269	2.5137	3.014	11950.03	5141.714	1339.211	2235.309	3998.793	833	10976.96	283.2691	0.9498	116116.3	143276.6	11260.23	132016.3	139651.9	2.9747
-0.3408	12.2764	161.1158	87.2954	6.6649	138.8988	7.7531	2.9457	3.6512	11199.48	4820.16	1307.273	1540.333	4296.717	833	11800.71	284.5825	0.9613	112201.7	140187	12085.3	128101.7	136296.8	3.5904
1.5775	12.0579	117.9955	87.0834	7.979	151.8405	6.2584	2.4844	2.9708	12011.25	5144.007	1339.439	2453.122	3839.668	833	10495.56	283.2277	0.8704	116663.6	143342.4	10778.78	132563.6	139872.7	2.9342
-0.2882	11.2293	175.0977	87.0592	8.0357	147.5501	6.2538	3.1032	3.8834	11659.93	5145	1339.537	1857.011	4083.38	833	11229.3	285.1831	1	111344.5	138759	11514.48	127244.5	135052.5	3.8187
0.7397	11.4585	152.9229	86.062	7.6593	148.0587	7.2972	2.8687	3.5376	11608.19	4918.936	1317.084	1977.275	4159.897	833	11439.44	284.381	0.9983	113038.1	140662	11723.82	128938.1	136888.1	3.4819
-0.1704	11.1535	108.5236	86.3435	7.9132	142.3161	6.0536	2.4213	2.8199	11161.89	5188.382	1343.846	1934.733	3459.927	833	9443.686	359.1828	0.8467	118096.2	143799	9802.869	133996.2	140643.5	2.7928
1.1054	10.4511	126.5933	87.4496	9.0069	150.2937	4.935	2.5919	3.1293	11789.43	5430.744	1367.918	1859.256	3800.411	929.1047	10451.13	283.592	1	115851.1	142485.8	10734.72	131751.1	139030.3	3.0888
-1.9839	11.1427	176.8733	86.5972	7.3403	149.6646	4.7418	3.1232	3.9129	11861.96	5472.619	1372.077	1616.815	4051.902	946.5459	1142.74	285.2621	1	111244.8	138572.8	11428	127144.8	134894.1	3.8477
2.1684	12.5879	122.421	86.587	8.227	151.8887	6.5564	2.5512	3.0692	11901.99	5079.452	1333.027	2582.599	3671.912	833	9986.836	283.5115	0.7934	116475.7	142646.1	10270.35	132375.7	139340.1	3.0319
-1.8132	11.3066	162.5516	88.1891	7.8722	149.9614	4.6126	2.9741	3.6929	12044.44	5500.613	1374.858	1697.272	4111.488	958.2052	11306.6	284.7461	1	112302.5	139793.8	11591.34	128202.5	136062.5	3.6333
0.9141	11.0044	126.6843	87.4542	8.3635	145.5711	6.6085	2.5996	3.1407	11513.33	5068.151	1331.904	2170.794	3707.481	833	10164.39	283.6529	0.9237	115979.2	142327.2	10448.05	131879.2	138964	3.1009
-2.007	12.0253	165.8189	87.8922	7.4458	136.9259	7.1306	2.9879	3.7134	11015.19	4955.407	1320.671	1131.635	4372.842	833	12025.32	284.6876	1	111726.8	139936.8	12310	127626.8	135974.2	3.6495
-0.4762	10.8266	162.2617	88.0171	10.1159	142.1914	6.7652	2.6613	3.2317	11075.88	5034.212	1328.533	1694.586	3784.553	833	10393.53	283.8313	0.96	115345.1	141922.5	10677.36	131245.1	138485.5	3.1887
2.2629	11.3573	114.5326	88.6074	7.4878	151.185	6.0679	2.4428	2.9094	12264.07	5185.289	1343.539	2710.636	3789.707	833	10384.77	283.1012	0.9144	117063	143630.8	10667.87	132963	140196.9	2.8747
0.23	10.6386	197.4317	88.9112	8.8375	154.1193	4.8291	3.3327	4.2218	12340.9	5453.693	1370.198	2307.767	3868.581	938.6629	10638.6	286.0369	1	109934.5	136759.1	10924.64	125834.5	133242.4	4.1508
-0.9098	11.9056	170.1796	87.5186	9.5865	146.7382	6.873	3.0352	3.7831	11435.62	5010.84	1326.212	1534.252	4329.313	833	11905.61	284.8591	1	111436	139526.5	12190.47	127336	135602.4	3.7178
-0.1636	11.0396	171.9582	87.2413	5.388	155.7985	4.0676	3.0774	3.8453	12752.62	5614.36	1386.156	2330.129	4014.39	1005.581	11039.57	285.1263	1	111669.4	138894.1	11324.7	127569.4	135248.7	3.7827
-1.3035	11.8991	118.4323	87.4616	9.0858	148.2752	6.0107	2.4629	2.9391	11621.18	5197.692	1344.771	1580.743	4262.971	833	11718.55	283.0158	0.9848	116024.2	143925.8	12001.57	131924.2	140062.5	2.8994
-1.7159	11.1565	153.5123	88.6111	7.1134	150.1318	4.2068	2.8825	3.5579	12235.4	5588.524	1383.589	1809.549	4056.917	994.8203	11156.52	284.4655	1	113115.2	140456.2	11440.99	129015.2	136773.4	3.5029
-1.3745	12.175	116.5836	87.5664	9.3666	151.3365	5.8469	2.4354	2.8987	11834.47	5233.182	1348.296	1590.786	4413.387	846.8201	12136.15	282.879	0.9968	115962.3	144281.3	12419.03	131862.3	140283.6	2.8588
0.8139	10.6717	158.5455	87.9633	7.7345	155.9671	4.8797	2.9492	3.6562	12513.06	5442.741	1369.11	2484.507	3880.6	934.1014	10671.65	284.7547	1	112910.2	139766.6	10956.41	128810.2	136239.7	3.6008
0.4385	11.3393	122.9494	86.3755	7.6142	147.5679	6.3761	2.5381	3.0499	11622.64	5118.511	1336.906	2065.11	3867.109	833	10608.32	283.3934	0.9355	116169	142960.7	10891.71	132069	139454.7	3.0109
0.3377	11.3453	117.9695	87.2113	9.8417	155.5452	5.9418	2.466	2.9436	12034.48	5212.62	1346.253	2119.723	4115.629	838.2561	11317.53	283.0718	0.9975	116265.1	143765.7	11600.61	132165.1	140031.4	2.9051
-1.2515	12.0237	146.883	87.822	8.0395	135.4761	7.3668	2.8131	3.4555	10808.62	4903.86	1315.587	1326.154	4028.015	833	11040.01	284.2519	0.9182	113734	140958.2	11324.27	129634	137133	3.4039
0.8459	11.4708	134.0785	88.3765	7.0784	149.4921	6.1562	2.6569	3.2252	12153.42	5166.154	1341.638	2239.44	4171.183	833	11470.77	283.6811	1	114672	142326.5	11754.45	130572	139542.7	3.1782
-0.138	12.0356	193.9401	87.4011	8.3111	145.1707	7.4396	3.2583	4.1121	11481.56	4888.076	1314.019	1667.897	4376.567	833	12035.56	285.5651	1	109614.2	137835.3	12321.13	125514.2	133869.1	4.0358
0.3858	10.5968	193.0585	86.8538	8.6475	151.9162	5.7655	3.2938	4.1644	11880.8	5250.819	1350.048	2170.375	3853.395	854.1662	10596.84	285.9139	1	110265.7	1370485	10882.75	126165.7	133545.3	4.0952
-0.8255	10.8576	133.9472	88.6759	5.5227	148.7068	4.2942	2.6701	3.0426	12365.45	5569.591	1381.709	2076.988	3948.231	986.9345	10857.64	283.802	1	114971.6	142013	11141.44	130871.6	138426.6	3.1996
-0.2235	10.3498	124.3764	86.6246	7.2818	153.408	4.6757	2.5671	3.2927	12171.83	5486.926	1373.498	2193.349	3763.548	952.5045	10349.76	283.5214	1	116111.8	142645.1	10633.28	132011.8	139222.2	3.0536
0.8371	11.4586	169.397	87.921	6.692	146.0044	6.8098	3.0399	3.179	11859.79	5024.541	1327.573	2105.913	4166.765	833	11458.61	284.9403	1	111690.1	139333.6	11743.55	127590.1	135553.4	3.7268
-0.6172	12.868	131.9004	86.946	7.4829	158.1784	5.4179	2.598	3.385	12569.35	5326.124	1357.527	1918.914	4679.258	885.5306	12867.96	283.3172	1	114211.6	143262.9	11315.28	130111.6	139025.9	3.0889
0.3278	12.1117	139.3252	87.5387	9.1397	150.0778	6.9096	2.7102	3.3038	11765.94	5002.91	1325.425	1922.978	4279.629	833	11758.38	283.8192	0.9708	114066.8	142009	12042.2	129966.8	138132.6	3.2535
-0.0186	10.877	168.8401	86.3515	7.8914	149.6447	5.9776	3.0505	3.8068	11741.15	5204.852	1345.482	1998.521	3955.271	835.0206	10877	285.0614	1	111985.1	139047.2	11162.06	127885.1	135454.1	3.745
-0.8366	11.2297	132.2139	88.7243	8.0644	143.3865	6.0691	2.6408	3.2015	11565.54	5185.032	1343.513	1718.468	4083.528	833	11229.71	283.6584	1	114956	142369.3	11513.37	130856	138663.2	3.1561
-0.4953	10.5045	154.8909	86.9635	8.4485	146.7659	5.8448	2.9146	3.6051	11523.32	5233.62	1348.339	1872.544	3819.818	847.0027	10504.5	284.6628	1	113290.1	139979.3	10789.16	129190.1	136503.3	3.5519
-0.4897	13.1791	136.5836	87.0254	7.7183	153.6316	6.5183	2.6445	3.2007	12184.07	5087.693	1333.845	1739.628	4787.908	833	13166.59	283.4286	0.999	113653.7	143003.7	13450.02	129553.7	138674.2	3.1541
-1.6807	11.7332	164.2663	86.1673	8.5284	145.4552	6.4925	2.9801	3.1701	11292.99	5093.291	1334.401	1363.66	4266.633	833	11733.25	284.7044	1	111977.8	139895.7	12017.95	127877.8	136027.2	3.6398
0.2209	11.2275	130.7857	86.402	7.4388	144.5351	6.7091	2.6382	3.1975	11412.95	5046.357	1329.474	1928.855	3873.002	833	10630.18	283.7243	0.9468	115371	142184.9	10913.91	131271	1386	

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

-0.2906	10.7926	150.2511	88.7597	7.806	155.6836	4.1235	2.8566	3.5196	12603.17	5606.568	1385.382	2282.29	3924.597	1002.336	10792.64	284.4297	1	113555.6	140532.7	11077.07	129455.6	136967	3.4674
0.4458	11.0903	128.946	87.7404	8.7274	155.4888	5.3752	2.6	3.1412	12285.64	5335.363	1358.445	2267.612	4032.843	889.3788	11090.33	283.5408	1	115367	142640.8	11373.87	131267	138979.6	3.0981
-0.2179	12.7929	179.7756	88.2016	6.6049	147.3722	6.7694	3.1036	3.8841	12025.09	5033.291	1328.442	1776.383	4651.972	833	12792.93	284.9477	1	110327.3	139305.1	13078.88	126227.3	135095.4	3.8108
-0.749	10.4246	149.1943	87.7826	6.6602	139.7837	5.9839	2.8545	3.5165	11339.58	5203.493	1345.347	1763.538	3790.747	834.4548	10424.56	284.4731	1	113812.7	140421.7	10709.03	129712.7	136974.4	3.466
0.5586	11.777	166.3276	88.1997	6.6822	150.6658	5.9231	2.9999	3.7311	12281.9	5216.662	1346.655	2194.119	4282.529	839.9398	11776.96	284.7629	1	111794.6	139756.3	12061.72	126794.6	135873.6	3.668
-0.2772	11.5098	137.3633	87.8329	9.0798	141.1559	7.0192	2.7158	3.3121	11116.46	4979.182	1323.068	1707.48	3871.735	833	10613.89	283.9852	0.9222	114773.7	141571.6	10897.87	130673.7	138063.6	3.2662
-0.2293	11.3509	146.876	87.5993	8.842	151.5634	5.8061	2.8051	3.4437	11936.72	5242.018	1349.173	1965.514	4127.618	850.5005	11350.95	284.1837	1	115953.2	141128.4	11635.13	129493.2	137383	3.391
0.8382	11.7908	137.6817	87.417	8.9581	148.8368	6.9585	2.7073	3.2995	11677.57	4992.315	1324.372	2076.509	4049.373	833	11111.99	283.8928	0.9424	114513.5	141809.4	11395.88	130413.5	138141	3.2519
-0.093	12.7198	146.6431	87.8146	8.2887	152.2849	6.6049	2.7674	3.3884	12110.6	5068.947	1331.93	1849.278	4625.391	833	12718.33	283.8793	1	112989.9	141893.6	13003.71	128889.9	137077.8	3.3315
-0.1923	10.7671	140.3076	87.0899	9.1814	139.0306	7.19	2.7658	3.3857	10831.66	4942.158	1319.39	1700.454	3634.657	833	9965.711	284.2372	0.9256	114807.3	140957.2	12049.95	130707.3	137657.8	3.3406
-2.1005	12.1042	141.9913	88.2229	10.621	151.2343	5.571	2.7316	3.3355	11736.07	5292.959	1354.233	1413.644	4401.512	871.7176	12104.16	283.8443	1	113672.5	141960.5	12388	129572.5	137972.8	3.2828
3.1959	10.9996	172.9401	87.7645	9.3766	152.7645	7.8889	3.0883	3.8614	11974.88	4790.741	1304.351	2644.92	3999.87	833	10999.64	285.1685	1	111609.8	138794.6	11284.81	127509.8	135162	3.7986
0.7113	10.2108	128.6441	87.3121	9.6473	150.7888	6.022	2.6223	3.1741	11710.99	5195.223	1344.526	2223.204	3713.034	833	10210.85	283.7234	1	115770.8	142165.3	10494.57	131670.8	138787.1	3.1334
-0.3415	12.0344	129.2578	87.4656	7.5468	142.4263	6.6669	2.6119	3.1588	11382.54	5055.511	1330.649	1757.351	4004.033	833	10970.45	283.595	0.9116	115352.7	142506.7	11254.04	131252.7	138884	3.1156
-0.7555	11.4062	146.4346	88.3185	9.0597	150.7349	5.5059	2.7988	3.4344	11947.06	5307.062	1355.634	1857.062	4147.708	877.5913	11406.2	284.1556	1	113606.2	141196.6	11690.35	129506.2	137433.5	3.3818
-0.6313	12.0661	143.1431	86.8946	9.4437	143.7195	7.2443	2.7669	3.3875	11131.2	4930.395	1318.222	1549.112	4098.471	833	11212.96	284.0765	0.8856	113981.3	141378.3	11497.04	129881.3	137677.4	3.337
-0.2287	11.8663	165.8366	86.5	8.4843	150.15	6.6252	2.9941	3.2725	11714.06	5058.62	1330.958	1796.298	4293.181	833	11806.25	284.7397	1	111820.8	139811.8	12090.99	127720.8	135917.9	3.6596
1.5308	11.9985	138.1302	87.7058	8.3678	144.2096	7.1873	2.738	3.3447	11441.3	4942.759	1319.45	2252.4	3691.922	833	10071.59	284.1297	0.8394	114955.7	141211.4	10355.72	130855.7	137877.9	3.3002
-0.0613	11.5528	133.3642	88.9438	8.1204	151.908	5.4014	2.6466	3.211	12277.73	5329.698	1357.882	2100.11	4201.018	887.0193	11552.8	283.637	1	114698.6	142435	11836.44	130598.6	138624.9	3.1632
2.0619	11.818	183.5782	86.8385	6.5576	144.9504	8.4205	3.1716	3.9843	11636.74	4675.558	1292.911	2175.696	4257.577	833	11705.78	283.3447	0.9905	110502.2	138393.3	11991.12	126402.2	134533.4	3.9139
0.1892	11.2353	94.4561	87.8082	7.7408	150.8538	5.1164	2.1742	2.5132	12078.47	5391.456	1364.016	2237.28	3770.974	912.7415	10336.49	282.2072	0.92	119201	145719.7	10618.7	135101	1422301.5	2.4885
0.4598	12.2356	178.4097	86.6243	8.1702	150.022	7.3844	3.1066	3.8885	11769.85	4900.055	1315.209	1870.267	4449.322	833	12235.64	285.0419	1	110665.1	139085.7	12520.68	126565.1	135055.3	3.8182
0.4369	12.3308	117.3355	88.0646	8.2259	138.2933	6.6553	2.5707	2.9932	11041.16	5058.019	1330.898	2008.753	3408.49	833	9241.161	421.7188	0.7494	117254.4	142871.3	9662.88	133154.4	139706.8	2.9646
-0.0574	12.9817	186.443	86.7643	9.2483	157.7654	6.5771	3.1608	3.9685	12229.34	5074.957	1332.58	1866.192	4720.611	833	12694.58	285.1021	1	109760	138926.8	13266.78	125660	134656.2	3.8914
0.7817	10.7786	129.9235	87.2083	5.0276	145.4353	5.9955	2.6244	3.1772	11951.99	5200.966	1345.096	2251.03	3919.493	833.4022	10778.61	283.66	1	115381.3	142343.6	11062.27	131281.3	138782.7	3.1342
0.054	11.4812	186.1037	85.2278	8.5563	140.0166	8.6181	3.2097	4.0405	10735.28	4632.734	1288.657	1493.66	4085.227	833	11227.25	285.5345	0.9779	110514.8	137927.6	11512.78	126414.8	134221.6	3.9711
0.4545	12.8267	144.9317	86.7119	10.1726	136.7439	7.945	2.9223	3.4845	10466.28	4778.591	1303.144	1756.453	3393.091	833	9175.672	459.0209	0.7154	114650.9	140185.6	9634.693	130050.9	137084.2	3.4459
0.7828	11.6171	139.2007	87.9906	8.7892	155.2657	5.9198	2.7123	3.3069	12297.26	5217.376	1346.726	2266.532	4224.384	840.2371	11617.06	283.8442	1	114143.3	141944.2	11900.9	130543.3	138113.3	3.257
-1.287	12.0672	173.3398	86.7486	6.7942	157.6706	4.391	3.062	3.8227	12806.46	5548.61	1379.625	1909.968	4388.064	978.1959	12067.18	284.9224	1	111122	139374.1	12352.1	127022	135398	3.7553
-0.2475	11.398	155.9598	85.7116	5.2725	153.444	5.0588	2.9023	3.5872	12342.89	5403.927	1365.255	2109.044	4144.731	917.9354	11398.01	284.4972	1	112802.8	140385.3	11682.51	128702.8	136624.7	3.5302
-0.5992	11.6921	119.5871	85.8158	7.4882	152.5615	5.7921	2.4778	2.9611	11949.79	5245.046	1349.474	1849.848	4251.663	851.7616	11692.07	283.0676	1	115925.2	143800.4	11975.14	131825.2	139946.5	2.9208
-0.264	12.6945	178.3882	86.1797	8.3336	151.7789	7.1327	3.0931	3.8687	11815.39	4954.587	1320.625	1688.981	4616.197	833	12694.55	284.9291	1	110472.2	139351.7	12979.48	126372.2	135173.6	3.7965
2.376	10.9716	207.4966	87.431	7.2141	148.1193	7.4795	3.4124	3.9393	11881.67	4879.434	1313.16	2464.397	3989.673	833	10971.6	286.2548	1	109098.7	136256.5	11257.85	124998.7	132632.6	4.2627
-0.4619	11.5904	109.2425	86.7441	7.7606	152.089	5.6069	2.3514	2.7747	12012.53	5285.182	1353.461	1930.833	4172.577	868.4782	11471.84	282.6781	0.9898	117058.5	144713	11754.52	132958.5	140929.2	2.7403
-0.5891	11.4426	144.9975	87.4053	6.3134	151.0365	5.0625	2.7819	3.4095	12247.85	5403.134	1365.176	1998.997	4160.934	917.6052	11442.57	284.0953	1	113714.2	141340.9	11726.67	129614.2	137566	3.3575
0.6994	11.4377	121.6687	87.6148	8.3278	138.8535	6.8486	2.635	3.0751	11009.26	5016.142	1326.739	2054.079	3377.304	833	9192.087	439.0672	0.8037	1168362	142367.4	9631.155	132736.2	139267.1	3.0453
0.412	11.4734	124.8741	88.4277	11.2999	153.2495	7.4371	2.787	3.1476	10431.5	4888.62	1314.073	1844.417	3149.39	833	8535.173	639.7887	0.7439	116715.3	141790.3	9174.961	132615.3	138836.9	3.1243
-0.2422	11.4804	161.2125	88.1648	9.034	146.8675	6.583	2.9554	3.6655	11621.74	5073.683	1332.454	1805.905	4174.696	833	11480.42	284.6599	1	112334.8	139999.8	11765.08	128234.8	136212.7	3.6058
-0.431	10.9652	147.4643	88.3936	9.6933	150.0835	5.6552	2.8214	3.4678	11811.62	5274.703	1352.42	1931.035	3987.35	864.114	10965.21	284.2897	1	113717.6	140867.1	11249.5	129617.6	137245.9	3.4162
0.1812	12.2058	127.611	87.0536	7.6241	146.1277	6.5995	2.5905	3.1272	11606.86	5070.106	1332.099	1938.089	4031.565	833	11041.72	283.5154	0.9046	115473.2	142698.5	11325.24	131373.2	139052.9	3.0846
-0.1031	11.1312	123.6611	86.3521	8.2861	135.7766	7.0434	2.6907	3.1155	10599.54	4973.927	1322.546	1758.318	3309.754	833	9011.874	494.5051	0.8096	116693.3	142099.7	9506.379	132593.3	139039.6	3.0871
-0.1299	11.0093	141.8709	86.4489	8.9324	148.5142	6.5238	2.7577	3.3738	11512.31	5086.519	1333.729	1853.674	4003.392	833	11009.33	284.0727	1	114187	141380.4	11293.4	130087	137745.1	3.32

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

0.7236	11.6404	118.0663	85.8854	7.7077	155.7157	6.0159	2.464	2.9408	12173.51	5196.561	1344.658	2228.371	4168.916	833	11459.88	283.0492	0.9845	116186.1	143829	11742.93	132086.1	140049	2.9019
-0.554	12.5317	161.7137	87.1542	9.0934	151.8252	6.7032	2.932	3.631	11851.6	5047.65	1329.868	1682.081	4556.997	833	12531.75	284.4344	1	111831.9	140548.1	12816.18	127731.9	136422.6	3.5673
-0.2763	11.5333	166.1517	87.7686	6.8364	149.9224	5.5306	3.0049	3.7384	12133.55	5301.705	1355.102	2055.453	4193.93	875.3601	11533.31	284.8145	1	11914.5	139632.6	11818.12	127814.5	135828.3	3.6763
-0.8675	11.8992	137.1622	86.6775	8.9526	143.5129	6.9425	2.7003	3.2893	11154.53	4995.787	1324.711	1533.902	4065.121	833	11152.44	283.8646	0.9372	114541.5	141877.8	11436.3	130441.5	138196.4	3.2418
-0.5266	10.6243	116.2764	87.8454	7.733	148.5759	5.1902	2.4599	2.9345	11902.77	5375.448	1362.426	1993.448	3863.373	906.0739	10624.28	283.1309	1	116771.1	143578.5	10907.41	132671.1	140067.4	2.8985
0.4067	11.7309	119.0301	87.0608	8.7569	150.0947	6.2278	2.4905	2.9798	11753	5150.652	1340.099	2084.589	3942.86	833	10807.85	283.2118	0.9213	116409.7	143400.7	11091.06	132309.7	139830.5	2.9419
0.7708	10.2029	97.2331	88.2182	8.6307	137.0461	6.2359	2.4621	3.116	10907.17	5148.884	1339.923	2199.468	2983.892	833	11816.78	705.3315	0.7955	119765.3	144487.4	8822.119	135665.3	141647.6	2.6085
0.0724	10.4302	123.5179	87.3751	9.1299	150.0571	4.3924	2.5793	2.6108	12445.46	5548.309	1379.595	2344.693	3792.791	978.0708	10430.18	283.5523	1	115963.7	142577.5	10713.73	131866.3	139128.7	3.0707
-0.0171	11.0827	132.7102	86.7168	8.0966	149.9847	6.0291	2.6502	3.2153	11791.83	5193.686	1344.373	1988.71	4030.056	833	11082.66	283.7077	1	114979.5	142245.9	11366.36	130879.5	138587.1	3.1701
-1.4278	10.5225	126.6759	87.7199	9.3074	153.0253	4.3922	2.591	3.128	11999.1	5548.364	1379.601	1864.665	3826.373	978.0935	10522.53	283.5804	1	115810.9	142517	10806.11	131710.9	139038.5	3.0873
-1.4412	12.9553	139.6704	87.4463	7.9642	154.6597	5.5026	2.6844	3.266	12292.69	5307.778	1355.705	1638.301	4711.014	877.8894	12955.29	283.5828	1	113481.6	142620.5	13238.87	129381.6	138358.9	3.212
-1.0785	10.2545	131.8874	87.1187	8.4474	146.9247	6.515	2.6196	3.1702	11558.76	5088.42	1333.918	1551.89	4349.532	833	11959.14	283.4984	0.9921	114642	142784.6	12242.64	130542	138843.7	3.123
-0.4006	12.6671	120.8179	88.2388	8.2949	149.9703	6.1559	2.4839	2.9701	11989.21	5166.216	1341.644	1840.63	4405.716	833	12096.79	283.0407	0.955	115610.3	143890.1	12379.83	131510.3	139905	2.9283
-0.6136	12.0834	183.2011	85.1098	8.5363	144.2686	8.1234	3.1569	3.9627	11047.15	4739.927	1299.304	1378.973	4393.949	833	12083.36	285.2284	1	110372.1	138640.7	12368.59	126272.1	134659.2	3.8908
1.0971	11.7787	141.5109	88.4218	9.2789	146.5411	7.1579	2.7565	3.3722	11597.69	4949.128	1320.083	2119.495	3973.985	833	10895.8	284.0835	0.925	114272.1	141351	11179.89	130171.2	137752.2	3.3233
-0.5963	10.9873	180.5706	87.7148	7.7647	154.6256	4.5281	3.1638	3.9727	12362.33	5518.908	1376.675	2103.559	3995.366	965.8252	10987.26	285.4201	1	111028.8	138201.5	11272.68	126928.8	134572.8	3.9067
-1.5568	11.0676	170.2535	86.0894	9.3031	150.3307	5.5516	3.0595	3.8189	11543.33	5297.153	1354.65	1591.492	4024.57	873.4643	11067.57	285.0628	1	111791.2	139043.8	11352.63	127691.2	135389.4	3.7569
1.6156	11.7991	110.9294	87.4567	8.8287	154.4111	5.9323	2.3955	2.8397	12141.04	5214.665	1346.457	2530.542	3808.267	839.1078	10417.35	282.9395	0.8829	117411.9	144012.2	10700.28	133311.9	140567.8	2.8067
-1.4652	10.8004	118.198	87.9068	7.8123	154.6795	3.823	2.4803	2.9646	12388.98	5671.693	1391.85	1966.544	3927.429	1029.46	10800.43	283.1785	1	116494.9	143478.6	11083.61	132394.9	139910.7	2.9272
0.7393	9.9865	115.3621	85.8254	7.574	148.1279	6.0149	2.4651	2.9423	11591.22	5196.782	1344.68	2233.611	3581.15	833	9844.59	283.2378	0.9858	117244.8	143272.7	10127.83	133144.8	140012.5	2.9085
-0.1592	11.0469	84.9758	87.1487	7.7372	148.6025	4.8479	2.0841	2.3236	11800.75	5449.614	1369.792	2179.473	3462.908	936.9634	9457.391	345.0342	0.8561	120695.2	146397.6	9802.425	136595.2	143242.2	2.3159
0.352	11.4235	186.7499	87.6876	8.3506	146.3023	7.0029	3.21	4.0409	11607.18	4982.696	1323.417	1912.057	4154.013	833	11423.54	285.5046	1	110385.7	137994.7	11709.04	126285.7	134225.6	3.9704
0.708	12.5452	160.4402	87.4757	6.0778	145.3321	7.5736	2.9223	3.6167	11829.72	4859.06	1311.137	1911.853	4512.669	833	12406.56	284.4207	0.9889	111989.3	140580.3	12690.98	127889.3	136495.1	3.554
-1.8172	10.5639	151.308	86.2837	8.0937	144.4386	5.5199	2.8741	3.5455	11293.65	5304.03	1355.333	1514.521	3841.432	876.3287	10563.94	284.5195	1	113568	140316.5	10848.46	129468	136824.4	3.4935
-0.9245	11.4756	145.3648	87.3418	7.6113	156.8966	4.387	2.7851	3.4143	12509.45	5549.479	1379.711	2026.751	4172.947	978.5579	11475.61	284.1015	1	113667.2	141326.9	11759.71	129567.2	137541.5	3.362
1.1499	11.7644	99.8076	87.3774	7.4134	151.2356	5.4608	2.2552	2.6327	12093.4	5316.819	1356.603	2475.798	3660.528	881.6552	9992.928	282.5138	0.8494	118793.8	144969.3	10275.44	134693.8	141661.6	2.6059
-0.2345	12.3592	145.6403	87.9104	6.9661	153.3596	5.5943	2.7657	3.3857	12413.58	5287.898	1353.73	2006.099	4494.248	869.6094	12359.18	283.9212	1	113240	141783.2	12643.11	129140	137713.3	3.3304
-0.2997	12.2285	101.2862	86.2706	8.7242	146.7223	6.5742	2.3034	2.6734	11377.79	5270.6	1352.012	1969.276	3521.498	862.407	9570.544	322.0108	0.7826	118823.8	144616.4	9892.554	134723.8	141432	2.6481
2.1246	10.3951	149.7892	86.5577	8.6201	152.8039	6.7548	2.8616	3.527	11909.18	5036.468	1328.758	2528.925	3780.032	833	10395.09	284.5009	1	113776.3	140355.9	10679.59	129676.3	136918.1	3.4763
-0.3229	11.9752	99.2913	87.2974	9.0526	143.2884	5.7541	2.3236	2.639	12111.57	5253.286	1350.293	1945.863	3404.938	855.1935	9246.858	407.5853	0.7722	119149.5	144703.9	9654.444	135049.5	141596.2	2.618
2.3777	10.9255	111.456	86.412	6.1635	155.3548	5.8411	2.3995	2.8455	12466.98	5234.424	1348.419	2792.65	3842.148	847.3374	10554.36	282.9375	0.966	117290.2	144027.5	10837.3	133190.2	140539	2.8119
1.1223	11.2133	118.4159	86.6926	8.2181	151.2079	6.2523	2.4921	2.9865	11865.96	5145.332	1339.57	2404.9	3741.161	833	10251.67	283.2917	0.9142	116740.9	143175.8	10534.96	132645.0	139784.6	2.9504
2.2125	11.9398	199.5849	86.5835	8.189	148.5569	8.7009	3.3122	4.1916	11646.04	4614.805	1286.877	2167.832	4341.527	833	11939.2	285.7561	0.9999	109256.8	137381.7	12224.95	125156.8	133446.5	4.1134
0.4424	10.7809	157.3439	89.325	9.0312	147.333	6.0274	2.9335	3.6331	11829.93	5194.074	1344.411	2136.107	3920.337	833	10780.93	284.687	1	112961.7	139927.3	11065.62	128861.7	136365.3	3.5778
-1.1006	10.1073	172.2722	87.9745	7.4191	149.8054	4.7694	3.0825	3.8528	12067.64	5466.621	1371.482	1893.933	3989.561	944.0476	10971.31	285.1533	1	111674.1	138830.6	11256.46	127574.1	135207.1	3.7903
-2.7875	11.4904	177.6193	86.8349	8.2488	142.4072	5.7636	3.1205	3.9089	11191.23	5251.211	1350.086	1155.286	4178.314	854.3294	11490.37	285.2003	1	111040.5	138716.1	11775.57	126940.5	134925.5	3.842
0.4888	10.9309	132.1779	87.0866	8.4335	153.873	6.538	2.6475	3.3121	12102.59	5278.444	1352.791	2228.82	3974.861	865.6719	10930.87	283.7179	1	115100	142214.6	11214.59	131000	136860.4	3.1689
0.2906	11.6059	198.4578	86.4837	9.055	152.8093	6.5967	3.3123	4.1918	11831.83	5070.708	1332.158	1973.632	4220.334	833	11605.92	285.811	1	109470.3	137262	11891.73	125370.3	133434.1	4.1156
-1.6621	10.4557	120.173	87.0422	7.716	149.6503	4.7295	2.5127	3.0124	11721.53	5475.268	1372.341	1722.207	3802.068	947.6491	10455.69	283.3266	1	116468.8	143107.8	10739.01	132368.8	139650.9	2.9749
-0.0346	11.5626	133.8502	86.8302	7.7312	153.376	5.9067	2.6448	3.2074	12131.9	5220.219	1347.008	2007.586	4313.663	841.4212	11862.58	283.5925	1	114508.9	142555.1	12146.17	130408.9	138645.2	3.1594
0.5124	12.5642	151.9083	87.7828	8.3142	153.8872	6.6472	2.8283	3.4781	12229.2	5059.78	1331.073	2034.544	4568.802	833	12564.21	284.096	1	112617.7	141366.1	12848.31	128517.7	137230.2	3.4191
1.0936	11.2576	153.3982	87.8677	9.1791	157.9715	5.9062	2.8786	3.5522	12273.17	5220.317	1347.018	2368.704	4093.671	841.4621	11257.6	284.4387	1	113079.6	140521.6				

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

-2.2097	10.8184	138.1701	86.149	7.3126	148.4565	4.6812	2.7202	3.3184	11703.77	5485.744	1373.381	1556.655	3933.974	952.0125	10818.43	283.9731	1	114605.8	141608.2	11102.4	130505.8	138034.3	3.2715
-0.2771	12.5867	132.3932	86.6704	7.441	154.2861	6.1012	2.6105	3.1569	12223.99	5178.074	1342.822	1891.099	4576.998	833	12586.75	283.9916	1	114299.9	143070	12870.14	130199.9	138927.1	3.0777
-0.6307	10.2241	191.1142	86.9057	8.417	155.8627	4.226	3.2869	4.1541	12233.46	5584.366	1383.176	2152.988	3717.844	993.0886	10224.07	285.9511	1	110560.1	136970.1	10510.02	126460.1	133587	4.1076
0.0778	12.0949	124.3987	86.1157	8.3282	157.1757	5.956	2.5275	3.0344	12226.3	5209.543	1345.948	2033.702	4398.132	836.9745	12094.86	283.1824	1	115271.5	143549.5	12378.05	131171.5	139565	2.9907
0.541	11.2205	139.1058	89.0821	7.1349	152.3542	5.1452	2.721	3.3197	12484.99	5385.209	1363.996	2344.077	4080.17	910.1394	11220.48	283.924	1	114335.5	141739.9	11504.4	130235.5	138036.6	3.2711
0.1167	10.7897	198.3213	87.413	6.7806	147.9735	5.6393	3.3662	4.227	11931.46	5278.142	1352.761	2109.485	3923.526	865.5463	10789.7	286.0235	1	109810.1	136785.8	11075.72	125710.1	133220.6	4.1548
-0.7878	10.7351	114.2204	85.8794	11.2237	142.0134	6.5523	2.5605	2.938	10602.12	5080.344	1333.115	1637.456	3316.203	833	9049.248	474.9191	0.843	117630.6	143054.8	9524.167	133503.6	139989	2.9129
-0.6285	10.503	156.1558	87.9691	8.5308	149.3915	5.112	2.9282	3.2523	11867.4	5392.404	1364.111	1976.498	3819.257	913.1361	10502.96	284.7086	1	113184.4	139872	10787.67	129084.4	136399.5	3.5715
-0.9316	11.2716	146.7596	88.3144	8.8585	145.7446	6.0009	2.8058	3.4448	11580.27	5199.811	1344.981	1701.707	4098.767	833	11271.61	284.1967	1	113639.4	141095.2	11555.81	129539.4	137375.4	3.3924
0.3377	11.9821	157.6287	86.0078	8.6614	153.8963	7.0002	2.9044	3.5903	11903.32	5030.959	1328.21	1952.031	4357.123	833	11982.09	284.4223	1	112405.5	140572.1	12266.51	128305.5	136623.5	3.5304
-0.3469	11.9432	123.2078	88.0318	6.5781	151.0145	5.4536	2.5165	3.0182	12300.68	5318.386	1356.758	1998.266	4342.964	882.3076	11943.16	283.1647	1	115457	143583.4	12226.32	131357	139647.7	2.9755
0.1922	11.7758	110.9401	86.5919	9.291	149.0771	5.987	2.4037	2.8517	11523.79	5202.824	1345.28	2064.116	3675.391	834.176	10035.25	283.0093	0.8522	117600.5	143818.7	10318.26	133505	140497.3	2.8196
0.1952	11.8839	178.8099	87.6359	10.5119	149.1086	7.5154	3.1207	3.9092	11499.85	4871.66	1312.388	1759.377	4321.426	833	11883.92	285.141	1	110783.8	138852.8	12169.06	126683.8	134935.6	3.8401
-1.2339	10.5879	111.486	88.3518	10.7386	136.8773	6.3037	2.4972	2.8821	10623.48	5134.209	1338.465	1544.406	3371.403	833	9215.505	425.1211	0.8704	117860.4	143401	9640.626	133760.4	140297.7	2.8562
-1.8271	11.5511	114.6349	86.5311	7.1738	155.5955	4.1986	2.4189	2.8742	12347.64	5590.311	1383.767	1775.601	4200.396	995.5647	11551.09	282.8907	1	116478.6	144212.6	11833.98	132378.6	140403.2	2.8368
-0.3219	10.6358	151.9206	87.5743	10.6274	149.5825	6.079	2.8789	3.5526	11509.91	5182.877	1343.299	1881.191	3867.547	833	10635.76	284.5256	1	113483.5	140303.7	10920.28	129038.5	136788.5	3.5001
-1.5022	11.4793	154.4909	84.7577	7.2028	136.197	7.6178	2.8997	3.5832	10562.74	4849.487	1310.186	1195.731	3972.338	833	10904.39	284.5574	0.9499	113145.6	140234.5	11188.95	129453.5	136623.8	3.5287
1.1785	10.9991	170.1378	87.7084	8.4792	156.4564	5.5475	3.0602	3.32	12395.92	5298.047	1354.738	2467.611	3999.688	873.8367	10999.14	285.0755	1	111829.8	139014	1184.22	127729.8	135381.6	3.7583
-0.0339	12.6163	145.4803	87.3065	6.8357	157.8629	5.482	2.7523	3.366	12703.36	5312.231	1356.147	2092.765	4660.469	879.7441	12816.29	283.818	1	113044.8	142044.9	13100.11	128944.9	137828	3.3094
-0.034	12.1339	88.879	87.6925	9.6937	154.3644	4.9171	2.0992	2.4027	12040.25	5434.633	1368.304	2205.716	3698.87	930.7244	10085.83	281.9797	0.8312	119956.2	146224	10367.81	135856.2	142886.6	2.3812
-0.2428	11.5347	132.7088	87.5541	6.5384	147.701	5.8688	2.6393	3.1993	11966.1	5228.437	1347.825	1944.441	844.8442	11534.71	833	1283.6156	1	114766.9	142485.3	11818.33	130666.9	138681	3.1529
0.3563	11.3352	241.9512	87.2778	9.1149	154.2653	5.9206	3.6838	4.7396	12057.82	5217.194	1346.708	2129.879	4121.878	840.1615	11335.18	287.0775	1	106750.7	134272.9	11622.26	122650.7	130531.7	4.6482
0.4333	11.5891	102.0564	86.3943	8.1947	150.2331	5.5803	2.2889	2.6823	11748.16	5290.945	1354.033	2222.613	3607.695	870.8785	9848.96	282.6422	0.8498	118625.3	144656.9	10131.6	134525.3	141395.5	2.6548
-0.6314	11.6698	150.2433	86.5516	7.8705	137.6124	7.5223	2.858	3.5217	10827.48	4870.172	1312.24	1493.481	3916.592	833	10735.61	284.4422	0.9199	113582	140502.1	11020.05	129482	136954.7	3.4696
-0.0614	11.0261	171.4369	86.609	6.4605	146.4143	5.9964	3.0725	3.8381	11771.77	5200.788	1345.078	1981.094	4009.486	833.3283	11026.09	285.1122	1	111716	138927.2	11311.2	127616	135286.2	3.7758
-0.063	11.6751	161.2654	87.4544	8.3135	147.5974	6.7402	2.9507	3.6585	11680.99	5039.623	1329.071	1831.815	4245.486	833	11675.09	284.6166	1	112244.9	140104.6	11959.71	128144.9	136254.8	3.5981
0.7326	10.0118	164.9683	88.3657	8.3228	148.643	5.5407	3.0308	3.7764	11897.81	5299.52	1354.885	2326.291	3640.667	874.4501	10011.84	285.1232	1	112701.6	138898.6	10296.96	128601.6	135584	3.7212
2.1876	11.5896	110.9485	89.1962	8.4241	148.1292	6.09	2.4278	2.8639	11964.7	5180.5	1343.063	2682.043	3524.096	833	9607.89	313.8087	0.829	117792	143613.7	9921.699	133692	140419.9	2.8338
0.6128	10.9535	157.4093	86.9152	7.447	154.6237	5.3784	2.9296	3.6273	12287.66	5334.685	1358.377	2320.416	3983.086	889.0961	10953.49	284.6496	1	112879.8	140017.9	11238.14	128779.8	136400.4	3.5713
0.2001	12.199	145.0257	86.899	6.7341	152.6016	6.1074	2.763	3.3817	12232.97	5176.73	1342.689	2402.564	4435.991	833	12198.98	283.9336	1	113366	141749	12482.91	129266	137730.7	3.3272
-0.1165	11.9344	168.623	86.3845	7.1412	152.3559	6.0212	3.0187	3.7589	12073.19	5195.397	1344.543	1958.466	4339.782	833	11934.4	284.8014	1	111545.3	139664.5	12219.2	127445.5	135731.1	3.6942
-0.3412	12.1476	100.8139	86.982	9.9095	154.9344	5.4168	2.2523	2.6284	11941.18	5326.361	1357.551	2007.442	3962.198	885.6295	10844.55	282.4167	0.8927	118251	145278	11126.96	134151	141696.2	2.5996
-0.2026	11.4832	206.206	87.9724	7.6194	144.0861	6.7146	3.3849	4.2829	11577.75	5045.172	1329.622	1792.24	4175.718	833	11483.23	286.0694	1	108983.5	136652.8	11769.3	124883.5	132864.3	4.2202
-1.6235	11.4818	135.9973	88.0388	10.1783	142.6131	6.7056	2.6804	3.2599	11103.93	5047.114	1329.815	1339.347	4152.657	833	11418.55	283.765	0.9945	114522.6	142124.9	11702.32	130422.6	138357.9	3.2122
1.5421	10.4654	133.3456	87.9939	9.6155	149.4346	6.7317	2.6504	3.2526	11712.44	5041.456	1329.253	2347.109	3759.626	833	10335.82	283.8861	0.9876	115271.1	141791.4	10619.71	131171.7	138372.9	3.2094
-1.2277	11.2007	156.2198	86.6554	9.3293	152.534	5.3666	2.9104	3.599	11794.85	5337.245	1358.632	1733.829	4072.982	890.1625	11200.7	284.5512	1	112868.9	140254.2	11485.25	128768.9	136557.1	3.5426
1.0217	11.3578	129.5103	87.3738	7.271	150.4097	6.4098	2.6063	3.1566	12048.25	5111.199	1336.18	2243.37	4122.498	833	11336.55	283.5315	0.9981	115155.5	142675.6	11620.08	131055.5	138935.1	3.1063
-0.0125	11.4365	172.6418	88.7259	7.4319	154.0151	4.8915	3.073	3.8388	12520.5	5440.186	1368.856	2217.699	4158.718	933.0373	11436.48	285.0524	1	111446	139067.6	11721.53	127346	135294.4	3.7743
0.0362	11.1637	203.3431	86.1771	5.9001	137.8909	7.7838	3.3697	4.2764	11089.47	4813.51	1306.613	1654.832	4059.511	833	11163.66	286.0726	1	109307.9	136657.6	11449.73	125207.9	132971.9	4.2004
-0.5732	11.4063	160.829	85.4535	7.0759	142.5128	7.1111	2.9534	3.6625	11169.82	4915.931	1316.785	1554.354	4147.744	833	11406.3	284.6664	1	112398.6	139989.5	11690.96	128298.6	136226.2	3.6033
-0.0033	11.019	135.905	88.1107	8.212	142.005	6.1738	2.7133	3.3083	11346.01	5162.335	1341.259	1964.162	3643.258	833	10018.96	284.0535	1	115183.7	141386.7	10303.01	131083.7	138070.2	3.2649
-0.5825	12.7936	136.4009	87.0114	9.8695	150.9261	6.5464	2.6759	3.2533	11642.73	5081.624	1333.243	1704.328	4288.532	833	11793.46	283.7028	1	114311.2	142288.4	12077.17	130211.2	138400.8	3.2043

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

0.2805	11.0272	163.3648	88.1271	6.4905	144.8729	6.1203	2.9901	3.7166	11826.94	5173.936	1342.411	2065.71	4009.885	833	11027.18	284.8395	1	112358.9	139570.9	11312.02	128258.9	135929.6	3.6577
0.0057	12.2652	133.9826	87.7981	8.7592	146.4342	6.8095	2.6582	3.2271	11574	5024.605	1327.579	1839.906	4146.906	833	11371.09	283.6978	0.9271	114727.5	142282.3	11654.79	130627.5	138530.6	3.1805
-1.6884	11.4146	154.4933	87.7239	9.6842	137.7378	7.414	2.8879	3.5658	10749.01	4893.637	1314.571	1176.903	4128.9	833	11353.27	284.4558	0.9946	112945	140482.7	11637.72	128845	136736.5	3.5097
1.2065	10.947	152.8823	87.5383	9.6731	153.7981	6.3909	2.8812	3.556	11975.52	5115.306	1336.588	2307.893	3980.731	833	10947.01	284.4902	1	113262.2	140393.7	11231.5	129162.2	136778.3	3.502
-1.0382	10.0876	204.2256	87.1349	8.5267	149.2115	4.8395	3.4111	4.3374	11729.24	5451.44	1369.974	1899.889	3668.214	937.7249	10087.59	286.391	1	109676.2	135950.2	10373.98	125576.2	132610.8	4.2667
0.5414	11.599	111.3127	86.5831	9.745	156.2164	5.8525	2.3903	2.832	12003.38	5231.96	1348.174	2202.763	3972.17	846.3113	10898.68	282.869	0.9396	117133.9	144215.5	11181.55	133033.9	140616.1	2.7978
1.7085	12.3315	128.7527	87.5427	7.3152	134.0337	7.6653	2.8403	3.2182	10753.19	4839.183	1309.163	2213.648	3156.201	833	8518.607	650.5138	0.6908	116341	141410.1	9169.12	132241	138458.6	3.1937
1.4152	11.9907	126.5142	86.2902	7.4319	149.9558	6.6166	2.5883	3.124	11825.25	5066.393	1331.73	2329.537	3862.595	833	10564.84	283.5661	0.8811	115804.3	142552.8	10848.41	131704.3	139060.6	3.0832
1.073	12.3131	99.4479	85.8898	7.7557	156.9041	5.4128	2.2415	2.6125	12259.57	5327.224	1357.636	2460.807	3825.912	885.9886	10443.59	282.4216	0.8482	118602.1	145228.1	10726.01	134502.1	141775.4	2.5851
0.6068	11.7458	127.4601	86.8866	8.1833	153.9728	6.2795	2.5726	3.1009	12118.17	5139.432	1338.984	2138.277	4266.477	833	11732.64	283.3727	0.9989	115158	143074	12016.01	131058	139206.1	3.0565
0.0457	12.389	103.5573	86.2251	9.1873	152.2529	5.6446	2.302	2.7017	11729.23	5277.005	1352.648	2085.717	3746.79	865.0727	10211.85	282.6483	0.8243	118281.4	144675.9	10494.5	134181.4	141297.7	2.6727
0.2102	11.9263	159.8464	85.7821	6.5786	156.4244	5.6115	2.9291	3.6267	12389.36	5284.165	1353.36	2144.951	4336.835	868.0546	11926.3	284.5106	1	112249.3	140360.1	12210.81	128149.3	136429.5	3.566
0.6226	11.7163	143.2487	88.8442	8.8884	151.4615	6.2955	2.7555	3.3706	12110.22	5135.979	1338.641	2140.134	4260.466	833	11716.28	283.9725	1	113741.1	141641.4	12000.26	129641.1	137778.5	3.3185
-1.1405	11.5303	163.1148	86.5999	7.6737	137.9933	7.628	2.974	3.6929	10891.28	4847.274	1309.966	1309.433	4189.608	833	11521.32	284.7151	0.9992	112162.9	139868.9	11806.03	128062.9	136068.6	3.6322
0.9315	12.203	168.967	87.8534	9.2844	142.9831	8.1641	3.0413	3.7921	11234.05	4731.117	1298.429	1865.273	4104.228	833	11251.15	284.9757	0.922	111813.5	139249.6	11536.12	127713.5	135536.2	3.7299
2.448	12.0483	162.9802	87.0839	7.4528	150.5993	7.8292	2.9699	3.6869	11992.39	4803.682	1305.637	2417.521	4230.55	833	11620.57	284.6874	0.9645	112130.3	139935.5	11905.26	128030.3	136103.2	3.6259
-0.3325	12.6015	153.3389	88.1127	8.7932	151.8933	6.4743	2.8426	3.4992	12048.1	5097.227	1334.792	1798.723	4582.359	833	12601.49	284.1368	1	112482.3	141267.9	12885.63	128382.3	137120	3.4393
-2.112	10.3425	142.852	86.2392	10.1638	141.1404	6.2916	2.7855	3.4148	10737.3	5136.816	1338.724	1265.84	3760.923	833	10342.54	284.2535	1	114406.1	140932.9	10626.8	130306.1	137512.1	3.3673
0.2339	11.555	116.8496	86.9907	8.9317	140.8579	6.592	2.5626	2.9839	10995.23	5071.724	1332.259	1956.453	3399.796	833	9251.383	418.4283	0.8006	117300.3	142870.1	9669.811	133200.3	139757.4	2.9554
0.9023	10.8303	136.3135	89.0451	9.3573	156.3824	5.1394	2.6984	3.2863	12461.78	5386.455	1363.519	2460.858	3938.286	910.6583	10830.29	283.8993	1	114768.3	141782.5	11114.19	130668.3	138204.8	3.2402
-0.8822	10.1219	151.7179	88.0918	10.2568	141.3946	6.3947	2.8901	3.569	11005.44	5114.472	1336.505	1638.762	3680.7	833	10121.93	284.6343	1	113731.3	140037.9	10406.56	129631.3	136688	3.5186
-0.9545	10.2982	113.2723	88.599	8.1203	144.1846	5.2726	2.4285	2.8882	11603.79	5357.614	1360.655	1840.065	3744.81	898.6461	10298.23	283.0629	1	117232.7	143714	10581.29	133132.7	140307.9	2.8543
-1.3444	10.6353	132.0096	88.4819	8.6692	157.3924	3.4552	2.6526	3.2188	12561.92	5751.378	1399.765	2078.75	3867.376	1062.649	10635.28	283.7717	1	115254.8	142073.8	10919.06	131154.8	138559	3.1753
0.5554	10.6166	149.9569	86.571	7.3205	135.2274	7.7015	2.9026	3.5585	10716.84	4831.333	1308.383	1837.434	3504.689	833	9598.425	322.9933	0.9041	114096.4	139917.8	9921.419	129996.4	136724.1	3.512
-1.4823	10.8491	139.2189	87.3157	8.6049	148.3618	5.1921	2.7315	3.3351	11677.68	5375.044	1362.386	1687.236	3945.111	905.9057	10849.06	284.0067	1	114497.3	141530.4	11133.06	130397.3	137946.6	3.2876
-0.5417	11.8338	136.54	87.8821	10.1872	131.6888	7.6253	2.8437	3.3441	10231.55	4847.859	1310.024	1501.604	3337.058	833	9058.119	490.9358	0.7654	115448.3	140897.4	9549.055	131348.3	137823.5	3.3102
1.2139	12.1937	117.0924	86.7224	6.8289	146.8142	6.2895	2.4828	2.9683	11729.5	5137.274	1338.77	2330.532	3687.922	833	10051.44	283.2734	0.8243	116970	143204.8	10334.71	132870	139878	2.9332
0.2163	10.5754	102.3722	85.8394	8.0457	157.693	4.9162	2.2787	2.6674	12267.52	5434.819	1368.323	2285.987	3845.587	930.802	10575.37	282.5324	1	118222.6	144980.5	10857.9	134122.6	141485.4	2.6383
0.7734	12.2342	270.1404	86.5213	6.7923	155.3036	6.2147	3.8587	4.9977	12382.2	5153.479	1340.379	2204.559	4448.783	833	12234.17	287.4782	1	104819.5	133241.1	12521.65	120719.5	129210.4	4.8907
-0.4589	12.4645	172.222	87.0196	9.2123	158.5402	5.6785	3.0397	3.7898	12335.57	5269.654	1351.918	1917.44	4532.551	862.0108	12464.52	284.7913	1	111037.5	139686.8	12749.31	126937.5	135582.8	3.7214
0.9612	12.5997	156.1115	87.4363	7.5674	152.7197	7.0766	2.8719	3.5425	12197.56	4966.745	1321.832	2092.277	4581.702	833	12599.68	284.2315	1	112255	141038.9	12883.91	128155	136891.6	3.4812
Average	11.49125	146.1341	87.3	8.2243155	148.4375	6.15112	2.791397	3.408923	11739.3	5167.257	1341.748	1969.776	3992.683	865.6532	10958.37	303.4489	0.954732	114022.1	141183.9	11261.73	129922.1	137558.6	3.358829

Mandate 9bg, Tax Credit & Tariff	Com price	Ethanol price	Gas price	Com Production	Com feed demand	Com food demand	Com export demand	Com ethanol demand	Com storage demand	Ethanol domestic supply	Ethanol import supply	% of ethanol plant running	Gasoline domestic supply	Total fuel volume	Total ethanol demand	Total gas supply	Total fuel demand	Fuel price	Prob. Of mandate binding
6.2029	3.2123	4.0442	11641.22	5156.028	1340.633	2093.978	3815.586	833	10492.86	285.6586	1	110969.6	137648.1	10778.52	126869.6	134178.5	3.979	0	
5.5523	2.2614	2.427	11485.67	5297.004	1354.635	2389.721	3168.903	873.4023	8580.315	566.1138	0.7319	120591.3	145637.7	9146.428	136491.3	142693.5	2.4166	0	
7.1566	2.7852	3.4146	11783.02	4949.395	1320.109	1787.413	4491.099	833	12341.58	283.9868	0.9754	113099.2	141624.7	12625.56	128999.2	137560.6	3.3585	0	
5.1513	3.1422	3.9409	12518.44	5383.895	1363.265	2359.395	4100.292	909.5924	11275.81	285.3045	1	111010	138471.1	11561.11	126910	134749.6	3.8743	0	
6.9599	2.6367	3.1954	11640.99	5057.018	1330.799	1833.965	4184.207	833	11495.19	283.6117	0.9686	114813.9	142492.7	11778.8	130713.9	138701.1	3.1492	0	
5.8072	3.2396	4.0845	11347.55	5241.776	1349.149	1655.385	3848.837	850.3995	10584.3	285.7353	1	110697.1	137467.1	10870.04	126597.1	133968	4.0177	0	
6.1778	2.946	3.6516	12074.36	5161.485	1341.175	1928.351	4408.351	833	12122.97	284.5376	1	111989.5	140297	12407.5	127889.5	136303	3.5892	0	
7.4034	2.8081	3.3729	10886.02	4895.939	1314.8	2001.597	3438.683	833	9401.188	383.7072	0.8735	115160.7	140845.6	9784.896	131060.7	137695.9	3.3336	0	
6.9568	2.9623	3.6757	11572.89	4992.69	1324.409	1840.759	4180.03	833	11495.08	284.6805	1	112271.3	139951.1	11779.77	128171.3	136159.2	3.6156	0	
5.5456	2.7153	3.3112	12065.3	5298.444	1354.778	2301.773	3834.306	874.002	10544.34	283.9922	1	114823.9	141552.3	10828.33	130723.9	138066.6	3.2656	0	
5.2192	3.2933	4.1637	11626.59	5369.183	1361.804	1651.166	3938.975	903.4647	10832.19	285.8741	1	110117.6	137135.7	11118.06	126017.6	133556.8	4.0931	0	
5.905	2.3739	2.8077	11372.9	5220.589	1347.045	1962.08	3599.613	841.5752	9807.077	282.9338	0.8187	117985.7	143975.7	10090.01	133885.7	140727.7	2.7773	0	
3.9668	2.6588	3.2279	12353.57	5640.536	1388.755	1874.558	4031.235	1016.483	11085.9	283.7357	1	114910.2	142179.9	11369.64	130810.2	138520	3.1824	0	
5.3642	2.977	3.6972	11423.53	5337.751	1358.682	1536.504	3898.224	890.3734	10720.12	284.8402	1	112661.5	139566.4	11004.96	128561.5	136023.9	3.6404	0	
5.9079	3.1826	4.0004	11879.67	5219.962	1346.983	2319.108	3750.301	841.3143	10313.33	285.5875	1	111317.6	137816.5	10598.92	127217.6	134404.7	3.9375	0	
4.6332	2.7041	3.2949	12776.27	5496.148	1374.414	2291.27	4256.088	956.3455	11704.25	283.8062	1	114149.8	142037.9	11988.05	130049.8	138178.9	3.245	0	
4.4303	3.1352	3.9306	12273.72	5540.112	1378.781	2289.544	4138.629	974.6568	11381.23	285.2653	1	110996.5	138563	11666.49	126896.5	134807.5	3.8636	0	
6.3913	2.516	3.0172	11020.4	5115.226	1336.58	1748.208	3585.386	833	9785.525	283.4163	0.8457	116885.2	142854.1	10068.94	132785.2	139612.9	2.9819	0	
6.6647	2.6204	3.1713	11025.92	5055.982	1330.696	1440.728	3963.514	833	10872.79	283.6351	0.9356	115350.7	142407.1	11156.42	131250.7	138815.8	3.1281	0	
6.8717	2.6388	3.071	11379.32	5011.139	1326.242	2442.738	3364.198	833	9148.343	451.8782	0.7909	116875.9	142376.2	9600.221	132775.9	139285.8	3.0419	0	
6.1976	2.479	2.9093	11237.24	5157.186	1340.748	2048.404	3455.9	833	9469.076	353.8153	0.9124	117608.3	143331.2	9822.891	133508.3	140169.2	2.8798	0	
5.3996	2.6792	3.2582	12093.77	5330.086	1357.921	1827.398	4289.18	887.1808	11795.25	283.7134	1	114284.2	142263.1	12078.96	130184.2	138374.9	3.209	0	
7.2513	2.7767	3.4017	11068.39	4928.889	1318.073	1568.161	3618.266	833	9911.998	284.2809	0.9088	114757.2	140853.5	10196.28	130657.2	137571.3	3.3565	0	
6.8522	2.6541	3.2052	11068.22	5015.354	1326.66	1963.226	3527.984	833	9648.127	304.6123	0.8784	115957.8	141810.6	9952.739	131857.8	138606.8	3.1665	0	
6.3525	2.543	3.0573	12146.8	5123.625	1337.414	2058.998	4391.767	833	12061.2	283.2369	0.9602	115172.3	143416.8	12344.44	131072.3	139443.1	3.013	0	
5.838	2.7655	3.3854	11813.48	5235.107	1348.487	1959.278	4020.985	847.6221	11057.72	284.0923	1	114094	141335.8	11341.81	129994	137684.9	3.3356	0	
6.5049	2.6053	3.1491	11687.42	5090.601	1334.134	1953.223	4074.457	833	11200.06	283.545	0.9841	115252.9	142636.5	11483.61	131152.9	138940	3.1054	0	
5.1635	2.1568	2.313	11263.97	5381.247	1363.002	1979.784	3229.452	908.4894	8760.18	512.4806	0.7563	121124	146296.7	9272.66	137024	143311.8	2.3031	0	
4.6376	2.2204	2.5814	11939.86	5581.861	1382.928	1598.344	3982.678	992.405	10952.37	282.3001	1	118428.8	145563.5	11234.67	134328.8	141947	2.5536	0	
6.2711	2.6513	3.2169	11336.95	5054.601	1330.559	1838.221	3878.573	833	10660.89	283.7643	0.9821	115247.9	142092.6	10944.65	131147.9	138569.5	3.1733	0	
4.1553	2.6788	3.2574	12705.12	5599.679	1384.697	2318.388	4000.893	999.4662	11002.46	283.8123	1	114808.7	141995	11286.27	130708.7	138361.9	3.2114	0	
6.1754	2.5351	3.0455	11613.66	5161.995	1341.225	1555.947	4319.497	833	11878.17	283.2328	0.9976	115355.1	143416.5	12161.41	131255.1	139501.8	3.0023	0	
6.0289	2.4082	2.8122	11023.97	5193.746	1344.379	1764.072	3486.77	833	9498.161	343.8582	0.8163	118114.6	143856.6	9842.02	134014.6	140688.5	2.7845	0	
4.444	3.115	3.9008	12345.61	5537.13	1378.485	2143.088	3911.491	973.4148	10756.6	285.2938	1	111559	138500.9	11041.89	127459	134946.5	3.8381	0	
5.0829	2.6941	3.2801	12499.33	5398.7	1364.736	2035.34	4382.799	915.7585	12052.71	283.7289	1	113999.5	142235.9	12336.44	129899.5	138264.8	3.2292	0	
5.7585	2.8538	3.5156	12172.74	5252.332	1350.198	2130.281	4183.134	854.7963	11503.62	284.3232	1	113112.5	140800.5	11787.94	129012.5	137005.9	3.4602	0	
6.768	3.031	3.777	11912.17	5033.635	1328.476	2128.564	4186.497	833	11512.87	284.9034	1	111723.6	139421.3	11797.77	127623.6	135623.6	3.7139	0	
5.1575	3.2031	4.0306	12322.58	5382.55	1363.132	2381.605	3884.265	909.0322	10681.73	285.5982	1	110919.4	137786.7	10967.33	126819.4	134256.4	3.9648	0	
5.5894	2.895	3.5763	12126.93	5288.956	1353.835	2186.735	4025.358	870.0561	11069.74	284.5187	1	113074.6	140328.8	11354.26	128974.6	136673.9	3.5212	0	
6.0393	3.1552	3.9601	12160.28	5191.491	1344.155	2124.898	4264.734	833	11728.02	285.2775	1	110616	138529.3	12013.3	126516	134662.2	3.8903	0	
5.6243	2.4306	2.8915	12518.87	5281.397	1353.085	2426.403	4189.085	866.902	11519.99	282.9328	1	116407.4	144110.3	11802.92	132307.4	140310.9	2.8538	0	
5.0347	3.1341	3.9288	12339.67	5409.141	1365.773	2317.487	3925.158	920.1072	10794.19	285.3512	1	111386	138365.5	11079.54	127286	134799	3.8652	0	
6.3534	2.9589	3.6706	11461.36	5123.437	1337.396	1714.493	4051.037	833	11140.35	284.72	1	112529	139854.1	11425.07	128429	136176.4	3.6125	0	
4.364	2.8655	3.5329	12695.78	5554.474	1380.207	1978.399	4400.06	980.6383	12100.17	284.2794	1	112631.9	140916.3	12384.45	128531.9	136929.8	3.4742	0	
3.6775	2.6893	3.2729	12181.17	5703.218	1394.981	1620.014	4018.367	1042.59	11050.51	283.841	1	114694.9	141929.3	11334.35	130594.9	138280.7	3.2263	0	
7.0548	2.7035	3.2938	11143.17	4971.463	1322.301	1804.955	3809.452	833	10399.86	283.9714	0.85	115011	141594.8	10683.83	130911	138155.7	3.2493	0	
5.7592	2.9638	3.6778	11502.12	5252.175	1350.182	1541.785	4101.242	854.731	11278.42	284.7163	1	112401	139864.1	11563.14	128301	136142	3.6188	0	
6.3928	2.7582	3.3746	11523.64	5114.884	1336.546	1558.037	4279.169	833	11767.72	283.9747	1	113686.1	141637.8	12051.69	129586.1	137758.4	3.3222	0	
6.1374	2.4731	2.9541	11495.04	5170.231	1342.043	2022.366	3725.396	833	10223.32	283.2212	0.9432	116932.1	143338.6	10506.54	132832.1	139956.5	2.9188	0	
3.7428	2.234	2.6015	12525.84	5689.066	1393.576	1974.499	4030.003	1036.696	11062.51	282.3321	1	118235.5	145500.4	11364.84	134135.5	141842	2.5728	0	
5.0241	2.6526	3.2188	12372.61	5411.453	1366.002	2249.019	4023.066	921.0702	11063.43	283.718	1	114973.3	142220.5	11347.15	130873.3	138567.9	3.1736	0	
5.1455	2.1669	2.5026	12045.7	5385.146	1363.389	2096.586	3888.468	910.1133	10616.56	282.1557	0.8515	119071.2	145869.9	10898.71	134971.2	142361.6	2.4775	0	
6.0792	2.7836	3.4122	12152.48	5182.839	1343.296	1931.636	4459.706	833	12264.19	283.9919	1	113162.4	141610.6	12548.19	129062.4	1375			

5.4788	2.7203	3.3187	12051.47	5312.934	1356.217	1872.952	4227.328	880.0369	11625.15	283.8693	1	114075.5	141884.5	11909.02	129975.5	138051	3.2685	0
6.5951	2.5446	2.8123	10855.52	5071.072	1332.195	2052.496	3164.753	833	8543.133	609.6451	0.6929	118523.5	143576.3	9152.778	134423.5	140630	2.7952	0
6.0178	2.7104	3.3041	11960.74	5196.144	1344.617	2114.095	4070.885	833	11194.94	283.8924	1	114434.8	141813.6	11478.83	130334.8	138118.6	3.2561	0
4.9361	2.868	3.5365	12092.14	5430.511	1367.895	1916.021	4046.704	929.008	11128.44	284.4215	1	113246.8	140559.7	11412.86	129146.8	136885.9	3.4823	0
5.1279	2.6086	3.1541	11941.49	5388.946	1363.767	1576.562	4298.521	911.6958	11820.93	283.4797	1	114818.4	142822.8	12104.41	130718.4	138926.4	3.1078	0
5.2754	2.7352	3.3407	11956.44	5356.992	1360.593	1492.185	4446.284	898.387	12227.28	283.8397	1	113564.5	141975.6	12511.12	129464.5	137948.2	3.2873	0
5.9277	2.5302	3.0384	12272.46	5215.665	1346.556	1835.458	4633.26	839.5244	12741.47	283.1148	1	114823.7	143748.3	13024.58	130723.7	139555.6	2.9924	0
5.0346	2.4005	2.847	12480.91	5409.16	1365.774	2266.781	4117.076	920.1151	11321.96	283.8557	1	116774.5	144279.3	11604.82	132674.5	140543.7	2.8111	0
5.01	2.1025	1.9124	11494.07	5414.509	1366.306	2393.936	2994.971	922.3431	8064.644	935.3558	0.6621	124390	149290	9000	140290	145378.6	1.9239	1
5.8316	3.4974	4.4648	11854.13	5236.492	1348.625	1855.669	4163.15	848.199	11448.67	286.4447	1	108129.2	135764.3	11735.11	124029.2	131986.8	4.3812	0
5.7821	3.0638	3.8252	12453.08	5247.203	1349.688	2507.173	4094.356	852.6602	11259.48	285.0485	1	111633	139077.5	11544.53	127533	135361.3	3.762	0
6.3072	2.847	3.5056	12578.6	5133.439	1338.389	2224.869	4646.906	833	12778.99	284.1266	1	112332.3	141295.4	13063.12	128232.3	137090.4	3.4447	0
6.0872	2.6353	3.1932	12247.74	5181.116	1343.124	2503.058	3985.441	833	10959.97	283.6736	1	115176.9	142320.6	11243.65	131076.9	138701.3	3.1492	0
8.004	3.1128	3.8974	10889.98	4765.79	1301.873	1825.687	3761.627	833	10344.47	285.3487	1	111844.1	138373.9	10629.82	127744.1	134952.1	3.8371	0
5.8511	2.8019	3.4392	11959.14	5232.257	1348.204	1526.339	4603.907	846.4349	12660.74	283.9981	1	112760	141604.7	12944.74	128660	137437.8	3.381	0
6.2895	2.7606	3.3781	11592.04	5141.599	1339.199	1832.005	4044.232	833	11121.64	284.0676	1	114090.6	141396.4	11405.71	129990.6	137724.9	3.3283	0
6.014	3.0588	3.8178	11423.1	5182.355	1343.247	1795.585	3866.91	833	10634	285.125	1	112078.1	138897.2	10919.13	127978.1	135382.4	3.7581	0
6.0459	2.7738	3.3976	11706.86	5190.049	1344.012	1759.438	4178.364	833	11490.5	284.0624	1	113745.8	141420.3	11774.57	129645.8	137630.1	3.3457	0
6.8293	3.0663	3.8291	11676.55	5020.313	1327.153	1539.419	4554.661	833	12525.32	284.8682	1	110790.7	139500.9	12810.19	126690.7	135377.3	3.7591	0
7.018	2.7086	3.3014	11324.45	4979.426	1323.092	2097.762	3689.173	833	10103.17	284.0268	0.9032	15165.4	141452.6	10387.2	131065.4	138109	3.2578	0
5.3529	2.2157	2.4103	11772.16	5340.212	1358.926	2528.527	3251.095	891.3983	8844.537	498.9821	0.797	120560.1	145803.6	9343.519	136460.1	142795.9	2.3978	0
6.0257	2.4046	2.7471	11072.53	5194.436	1344.447	1916.243	3382.4	833	9205.155	422.896	0.8024	118588.3	144116.4	9628.051	134488.3	141017.1	2.7242	0
6.7938	3.0119	3.7486	11415.98	5028	1327.916	2060.903	3764.157	833	10351.43	285.01	1	112628.6	139165.1	10636.44	128528.6	135741.2	3.6923	0
5.7528	2.4255	2.8841	12650.58	5253.555	1350.319	2334.204	4455.195	855.3056	12251.75	282.8339	0.9997	115963.1	144397.7	12534.58	131863.1	140362.8	2.8443	0
5.2745	2.2084	2.5638	11997.58	5357.195	1360.613	2112.499	3866.797	898.4716	10573.81	282.2982	0.877	118774.5	145530.6	10856.11	134674.5	142036	2.5372	0
5.1782	3.136	3.9317	11751.63	5378.06	1362.686	1848.353	3853.366	907.1621	10596.76	285.3879	1	111498.8	138280.9	10882.15	127398.8	134778	3.8691	0
4.6902	2.2628	2.6439	11765.71	5483.797	1373.188	1856.061	3699.46	951.2015	10173.52	282.5207	1	118614.5	144970.5	10456.04	134514.5	141604.7	2.6164	0
6.3187	2.4894	2.9389	10817.82	5130.954	1338.142	1612.943	3500.778	833	9536.678	334.9596	0.8169	117421.8	143193.4	9871.638	133321.8	140015.7	2.908	0
5.9844	3.1058	3.8971	12116.02	5203.374	1345.335	2367.429	3963.479	834.4052	10899.57	285.2414	1	111538.6	138623.4	11184.81	127438.6	135023	3.8241	0
5.6721	3.0214	3.7627	11991.76	5271.051	1352.057	2009.943	4094.119	862.5926	11258.83	284.9088	1	111964.4	139408.2	11543.74	127864.4	135692.3	3.7013	0
7.5636	2.9075	3.5947	11016.16	4861.231	1311.352	1994.12	3614.456	833	9934.273	284.7191	0.9802	113717.4	139836.4	10218.99	129617.4	136546.9	3.5445	0
6.3935	2.7202	3.3185	12133.63	5114.752	1336.533	2591.791	3855.554	833	10602.78	284.0012	1	114746.9	141533.7	10886.78	130646.9	138029.2	3.2725	0
5.4739	2.2822	2.6725	12525.17	5313.991	1356.322	2538.016	4034.363	880.4773	11069.17	282.4926	0.9393	117867.6	145119.3	11351.66	133767.6	141465.2	2.642	0
7.8847	3.2551	4.1074	11712.27	4791.647	1304.441	2097.083	4284.103	833	11781.28	285.5954	1	109803.2	137770.1	12066.88	125703.2	133885.7	4.0328	0
7.8244	2.9315	3.6301	11176.3	4804.715	1305.739	1688.757	4142.089	833	11333.52	284.6021	0.8875	112617.3	140135.5	11618.12	128517.3	136395.6	3.5722	0
5.2346	2.5546	3.0744	12462.89	5365.832	1361.471	2034.481	4397.034	902.609	12091.85	283.2711	1	115061.4	143336.5	12375.12	130961.4	139352.9	3.0296	0
5.1321	2.8862	3.5634	11970.96	5388.047	1363.677	1717.047	4188.87	911.3214	11519.4	284.4272	1	112849.7	140553.5	11803.82	128749.7	136753.8	3.5065	0
6.6774	3.1535	3.9577	12198.12	5053.236	1330.423	2210.176	4369.283	833	12015.53	285.2277	1	110442.7	138643.5	12300.76	126342.7	134683.8	3.8863	0
5.5464	2.2727	2.5254	11233.53	5298.271	1354.761	1987.96	3316.613	873.9297	9033.52	458.2689	0.8145	119854	145245.8	9491.789	135754	142190.3	2.5089	0
6.7209	2.7568	3.3727	12178.84	5043.8	1329.486	2102.109	4468.443	833	12288.22	283.9019	1	113355.5	141827.6	12572.12	129255.5	137780.7	3.3181	0
6.1859	2.494	2.985	11492.06	5159.719	1340.999	1610.637	4145.702	833	11384.36	283.1564	0.958	116001.6	143569.2	11667.51	131901.6	139813.4	2.9451	0
7.7829	2.9256	3.6214	11014.35	4813.715	1306.633	1922.49	3736.513	833	10323.26	284.738	0.904	113380.6	139798.6	10518	129280.6	136412.8	3.5691	0
7.7333	3.165	3.9747	11748.39	4824.442	1307.698	1759.21	4622.043	833	12710.62	285.1575	1	109903.1	138798.9	12995.78	125803.1	134615.5	3.8989	0
7.9993	3.4171	4.3465	11727.14	4766.819	1301.975	1838.289	4585.059	833	12608.92	285.9845	1	108009.3	136804.2	12894.9	123909.3	132653.3	4.2589	0
5.2668	2.9279	3.6248	11623.05	5358.866	1360.779	1522.136	4080.104	899.1677	11220.29	284.6062	1	112719.5	140124.4	11504.89	128619.5	136421	3.5676	0
5.7895	2.6771	3.255	12120.47	5245.608	1349.53	1988.955	4282.378	851.9597	11776.54	283.7087	1	114313.4	142273.6	12060.25	130213.4	138391.4	3.206	0
8.3047	3.0962	3.8731	11369.59	4700.652	1295.403	1669.326	4469.205	833	12268.24	285.0031	0.9498	110725.4	139178.6	12553.24	126625.4	135137.7	3.803	0
5.2636	3.1291	3.9216	12089.05	5359.551	1360.847	2063.917	4003.285	899.4529	11009.04	285.3021	1	111285.2	138479.5	11294.34	127185.2	134843.9	3.857	0
6.7535	3.0653	3.8275	11813.39	5036.739	1328.785	2092.367	4120.498	833	11331.37	285.0428	1	111574.3	139090.7	11616.41	127474.3	135351.4	3.7638	0
5.5234	2.3403	2.7583	11874.55	5303.265	1355.257	1860.114	4077.902	876.0097	11213.6	282.6694	0.9967	117316.5	144712.8	11496.27	133216.5	141012.1	2.7251	0
5.8695	2.3776	2.7916	11139.21	5228.274	1347.808	1801.715	3514.641	844.7762	9613.794	311.493	0.8823	118175	144000.3	9925.287	134075	140805.4	2.7631	0
6.8381	2.6504	3.2155	11417.35	5018.402	1326.963	1974.769	3862.219	833	10562.79	283.7734	0.8794	115319.7	142066.3	10846.56	131219.7	138574.8	3.1724	0
5.8062	3.0578	3.8164	11659.52	5242	1349.172	1817.259	3998.599	850.493	10996.15	285.0679	1	111850.8	139032	11281.22	127750.8	135400.6	3.7548	0
5.1085	2.4515	2.9224	12583.7	5393.15	1364.184	1897.498	4613.423	913.4468	12686.92	282.8683	1	115473	144342.8	12969.79	131373	140167.8	2.88	0
5.3831	3.3095	4.1876	12596.94</															

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

6.4707	2.5231	2.8123	11185.84	5098.023	1334.871	2316.438	3201.511	833	8693.613	567.7678	0.7709	118458.4	143619.7	9261.381	134358.4	140638.5	2.7937	0
5.2942	2.2217	2.5834	12428.31	5352.923	1360.189	2343.237	4073.273	896.6925	11158.73	282.2837	0.9092	118281.1	145622.1	11441.02	134181.1	141939.3	2.555	0
7.0055	2.8729	3.5437	11253.69	4982.15	1323.362	1683.526	4029.649	833	11081.53	284.444	1	113239.6	140505.5	11365.98	129139.6	136846.8	3.4894	0
6.9417	2.7692	3.3909	12256.91	4995.963	1324.734	2145.83	4555.383	833	12527.15	283.9103	0.999	113102.7	141813.8	12811.06	129002.7	137689.9	3.3347	0
7.2415	2.824	3.4715	11127.91	4931.006	1318.283	1883.874	3759.744	833	10336.22	284.3831	0.9878	114109.1	140629.7	10620.6	130009.1	137211	3.4226	0
5.4444	2.2906	2.685	12251.07	5320.37	1356.956	2177.521	4111.089	883.1339	11296.99	282.4968	0.9747	117650	145129.5	11579.49	133550	141402.1	2.6536	0
6.3969	2.508	3.0055	11147.7	5113.999	1336.458	1837.209	3625.035	833	9864.023	283.3803	0.8002	116895.7	142943.1	10147.4	132795.7	139676.6	2.9702	0
5.5066	2.6875	3.2704	12204.55	5306.914	1355.619	1930.645	4331.844	877.5296	11912.57	283.7253	1	114142.8	142239.1	12196.3	130042.8	138313.1	3.2204	0
6.7738	2.6814	3.2614	12103.17	5032.333	1328.347	1983.804	4523.681	833	12434.19	283.6392	0.9824	113847.9	142465.7	12717.83	129747.9	138371.9	3.2096	0
6.0512	2.4488	2.9183	11857.46	5188.912	1343.899	1769.105	4320.546	833	11856.93	282.954	0.9439	116042.7	144082.6	12139.89	131942.7	140174.8	2.8788	0
5.6732	3.0918	3.8668	12489.34	5270.815	1352.034	1959.614	4642.386	862.4943	12646.56	284.9141	1	110435.7	139387.1	13051.48	126335.7	135185.9	3.7942	0
4.6868	2.941	3.6442	11836.69	5484.526	1373.26	1645.416	3979.981	951.5049	10940.95	284.6887	1	112796.1	139925.7	11229.64	128696.1	136310.9	3.5878	0
8.3823	3.1183	3.9056	10491.49	4683.837	1293.733	1407.892	3871.026	833	10626.16	285.3245	0.9497	111617.9	138429.4	10911.48	127517.9	134917	3.8435	0
4.4983	2.4613	2.9366	12494.3	5525.379	1377.318	2434.865	3786.223	968.5204	10412.11	283.1599	1	116900.1	143495.4	10695.27	132800.1	140052.6	2.9012	0
7.1447	2.78	3.4068	11461.88	4951.975	1320.365	1806.477	4148.063	833	11398.03	284.0951	0.9734	113757.9	141340.1	11682.13	129657.9	137579.6	3.355	0
2.9152	3.1911	4.0129	12859.83	5868.373	1411.385	2352.848	3713.85	1111.377	10213.09	285.6315	1	111316.4	137715.1	10498.72	127216.4	134335.5	3.9502	0
5.9506	3.4936	4.4591	11620.78	5210.697	1346.063	1872.097	3952.466	837.4554	10869.29	286.5326	1	108530.7	135586.5	11155.82	124430.7	131995.4	4.3796	0
6.4558	2.6051	3.1489	11516.68	5101.243	1335.191	1601.424	4243.821	833	11668.93	283.4869	0.9935	114945.9	142798.3	11952.42	130845.9	138950.9	3.1034	0
4.3014	2.8138	3.4564	12239.7	5568.033	1381.554	2339.064	3562.763	986.2858	10977.603	284.4213	1	114541.6	140523.6	10082.02	130441.6	137278.2	3.4103	0
6.7021	3.1742	3.988	11965.26	5047.875	1329.891	2295.445	4057.05	833	11156.89	285.4282	1	110837.8	138180.1	11442.32	126737.8	134496.8	3.9206	0
6.2674	2.5314	3.0401	11742.02	5142.063	1339.246	2025.747	3999.969	833	10993.32	283.3258	0.9788	115967	143143.7	11276.64	131867	139513.7	3.0001	0
7.6065	2.8803	3.5546	11056.11	4851.922	1310.428	1651.867	4006.893	833	10980.85	284.4824	0.916	113247.3	140412.7	11265.34	129147.3	136786.4	3.5005	0
6.3985	2.5685	3.095	11889.79	5113.649	1336.423	1737.288	4467.433	833	12277.66	283.2938	0.9779	114830.5	143291.5	12560.95	130730.5	139248.1	3.0488	0
6.8375	2.8742	3.5458	12136.94	5018.546	1326.978	2066.159	4490.263	833	12348.23	284.2735	1	112401.7	140934.2	12632.51	128301.7	136867.8	3.4856	0
5.9946	2.402	2.8491	11889.74	5201.175	1345.117	2485.495	3622.467	833.4895	9879.046	283.0206	0.8336	117717.9	143779.9	10162.07	133617.9	140508.8	2.8175	0
6.5961	2.5711	3.0986	11969.45	5070.834	1332.171	2372.128	3959.317	833	10798.81	283.4805	0.8352	115784.9	142767.2	11082.29	131684.9	139199.8	3.0577	0
5.068	3.298	4.1708	12378.43	5401.925	1365.056	1784.787	4507.559	917.1018	12395.8	285.6358	1	109072.5	137653.9	12681.43	124972.5	133571.8	4.0904	0
5.1476	2.4914	2.9811	11776.59	5384.686	1363.344	1450.967	4265.669	909.9216	11730.59	283.1075	1	115793.6	143707.3	12013.7	131693.6	139840.1	2.9402	0
4.1414	2.6137	3.1615	12523.55	5602.702	1384.998	2336.985	3796.143	1000.725	10439.4	283.6664	1	115687.8	142310.9	10723.06	131587.8	138859.1	3.1202	0
7.7586	2.8785	3.1866	10788.28	4818.962	1307.154	2391.469	3035.696	833	8233.332	766.668	0.7542	116672.3	141572.3	9000	132572.3	138603.9	3.167	1
6.1836	2.4629	2.939	12086.92	5160.215	1341.048	2496.353	3854.309	833	10534.33	283.1513	0.8885	116806.8	143524.3	10817.48	132706.8	140042.1	2.9031	0
7.3751	2.8609	3.5262	11505.65	4902.069	1315.409	1670.115	4383.06	833	12049.36	284.2717	0.9866	112700.4	140934	12333.63	128600.4	136963.8	3.468	0
7.8263	3.5389	4.5261	11412.11	4804.307	1305.699	1811.731	4255.37	833	11702.27	286.5362	1	107643.7	135532.5	11988.81	123543.7	131673.3	4.4387	0
5.2068	2.218	2.5779	12302.56	5371.858	1362.069	2318.168	3943.89	904.5786	10834.62	282.304	0.9678	118525.8	145542.7	11116.92	134425.8	141964.2	2.5504	0
9.07	3.5816	4.589	11390.24	4534.824	1278.933	1726.594	4614.892	833	12690.96	286.499	1	106679.8	135557.2	12977.46	122579.8	131379.8	4.4926	0
5.2915	2.4049	2.8536	12360.19	5353.504	1360.246	2110.463	4237.044	896.9342	11651.87	282.8337	1	116521.2	144355.9	11934.71	132421.2	140514.1	2.8165	0
6.1302	2.4939	2.9846	11513.54	5171.783	1342.197	2185.917	3578.639	833	9838.159	283.3358	0.9812	117025.1	143044.6	10119.49	132925.1	139787.1	2.9499	0
5.2041	2.7845	3.4133	11874.08	5372.44	1362.127	1963.735	3868.958	904.8211	10639.64	284.2106	1	114219.4	141043.3	10923.85	130119.4	137526.9	3.3646	0
6.0991	2.6764	3.2539	11722.38	5178.524	1342.867	2015.851	3950.143	833	10862.89	283.8223	1	114918.7	141965.4	11146.72	130818.7	138377.3	3.2086	0
7.6419	2.8812	3.556	11542.28	4844.248	1309.666	2036.25	4117.118	833	11267.68	284.4458	0.8913	113052.9	140505	11552.12	128952.9	136786.4	3.5005	0
7.0058	2.6887	3.2719	11362.15	4982.072	1323.355	2068.273	3753.452	833	10244.27	283.9417	0.8458	115229.2	141657.4	10528.21	131129.2	138268.4	3.2286	0
6.3253	3.3514	4.2496	11876.95	5129.512	1337.999	1702.281	4472.164	833	12298.45	285.8246	1	108719.5	137203.8	12584.28	124619.5	133152.9	4.1672	0
4.9339	2.3408	2.7591	12357.94	5430.999	1367.944	2185.894	4041.894	929.2109	11115.21	282.6816	1	117377.8	144675.7	11397.89	133277.8	141006.7	2.7261	0
4.4376	3.2762	4.1385	11674.98	5538.512	1378.622	1667.91	3713.942	973.9902	10213.34	285.9172	1	110650.2	137049.5	10499.26	126550.2	133669.8	4.0724	0
7.3301	2.8178	3.4625	11233.56	4911.806	1316.376	1686.349	4084.026	833	11211.33	284.2444	0.9506	113585.1	140980.6	11495.58	129485.1	137280.2	3.4099	0
5.5867	2.8151	3.4585	11646.89	5289.552	1353.895	1515.164	4215.984	870.2985	11593.96	284.1839	1	113356.1	141134.2	11878.14	129256.1	137310.6	3.4043	0
6.5084	2.6628	3.234	12456.75	5089.857	1334.06	2185.92	4611.909	833	12682.75	283.5478	1	113829.4	142695.7	12966.3	129729.4	138521.8	3.1821	0
6.6297	2.6111	3.1551	11045.4	5063.567	1331.449	1877.68	3537.702	833	9705.514	286.9762	0.9373	116201.4	142093.9	9992.49	132101.4	138877.3	3.1168	0
5.8919	2.3561	2.6632	11300.18	5223.429	1347.327	2112.327	3372.343	842.7581	9132.987	438.9259	0.7346	119069.7	144541.6	9571.913	134969.7	141460.4	2.6429	0
5.2665	3.2484	4.0976	12421.57	5358.917	1360.784	2092.83	4307.85	899.1889	11846.59	285.5633	1	109812.9	137845	12132.15	125712.9	133939.7	4.0229	0
5.1092	3.0091	3.7446	12233.21	5393.015	1364.171	2258.135	3902.504	913.3908	10731.89	284.9453	1	112402.7	139319.5	11016.83	128302.7	135773.2	3.6864	0
6.34	2.704	3.2946	11706.74	5126.324	1337.682	2090.275	3917.463	833	10773.02	283.9254	1	114761.8	141718.8	11056.95	130661.8	138159.5	3.2486	0
7.2157	2.799	3.4346	10642.17	4936.597	1318.838	1276.953	3874.785	833	10646.37	284.2578	0.9716	114102.1	140932.7	10930.63	130002.1	137414.2	3.3853	0
7.378	3.4798	4.4387	11405.4	4901.443	1315.346	2236.214	3717.394	833	10222.83	286.5986	1	109052.6	135462					

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

7.5625	2.8985	3.5814	11187.47	4861.467	1311.376	1798.792	3980.84	833	10937.57	284.5487	0.9711	113133.6	140255.7	11222.12	129033.6	136643.3	3.5268	0
5.0187	2.5023	2.9972	12120.49	5412.619	1366.118	1796.048	4222.155	921.5556	11610.93	283.1572	1	115787.3	143581.3	11894.08	131687.3	139752.6	2.9562	0
4.9726	2.5725	3.1007	12516.51	5422.604	1367.11	2162.051	4237.036	925.7143	11651.85	283.3821	1	115212.2	143047.4	11935.23	131112.2	139205.5	3.0566	0
7.7033	2.9279	3.6248	10541.37	4830.943	1308.344	1334.469	3832.613	833	10523.71	284.7047	0.956	113173.2	139881.6	10808.41	129073.2	136402.4	3.571	0
7.3268	2.8125	3.4546	11658.33	4912.524	1316.447	2107.05	4087.314	833	11216.08	284.2262	0.9424	113623.5	141023.8	11500.31	129523.5	137321.9	3.4023	0
5.2771	3.1636	3.9724	12073.06	5356.634	1360.557	2203.867	3851.769	898.2379	10592.37	285.4807	1	111285.7	138063.5	10877.85	127185.7	134561.9	3.9087	0
8.0922	3.5197	4.4978	11354.3	4746.688	1299.976	1618.841	4453.791	833	12247.93	286.3778	1	107443.8	135878.1	12534.3	123343.8	131843.3	4.4076	0
5.2809	2.2214	2.5829	12312.11	5355.799	1360.474	2148.565	4147.379	897.8902	11369.08	282.2614	0.9214	118144.1	145695.4	11651.34	134044.1	141944.8	2.554	0
5.0368	2.959	3.6708	12471.44	5408.697	1365.728	2316.845	4058.245	919.9222	11160.18	284.7176	1	112515.1	139860	11444.9	128415.1	136175.9	3.6125	0
3.7175	2.3947	2.8385	12218.96	5694.552	1394.12	1603.805	4085.5	1038.981	11235.13	282.8463	1	116877.1	144295.1	11517.98	132777.1	140587.4	2.8031	0
5.6247	3.0665	3.8292	11986.44	5281.314	1353.076	2174.145	3909.036	866.8674	10749.55	285.1334	1	111942.8	138877.8	11034.98	127842.8	135325.6	3.7686	0
5.116	3.0642	3.8258	12484.22	5391.53	1364.023	2286.419	4127.471	912.7721	11350.55	285.0362	1	111570.8	139106.3	11635.59	127470.8	135360.9	3.7621	0
6.6459	3.0953	3.8716	11351.46	5060.057	1331.1	1942.499	3782.808	833	10402.72	285.2814	1	111943	138531	10688	127843	135090.6	3.8117	0
3.1556	3.0174	3.7568	12624.2	5816.281	1406.211	2047.01	3863.016	1089.681	10623.3	284.9887	1	112408.6	139216.9	10908.29	128308.6	135705.5	3.6989	0
7.7273	4.2632	5.5942	11634.62	4825.754	1307.829	1959.003	4307.034	833	11844.35	288.8733	1	101925.9	129959.1	12133.22	117825.9	126053.4	5.4699	0
7.4246	3.316	4.1973	11292.42	4891.331	1314.342	1529.112	4322.633	833	11887.25	285.7771	1	109260.3	137333.3	12173.03	125160.3	133414.8	4.1192	0
6.3645	2.8091	3.4495	11818.28	5121.021	1337.156	2308.458	3816.648	833	10495.79	284.3118	1	114121.4	140801.5	10780.1	130021.4	137331.4	3.4005	0
6.575	3.4761	4.4334	12165.83	4858.743	1311.105	2248.651	4512.334	833	12408.92	286.2087	1	107679.7	136274.8	12695.13	123579.7	132188.3	4.3442	0
6.547	2.5644	3.0887	11475.36	5081.483	1333.229	2026.081	3799.564	833	10382.54	283.5084	0.8651	116111.6	142677.6	10666.05	132011.6	139244.2	3.0495	0
5.0912	3.251	4.1014	11915.72	5396.917	1364.558	1765.699	4071.534	915.0158	11196.73	285.6755	1	110212.5	137594.9	11482.41	126112.5	133898.7	4.0304	0
7.7594	2.9656	3.6805	11100.98	4818.788	1307.137	1496.26	4243.797	833	11664.51	284.667	0.9814	112135.3	139984.4	11949.17	128035.3	136138	3.6195	0
8.3554	3.0419	3.6916	10369.54	4689.66	1294.311	1712.497	3438.074	833	9316.678	418.8352	0.7427	113491.1	139126.6	9735.513	129391.1	135992.7	3.6461	0
6.3391	2.6324	3.1891	11928.02	5126.533	1337.703	1857.364	4371.419	833	12021.4	283.5324	1	114501.1	142706	12304.94	130401.1	138745	3.1411	0
7.9679	3.0006	3.732	11079.31	4773.612	1302.65	1832.663	3935.38	833	10803.5	284.9066	0.9511	112422.7	139411.1	11088.41	128322.7	135841.7	3.6739	0
6.4103	2.5716	3.0993	11909.22	5111.106	1336.171	2380.346	3846.597	833	10571.29	283.5095	0.9775	115931.2	142686	10854.8	131831.2	139191.8	3.0591	0
5.4071	3.1658	3.9758	11618.38	5328.465	1357.76	1437.442	4206.205	886.5055	11561.07	285.3372	1	110637.2	138389.6	11852.4	126537.2	134574.4	3.9064	0
8.1946	3.057	3.8152	10905.95	4724.493	1297.771	1635.685	4013.002	833	11008.88	285.0632	0.9362	111848.9	139042.8	11293.95	127748.9	135407.3	3.7536	0
7.957	2.9246	3.3774	10215.63	4775.991	1302.886	1682.247	3219.506	833	8702.684	280.8951	0.7101	115409.3	140616.9	9307.579	131309.3	137620.8	3.3474	0
6.4956	3.1165	3.9029	11504.43	5092.611	1334.334	2043.942	3798.545	833	10445.98	285.3459	1	111748.7	138390	10731.32	127648.7	134925.6	3.842	0
7.286	3.0802	3.8495	11283.16	4921.376	1317.326	1588.63	4220.833	833	11607.29	285.0505	1	111278.9	139071.3	11892.34	127178.9	135243.1	3.7837	0
5.1595	3.2155	4.049	12198.48	5382.119	1363.089	2010.682	4131.741	908.8524	11362.29	285.5322	1	110382.7	137930	11647.82	126282.7	134181.1	3.9786	0
7.312	2.7953	3.4293	10897.63	4915.728	1316.765	1349.619	4080.518	833	11180.51	284.1743	0.9124	113781	141145.7	11464.69	129681	137455.2	3.3778	0
6.9247	2.6737	3.2499	11732.69	4999.64	1325.1	2258.504	3914.443	833	10703.15	283.8335	0.8755	115044.9	141931.9	10986.98	130944.9	138395.2	3.2053	0
4.4609	3.34	4.2327	11011.42	4666.799	1292.041	1305.354	4512.226	833	12408.62	285.7693	1	108737.6	137332	12694.39	124637.6	133245.7	4.1502	0
8.5307	2.7104	3.3041	12284.93	5518.448	1376.629	2076.739	3945.484	965.6336	10850.08	283.9367	1	114661.1	141695.2	11134.02	130561.1	138111.1	3.2574	0
5.8898	2.7124	3.3069	11783.18	5223.876	1347.371	2184.535	3782.455	842.9443	10401.75	284.001	1	114940	141525.7	10685.76	130840	138086	3.2621	0
5.2232	3.0975	3.875	11983.56	5368.297	1361.716	1736.561	4211.894	903.0956	11582.71	285.1108	1	111160.2	138928	11867.82	127060.2	135107.7	3.8085	0
5.276	3.1841	4.0027	12009.49	5356.869	1360.581	1940.783	4050.917	898.3359	11140.03	285.4637	1	110771.1	138096.6	11425.49	126671.1	134418.7	3.935	0
5.2563	2.8264	3.4751	12748.75	5361.133	1361.004	2764.253	3960.25	900.1119	11089.69	284.316	1	113728	140803	11175	129628	137205.7	3.4236	0
6.5771	2.54	2.8866	11226.59	5074.96	1332.581	2271.845	3312.2	833	10942.81	502.6221	0.6952	117951.8	143297.2	9445.403	133851.8	140256.7	2.8637	0
6.2549	2.5143	3.0149	12233.48	5144.77	1339.514	2089.012	4425.18	833	12152.28	283.1329	0.9588	115336.4	143671.8	12435.42	131236.4	139668.9	2.9716	0
6.7536	2.8739	3.5453	11959.53	5036.713	1328.782	1918.454	4440.586	833	12211.62	284.2913	1	112493.6	140889.5	12495.91	128393.6	136867.1	3.4857	0
6.6298	2.619	3.1693	11219.19	5063.548	1331.447	1529.575	4059.617	833	11145.92	283.5969	0.9538	115181.6	142511.1	11429.52	131081.6	138831.9	3.1252	0
7.718	2.9573	3.6682	10533.45	4827.776	1308.03	1290.124	3872.519	833	10645.07	284.7854	0.9844	112864.3	139694.1	10929.86	128764.3	136175.8	3.6126	0
6.5572	3.2073	4.0367	11080.91	5079.268	1333.009	1793.144	3640.487	833	10011.34	285.7175	1	113230.3	137517.3	10297.06	127220.3	134202.7	3.9746	0
5.8752	2.3836	2.8221	11252.17	5227.05	1347.687	1537.348	3893.82	844.2664	10661.17	282.8728	0.899	117343.8	144187.8	10944.05	133243.8	140664.9	2.7888	0
6.8339	3.5019	4.4715	12053.22	5019.327	1327.055	2037.589	4434.252	833	12194.2	286.3296	1	107616.5	135997	12480.52	123516.5	131979.5	4.3825	0
6.4115	2.541	3.0542	11574.35	5110.85	1336.145	2158.791	3733.569	833	10232	283.448	0.9163	116394.1	142809.6	10515.45	132294.1	139424.7	3.0164	0
6.9632	2.6982	3.286	11457.37	4991.314	1324.273	2242.149	3664.636	833	10043.77	283.9993	0.9176	115286.1	141513.9	10327.77	131186.1	138189.4	3.2431	0
5.4618	2.247	2.5334	11714.93	5316.612	1356.582	2351.587	3406.583	881.5689	9270.916	397.4906	0.8023	119704.6	145273	9668.407	135604.6	142160.8	2.5144	0
4.563	2.9071	3.5942	12514.82	5511.349	1375.924	2092.46	4170.413	962.6766	11468.64	284.5029	1	112719.6	140372.8	11753.14	128619.6	136589.4	3.5367	0
8.0227	2.9757	3.487	10820.38	4761.757	1301.472	2275.324	3246.822	833	8864.122	559.8843	0.8505	114757.2	140081.2	9424.006	130657.2	137047.6	3.4526	0
7.1883	2.7929	3.4258	11850.93	4942.545	1319.429	2037.049	4316.904	833	11862.15	284.0755	0.9738	113353.4	141399.6	12146.22	129253.4	137489.8	3.3715	0
7.195	2.7494	3.299	10894.81	4941.091	1319.284	1942.539	3456.896	833	9450.997	366.5776	0.8736	115535.4	141253	9817.575	131435.4	138092.7	3.2608	0
7.312																		

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

6.0967	2.6818	3.2619	12349.92	5179.055	1342.92	2402.821	4190.123	833	11522.84	283.7562	1	114443.3	142149.9	11806.6	130343.3	138349.4	3.2137	0
5.1956	2.7296	3.3324	12151.35	5374.291	1362.311	2030.328	4076.823	905.5923	11211.26	283.9536	1	114274.1	141669.3	11495.22	130174.1	137969	3.2835	0
4.3832	2.59	3.1265	11936.59	5550.305	1379.793	1758.508	3867.08	978.9019	10634.47	283.5633	1	115745.2	142563.3	10918.04	131645.2	139048.8	3.0854	0
6.2486	3.3728	4.2809	11711.56	5146.147	1339.651	1936.609	4054.15	833	11148.92	286.0851	1	109293.5	136628.5	11435	125193.5	132947.6	4.2049	0
6.0082	2.4246	2.8826	11687.05	5198.216	1344.823	2081.76	3827.255	833	10485.44	283.0291	0.9104	117138.7	143807.2	10768.47	133038.7	140340.8	2.8483	0
7.0974	2.7113	3.2431	11499.98	4962.231	1321.384	2516.661	3464.706	833	9448.664	366.2383	0.8334	115834.9	141549.8	9814.903	131734.9	138390.3	3.2062	0
6.4237	2.5456	3.061	11399.3	5108.205	1335.883	1914.204	3806.014	833	10432.31	283.4395	0.9196	116226.1	142841.8	10715.75	132126.1	139392.4	3.0223	0
6.1593	2.4641	2.9407	11157.88	5165.478	1341.571	1855.559	3560.269	833	9747.92	283.2453	0.899	117317	143248.2	10031.17	133217	140019.1	2.9073	0
7.9819	2.9929	3.7207	10913.38	4770.592	1302.35	1841.817	3763.623	833	10321.31	284.9509	0.9294	112796.5	139302.8	10606.26	128696.5	135888.6	3.6653	0
4.1408	2.4968	2.9889	12022.03	5602.825	1385.01	2084.495	3546.926	1000.777	9754.048	283.3552	1	117056.4	142993.8	10037.4	132956.4	139762.8	2.9544	0
6.8661	3.0154	3.7538	11074.82	5012.354	1326.362	1463.072	4038.029	833	11104.58	284.9116	1	112111.6	139401.1	11389.5	128011.6	135734.8	3.6935	0
4.589	2.4756	2.9579	12422.21	5505.707	1375.364	2112.159	4066.656	960.3269	11183.31	283.1191	1	116278.1	143644.5	11466.42	132178.1	139953.5	2.9194	0
5.3817	2.2687	2.6527	11575.26	5333.969	1358.306	1661.697	3930.492	888.798	10798.1	282.4761	0.9685	118153	145133.6	11080.58	134053	141566.7	2.6234	0
6.9387	2.6974	3.2847	10850.85	4996.607	1324.798	1714.898	3579.552	833	9818.23	284.0254	0.9329	115440.6	141442.9	10102.26	131340.6	138191	3.2428	0
6.0559	2.4409	2.9066	12151.82	5187.89	1343.797	2045.899	4339.231	833	11893.44	282.924	0.9189	116080.5	144156.9	12176.36	131980.5	140237.3	2.8673	0
4.9553	2.8693	3.5833	12359.24	5426.36	1367.483	2612.365	3623.749	927.279	9965.31	284.5859	1	113996.8	140146.7	10249.9	129896.8	136847.2	3.4894	0
6.031	2.4087	2.859	11807.28	5193.291	1344.334	2320.14	3714.516	833	10118.38	283.0167	0.8161	117506.6	143808	10401.39	133406.6	140459.8	2.8265	0
6.8783	2.6969	3.284	11086.71	5009.711	1326.1	1912.678	3603.221	833	9897.532	284.0135	0.9648	115392.6	141474.2	10181.55	131292.6	138196.7	3.2417	0
4.1991	2.9193	3.6121	11744.1	5590.19	1383.755	1537.757	3834.884	995.5139	10545.93	284.6728	1	113226.2	139956.8	10830.6	129126.2	136470.4	3.5585	0
6.8062	3.2332	4.0751	10659.38	4619.208	1287.314	1326.609	4191.254	833	11520.38	285.5654	0.9822	110142.3	137848.3	11805.94	126042.3	134047.9	4.003	0
4.2406	2.5749	3.1042	12922.63	5870.75	1411.621	2433.718	3692.174	1112.367	10153.48	283.5712	1	116180.3	142517.3	10437.05	132080.3	139157.6	3.0654	0
6.4649	2.5389	3.0511	12423.28	5099.264	1334.995	2752.157	4001.863	833	10928.68	283.358	0.8552	115951.5	143063.6	11212.04	131851.5	139454.4	3.011	0
4.6443	2.6937	3.2795	12885.37	5493.737	1374.175	2073.148	4586.964	955.3416	12614.15	283.6559	1	113633.9	142431.7	12897.81	129533.9	138279.9	3.2265	0
6.9376	3.3141	4.1945	11172.97	4996.856	1324.823	1381.627	4234.66	833	11645.32	285.8105	1	109430.9	137262.1	11931.13	125330.9	133421.4	4.118	0
8.5794	3.2495	4.0991	10946.31	4641.136	1289.492	1768.12	4012.557	833	11034.34	285.6963	0.9987	110329.4	137549.4	11320.04	126229.4	133905.5	4.0291	0
4.4935	2.8784	3.552	12720.81	5526.401	1377.419	2110.338	4335.703	968.9461	11923.19	284.346	1	112646.4	140753.9	12207.53	128546.4	136824.3	3.4936	0
6.023	2.6671	3.2402	12356.38	5195.018	1344.505	2583.177	3998.675	833	10996.36	283.7745	1	114903.9	142084.1	11280.13	130803.9	138453	3.1947	0
5.9702	2.5989	3.1398	11899.48	5206.46	1345.642	1704.753	4404.939	835.6906	12113.6	283.4123	1	114701.4	142998.4	12397.01	130601.4	139007.8	3.0929	0
4.4746	2.3167	2.7235	12366.93	5530.512	1377.828	1907.293	4178.639	970.6584	11491.26	282.5621	1	117317	144990.8	11773.82	133217	141200.8	2.6905	0
6.8433	3.0957	3.8723	11802.21	5017.277	1326.851	2164.527	4058.544	833	11161.02	285.1685	1	111447.6	138793.8	11446.19	127347.6	135109.3	3.8083	0
5.2231	2.917	3.6087	11499.96	5368.322	1361.718	1609.228	3855.583	903.1061	10602.86	284.657	1	113207.3	139994.8	10887.51	129107.3	136490.1	3.5549	0
5.2457	2.6024	3.1448	12024.26	5363.437	1361.233	2155.986	3840.529	901.0714	10561.46	283.6136	1	115696.2	142441.3	10845.07	131596.2	138950.2	3.1035	0
4.4911	2.2608	2.6409	12034.18	5310.255	1355.951	2467.906	3619.148	878.9212	9870.309	282.5451	0.8341	118831.6	144884.4	10152.85	134731.6	141616.2	2.6143	0
6.8722	2.6727	3.215	11188.77	5011.03	1326.231	2124.104	3492.403	833	9972.19	327.906	0.9186	115935.4	141735.5	9900.096	131835.4	138548.7	3.1771	0
5.6239	2.6318	3.1881	11793.65	5281.497	1353.095	1920.603	3969.515	866.9436	10916.17	283.6675	1	115232.9	142332.7	11199.84	131132.9	138727.5	3.1443	0
5.4902	3.2173	4.0516	11906.27	5310.45	1355.97	1862.937	4095.909	879.0024	11263.76	285.5537	1	110432.3	137881.6	11549.31	126332.3	134163.8	3.9817	0
7.1069	2.6863	2.9413	10396.11	4960.178	1321.18	1811.035	3068.72	833	8284.274	275.7257	0.6935	11967.9	142867.9	9000	133867.9	139212.7	2.9252	1
6.2719	2.9948	3.7235	12151.7	5141.082	1339.148	2227.385	4209.089	833	11575	284.7754	1	111966.1	139725.8	11859.77	127866.1	135908.2	3.6617	0
7.9023	3.1777	3.9932	11114.8	4787.826	1304.062	1687.231	4100.681	833	11276.87	285.4212	1	110732.7	138195	11562.29	126632.7	134473.1	3.925	0
6.1945	2.8104	3.4516	11808.6	5157.852	1340.814	1836.743	4238.189	833	11655.02	284.1605	1	113352.3	141191.5	11939.18	129252.3	137348.2	3.3974	0
7.3155	2.857	3.5203	11521.49	4914.975	1316.69	1810.831	4243.994	833	11669.51	284.3109	0.9938	112979.5	140833.3	11953.82	128879.5	136985.4	3.464	0
5.5049	3.7261	4.8022	12254.64	5307.276	1355.655	1651.673	4660.355	877.6804	10285.98	286.94	1	105478.7	134481.6	13102.92	121378.7	130263.8	4.6974	0
6.4873	2.5359	3.0267	11140.73	5094.428	1334.514	1941.916	3534.874	833	9627.163	309.6548	0.8132	116916.5	142753.4	9936.818	132816.5	139554.7	2.9926	0
7.0283	2.7162	3.3126	11479.95	4977.206	1322.871	1929.253	4015.62	833	111004.9	283.9358	0.9162	114514.7	141703.5	11288.83	130414.7	138069.7	3.265	0
6.5619	2.6175	3.1671	11052.53	5078.266	1332.909	1520.331	3886.023	833	10680.55	283.6493	0.9799	115499.5	142363.7	10964.2	131399.5	138834.3	3.1247	0
5.3853	3.1348	3.9299	12031.06	5333.174	1358.227	1927.218	4121.976	888.4671	11335.44	285.2708	1	111029.6	138550.4	11620.71	126929.6	134809.6	3.8632	0
5.298	2.9162	3.6076	11791.48	5352.101	1360.107	1501.06	4279.862	896.3499	11769.62	284.4905	1	112452.3	140406.4	12054.11	128352.3	136526.2	3.5483	0
6.1373	3.1608	3.9684	12338.26	5170.247	1342.045	2110.454	4480.511	833	12321.41	285.2042	1	110187.8	138694.4	12606.61	126087.8	134636.3	3.895	0
6.1219	2.6479	3.2118	11694.05	5173.581	1342.376	2048.418	3894.674	833	10710.36	283.7466	1	115242.3	142136.4	10994.11	131142.3	138597.4	3.1682	0
5.2314	2.9084	3.5961	11842.97	5366.528	1361.54	2025.014	3785.529	902.359	10410.21	284.6555	1	113399.7	139994.6	10694.86	129299.7	136551.9	3.5435	0
6.9312	2.667	3.2401	11948.16	4998.243	1324.961	2468.651	3921.303	833	10700.54	283.8116	0.8431	115098.9	141983.3	10984.36	130998.9	138447.4	3.1957	0
5.5759	2.5905	3.1273	12183.85	5291.895	1354.127	2173.678	4090.874	871.2742	11249.91	283.4901	1	115335.9	142769.3	11533.4	131235.9	139056.7	3.0839	0
6.6282	2.7268	3.3283	11777.56	5063.891	1331.481	2152.812	3994.375	833	10984.53	283.9738	1	114444.6	141613.1	11268.5	130344.6	137985.7	3.2804	0
6.8054	2.6629	3.2341	11635.34	5025.49	1327.667	1900.82	4146.358	833	11377.35	283.7127	0.941							

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

4.4103	3.0104	3.7464	11990.93	5544.44	1379.211	1951.911	3736.907	976.4592	10276.5	285.016	1	112689	139150.5	10561.51	128589	135750.8	3.6905	0
6.5568	2.5912	3.1282	11624.02	5079.366	1333.018	1839.097	4137.54	833	11352.2	283.4798	0.9392	115263.5	142799.2	11635.67	131163.5	139053.7	3.0845	0
5.3872	2.8724	3.5429	11242.79	5332.78	1358.188	1325.654	3935.869	888.3028	10823.64	284.4779	1	113411.9	140420	11108.12	129311.6	136844.3	3.4899	0
5.6868	2.5869	3.122	11831.37	5267.854	1351.739	1653.075	4295.438	861.2611	11812.46	283.4098	1	114993.7	142989.6	12095.87	130893.7	139095.9	3.0767	0
5.2428	2.7287	3.3309	11901.7	5364.056	1361.295	2015.738	3857.281	901.3292	10607.52	284.0287	1	114677.6	141469.2	10891.55	130577.6	137963.2	3.2846	0
7.3345	2.796	3.4302	10951.07	4910.862	1316.282	1839.981	3648.944	833	9989.317	284.3357	0.8965	114555.4	140729	10273.65	130455.4	137421.9	3.3839	0
3.6492	2.9282	3.6252	12363.22	5709.349	1395.59	2015.479	3795.664	1045.144	10438.08	284.7176	1	113227.2	139850	10722.79	129127.2	136398.3	3.5717	0
5.5074	2.3123	2.7171	12331.84	5306.739	1355.602	2014.909	4375.135	877.4567	12024.7	282.4912	0.9795	116997.5	145204.7	12307.19	132897.5	141243	2.6828	0
4.0921	3.0247	3.7676	12768.29	5613.374	1386.058	2361.208	4000.484	1005.17	11001.33	284.9577	1	112105.6	139291.8	11286.29	128005.6	135658.8	3.7074	0
6.0004	3.0372	3.7861	12100.1	5199.912	1344.991	1899.424	4420.772	833	12157.12	284.8286	1	111256.8	139598.8	12441.95	127156.8	135593.7	3.7194	0
5.7306	2.6285	3.1832	11512.03	5258.369	1350.797	1953.573	3689.978	857.3106	10147.44	283.7519	1	115764.3	142095.5	10431.19	131664.3	138737.7	3.1425	0
8.3564	3.7394	4.8218	11517.05	4689.44	1294.29	1964.425	4333.899	833	11918.22	287.1513	1	105946.4	134051.8	12205.38	121846.4	130122.9	4.7232	0
5.7349	2.7372	3.3437	12359.13	5257.432	1350.704	1915.171	4576.899	856.9204	12586.48	283.7995	1	113313.1	142083.3	12870.28	129213.1	137940.4	3.2888	0
6.286	2.7117	3.306	11697.11	5138.034	1338.845	2191.884	3793.348	833	10431.71	283.9949	1	114925.5	141541.2	10715.71	130825.5	138091.8	3.261	0
7.3475	2.8126	3.4548	11480.47	4908.042	1316.002	1927.727	4093.7	833	11226.91	284.2252	0.9301	113615.4	141026.6	11511.13	129515.4	137321.1	3.4024	0
6.1028	3.0975	3.8749	10645.21	5177.734	1342.788	1133.994	3755.695	833	10328.17	285.3001	1	111973.9	138487.4	10613.47	127873.9	135070.9	3.8153	0
5.8787	2.3995	2.8456	12270.14	5226.292	1347.611	2113.352	4336.2931	843.9504	11901.83	282.7881	0.9437	116398.4	144483	12184.61	132298.4	140560.8	2.8079	0
5.2984	2.2081	2.5632	11968.36	5352.018	1360.099	1942.778	4015.151	896.3157	10955.52	282.2589	0.8415	118523.4	145661.2	11237.78	134423.4	142043.8	2.5358	0
6.3166	2.4662	2.4862	10836.93	5131.404	1338.187	2124.982	3007.359	833	8112.608	887.3918	0.6842	120843.9	145743.9	9000	136743.9	142321	2.4849	1
5.93	2.3816	2.4162	10900.31	5215.168	1346.507	2093.729	3003.586	839.3175	8185.238	814.7618	0.8224	121116.6	146016.6	9000	137016.6	142707.2	2.4141	1
6.0955	2.4507	2.9211	12482.77	5179.317	1342.946	2579.03	4146.475	833	11362.52	283.0164	0.9146	116354.8	143900.3	11645.54	132254.8	140151.6	2.883	0
8.0818	3.0765	3.8442	11423.82	4748.934	1300.199	1496.703	4642.98	833	12766	284.8651	0.9921	110554.8	139505.7	13050.86	126454.8	135304.6	3.7724	0
5.7301	2.3783	2.8144	12309.79	5258.47	1350.807	2028.686	4412.474	857.3526	12128.11	282.6944	0.9814	116413.8	144724.6	12410.8	132313.8	140729.6	2.777	0
4.748	2.0594	2.331	11804.57	5471.265	1371.943	2084.802	3528.577	945.9817	9647.534	298.9454	0.8746	120616	146462.5	9946.48	136516	143260.7	2.3125	0
7.3893	2.8318	3.483	11422.82	4898.987	1315.103	2133.783	3839.948	833	10538.67	284.3817	0.9452	113915.8	140638.9	10823.05	129815.8	137155	3.4329	0
6.9387	2.9026	3.5875	11105.57	4996.618	1324.8	1531.477	4017.678	833	11048.62	284.5468	1	113028.9	140262.1	11333.17	128928.9	136613.9	3.5322	0
4.2069	2.735	3.3403	12578.65	5588.516	1383.589	2447.658	3762.071	994.8167	10345.7	284.0838	1	114799.8	141329.6	10629.78	130699.8	137907.9	3.2947	0
4.9849	2.4917	2.9817	12555.82	5419.934	1366.845	2017.787	4424.654	924.6026	12167.8	283.0579	1	115502.2	143853.1	12450.86	131402.2	139845.2	2.9392	0
5.8088	2.4507	2.9212	12442.44	5241.421	1349.114	2174.971	4424.68	850.2517	12167.87	282.9248	1	115822.3	144173.1	12450.79	131722.3	140165.2	2.8805	0
5.9694	2.47	2.9496	11347.4	5206.623	1345.658	1572.626	3984.734	835.7585	10957.31	283.1266	0.9964	116471.3	143611.8	11240.44	132371.3	139993.5	2.912	0
5.1608	2.166	2.4845	12013.11	5381.819	1363.059	2423.235	3534.275	908.7276	9631.223	304.1934	0.822	119804.4	145639.9	9935.416	135704.4	142441.7	2.4628	0
8.238	3.0619	3.8225	11158.17	4715.091	1296.837	2019.804	3891.44	833	10667.31	285.1305	0.9211	112031.9	138884.4	10952.44	127931.9	135358.8	3.7625	0
5.9569	2.7619	3.3802	12236.26	5209.333	1345.927	2026.978	4415.132	836.8872	12141.61	283.9377	1	113411.9	141737.5	12425.55	129311.9	137737.7	3.326	0
7.4708	2.8725	3.5432	11397.76	4881.327	1313.348	1926.045	4042.042	833	11105.97	284.4395	0.9717	113226.2	140516.6	11390.41	129126.2	136850.1	3.4888	0
6.8331	2.6212	3.261	11643.07	5019.488	1327.071	1896.974	4164.541	833	11437.36	283.7651	0.9606	114504.2	142125.3	11721.13	130404.2	138352.2	3.2132	0
8.1372	3.0536	3.8102	10737.59	4736.936	1299.007	1390.94	4075.704	833	11192.1	285.0249	0.9579	111756.3	139133.4	11477.13	127656.3	135439	3.7478	0
7.2736	2.8159	3.4596	10978.18	4924.045	1317.591	1875.563	3625.981	833	9962.893	284.4064	0.9719	114416.4	140563.7	10247.3	130316.4	137265.1	3.4127	0
7.1406	3.0167	3.7558	11301.97	4952.876	1320.455	1918.285	3875.355	833	10657.23	284.9815	1	112391.9	139234.1	10942.21	128291.9	135711.8	3.6977	0
5.3493	2.7734	3.3969	12222.91	5340.984	1359.003	2082.746	4146.46	891.72	11402.77	284.0725	1	113806.9	141393.7	11686.84	129706.9	137631.7	3.3454	0
6.4107	2.5302	3.036	11239.68	5111.007	1336.161	2008.679	3548.829	833	9706.654	286.3619	0.8811	116834.8	142727.8	9993.016	132734.8	139511.1	3.0006	0
4.6311	2.8757	3.5478	12293.46	5496.588	1374.458	2379.751	3684.135	956.5289	10311.38	284.5845	1	113838.1	140154.1	10415.96	129738.1	136801.2	3.4978	0
7.6833	3.1052	3.8865	11831.29	4835.284	1308.775	1968.334	4483.892	833	12330.7	285.023	1	110614.3	139130	12615.73	126514.3	135069	3.8157	0
5.8775	2.3741	2.808	11851.7	5226.548	1347.637	2404.252	3627.202	844.0574	9906.866	282.9235	0.8574	117918.3	144008	10189.79	133818.3	140727.9	2.7773	0
7.2238	2.7555	3.3705	11671.99	4934.853	1318.665	2447.552	3735.922	833	10209.61	284.1704	0.8667	114728.2	141122	10493.78	130628.2	137744.1	3.3248	0
6.2915	2.5416	3.0553	11628.47	5136.837	1338.727	1510.358	4407.552	833	12114.96	283.2261	0.9823	115147.5	143445.7	12398.19	131047.5	139454.8	3.0109	0
5.8564	2.4189	2.8742	12155.57	5231.108	1348.09	2401.521	3926.893	845.9563	10794.96	282.9754	0.9855	116978.8	143956.7	11077.93	132878.8	140390.7	2.8391	0
6.8648	3.5139	4.4892	11703.2	5012.628	1326.39	1643.34	4485.842	833	12336.07	286.3435	1	107432.6	135955.1	12622.41	123332.6	131891.9	4.3986	0
6.4642	2.8047	3.4432	12492.1	5099.428	1335.011	2479.862	4342.795	833	11942.69	284.1031	1	113208.9	141335.7	12226.79	129108.9	137399.9	3.3879	0
6.1761	2.8834	3.5592	11751.82	5161.853	1341.211	2212.44	3801.318	833	10453.63	284.5658	1	113567.2	142025.4	10738.2	129467.2	136748.7	3.5074	0
7.0113	2.7582	3.3746	11946.12	4980.885	1323.237	2024.938	4382.063	833	12047.35	283.9379	0.9886	113503.1	141734.4	12331.29	129403.1	137764.9	3.321	0
5.5259	2.7721	3.3951	12077.21	5302.732	1355.204	2029.546	4111.94	875.7879	11307.84	284.081	1	113878.7	141370.6	11591.92	129778.7	137639.2	3.344	0
5.676	2.7965	3.431	11556.85	5270.19	1351.972	1659.849	4010.603	862.2341	11029.16	284.1985	1	113870.7	141084.1	11313.36	129770.7	137442.3	3.3802	0
4.8831	2.7899	3.4214	12152.86	5441.993	1369.035	1783.421	4222.618	933.7899	11612.2	284.0991	1	113540.3	141336.6	11896.3	129440.3	137507.2	3.3683	0
6.1853	2.4881	2.9763	12078.96	5159.85	1341.012	2389.657	3953.441</											

6.2835	2.5477	3.0642	12224.2	5138.583	1338.9	2042.286	4469.428	833	12287.83	283.2251	0.9893	114986.4	143457.5	12571.05	130886.4	139410.8	3.0189	0
6.5104	3.5732	4.5765	11597.62	5089.417	1334.017	1778.651	4160.537	833	11441.48	286.6947	1	107543.9	135172	11728.17	123443.9	131396.7	4.4895	0
5.3437	2.2274	2.5916	11146.37	5342.19	1359.123	1442.377	3708.459	892.2221	10139.12	282.4052	0.8742	118915.3	145236.8	10421.52	134815.3	141882.1	2.5655	0
4.9139	3.0525	3.8085	12062.38	5435.313	1368.372	2021.685	3904.001	931.008	10736.01	285.0888	1	112061.3	138982.4	11021.1	127961.3	135434.7	3.7485	0
7.1617	2.744	3.274	10848.59	4948.296	1320	1918.091	3427.206	833	9377.067	389.0125	0.8868	115698	141364	9766.079	131598	138220.3	3.2374	0
5.948	2.5402	3.0531	11699.27	5211.27	1346.119	1838.68	4063.508	837.6941	11174.65	283.3333	1	115778.6	143136.6	11457.98	131678.6	139448.3	3.0121	0
5.4878	2.7922	3.4247	11803.91	5310.985	1356.023	1942.592	3913.083	879.2254	10760.98	284.22	1	114080	141025.2	11045.2	129980	137469.7	3.3751	0
6.5602	2.664	3.2356	11368.32	5078.622	1332.944	1919.484	3802.268	833	10456.2	283.8323	0.9996	115283	141923	10740.03	131183	138465.8	3.1924	0
7.4211	2.7796	3.1874	10433.87	4892.096	1314.418	1754.185	3238.174	833	8765.72	572.8694	0.7287	116406.8	141645.4	9338.59	132306.8	138639.3	3.1605	0
6.3727	2.5524	3.0712	12075.39	5119.246	1336.979	1892.958	4491.209	833	12337.42	283.2346	0.9662	114916.5	143437.2	12620.66	130816.5	139374.6	3.0256	0
7.0002	2.6797	3.2586	11257.47	4983.287	1323.475	1997.293	3718.415	833	10127.71	283.9263	0.8142	115376.3	141687.9	10411.63	131276.3	138336.4	3.2161	0
6.1058	2.4588	2.9331	11520.35	5177.073	1342.723	1711.227	4054.327	833	11118.73	283.0711	0.9298	116452.2	143754	11401.8	132352.2	140083.8	2.8955	0
6.5441	3.2239	4.0614	11969.74	5082.108	1333.291	2207.614	4111.731	833	11307.26	285.5687	1	110352.3	137845.2	11592.83	126252.3	134113.4	3.991	0
7.8297	2.9096	3.5117	11251.71	4803.572	1305.626	2466.665	3440.846	833	9365.783	398.194	0.8048	114433	140097	9763.977	130333	136954	3.4698	0
6.4485	3.3771	4.2873	11923.31	5102.824	1335.348	2119.226	4130.912	833	11360.01	286.0642	1	109123.9	136669.9	11646.07	125023.9	132921.1	4.2098	0
6.4545	2.6274	3.1817	12043.65	5101.524	1335.219	1827.469	4544.436	833	12497.08	283.457	0.9992	114227.4	142908	12780.54	130127.4	138793.9	3.1321	0
6.4695	3.0883	3.8612	10614.78	4664.935	1291.856	1834.214	3588.776	833	9767.847	285.3535	0.804	112409.6	138362.8	10053.2	128309.6	135126.7	3.8051	0
5.825	3.6147	4.6376	11689.04	5237.918	1348.766	1894.703	3956.861	848.7928	10881.38	286.9321	1	107578.5	134646.8	11168.31	123478.5	131051.7	4.5528	0
4.4862	1.9711	2.1974	11875.09	5527.989	1377.577	2054.962	3542.958	969.6073	9625.97	302.9504	0.7784	121338.3	147167.2	9928.92	137238.3	143971.1	2.1822	0
7.5648	3.2278	4.0671	11152.16	4860.968	1311.326	1584.801	4160.068	833	11440.19	285.5603	1	110236.3	137862.1	11725.75	126136.3	134087.6	3.9957	0
3.7894	2.9275	3.6242	12378.2	5678.966	1392.572	2212.8	3659.373	1032.489	10063.28	284.7683	1	113476.7	139724.7	10348.05	129376.7	136393.7	3.5726	0
6.9462	3.3221	4.2062	12134.18	4994.993	1324.638	2443.221	4136.325	833	11374.9	285.8807	1	109543.3	137104.1	11660.78	125443.3	133350.5	4.131	0
4.9928	2.1625	2.4961	12304.74	5418.22	1366.674	2032.457	4161.501	923.8888	11436.94	282.0612	0.9781	118559.3	146178.3	11719	134459.3	142406	2.4694	0
6.0904	2.4654	2.9428	12092.96	5180.404	1343.054	2115.906	4218.596	833	11583.3	283.0395	0.9555	116093.9	143860.2	11866.34	131993.9	140040.5	2.9034	0
8.1651	3.0305	3.776	11358.24	4730.903	1298.408	2379.886	3714.044	833	10166.6	285.0994	0.8949	112603.4	138955.1	10451.7	128503.4	135590.7	3.7199	0
5.9461	2.4137	2.8664	11821.84	5211.688	1346.161	2093.06	3931.061	837.8681	10781.16	282.9595	0.9307	117029.1	143993.2	11064.12	132929.1	140431.7	2.8316	0
7.1438	2.8016	3.4386	11545.08	4952.179	1320.386	1915.516	4121.996	833	11333.31	284.1747	0.9914	113631.8	141149.3	11617.49	129531.8	137409.8	3.3862	0
6.4265	2.9224	3.6168	12002.09	5107.599	1335.822	1983.45	4340.22	833	11935.61	284.4874	1	112295.6	140415.7	12220.1	128195.6	136482	3.5564	0
3.6492	3.2272	4.0663	12498.39	5709.341	1395.589	1797.221	4149.101	1045.14	11410.03	285.5633	1	110260.1	137855.7	11695.59	126160.1	134090.8	3.9951	0
5.7721	2.3397	2.7574	11691.18	5249.387	1349.905	2112.838	3723.478	853.5696	10155.26	282.781	0.8347	118022.9	144361	10438.05	133922.9	141001	2.7272	0
5.587	3.1054	3.8867	12472.72	5289.493	1353.889	2266.722	4290.344	870.274	11798.45	285.1041	1	110958.4	138941.9	12083.55	126858.4	135052.2	3.8187	0
6.0994	3.159	3.9657	11882.09	5178.474	1342.862	1819.039	4306.714	833	11843.47	285.2721	1	110511.6	138540.3	12128.74	126411.6	134636.1	3.8951	0
7.3118	2.8348	3.4876	11033.49	4915.784	1316.771	1223.936	4342.001	833	11933.93	284.2022	0.9802	112980	141098.1	12218.14	128880	137165.1	3.431	0
5.9863	2.4206	2.8767	12002.01	5202.968	1345.295	1985.774	4231.741	834.236	11597.92	282.8911	0.9174	116434.3	144215.1	11880.81	132334.3	140390.6	2.8392	0
7.1214	2.7068	3.1954	10823.13	4957.033	1320.868	1900.207	3410.017	833	9267.676	420.4596	0.7828	116161.9	141750	9688.135	132061.9	138631.4	3.162	0
5.8887	2.8599	3.5246	12440.75	5224.124	1347.396	2337.643	4286.538	843.0478	11787.98	284.3042	1	112879.3	140851.6	12072.29	128779.3	136965.5	3.4677	0
5.3145	2.6256	3.179	12453.53	5348.516	1359.751	2319.233	4129.174	894.8569	11355.23	283.5926	1	114992.7	142531.6	11638.82	130892.7	138785	3.1338	0
5.6296	2.3022	2.6636	11622.78	5280.249	1352.971	2230.704	3490.435	866.4239	9527.289	333.459	0.8473	118895.3	144656	9860.748	134795.3	141481.9	2.6389	0
6.0729	2.9799	3.7016	12636.21	5184.214	1343.432	2660.202	4213.362	833	11586.75	284.725	1	112074.4	139845.8	11871.47	127974.4	136024.4	3.6403	0
6.5835	3.414	4.3416	11733.27	5268.571	1351.811	1914.752	3934.573	861.5597	10820.08	286.2767	1	109183.5	136189.9	11106.36	125083.5	132614.8	4.266	0
5.3783	2.462	2.9377	11776.27	5334.693	1358.378	1984.449	3807.653	889.0997	10471.05	283.1557	1	116855.3	143509.5	10754.2	132755.3	140047.7	2.9021	0
5.3846	2.4453	2.9132	12395.26	5333.329	1358.243	2276.885	4136.275	888.5313	11374.76	282.9974	1	116388.5	143946.3	11657.76	132288.5	140193.6	2.8753	0
7.6772	2.9212	3.6149	11365.55	4836.606	1308.907	2006.776	3978.263	833	10924.19	284.6258	0.9572	112964.8	140073.6	11208.81	128864.8	136465.5	3.5594	0
4.675	2.647	3.2105	12340.95	5487.081	1373.514	2073.434	4052.562	952.5692	11143.97	283.6893	1	114964.5	142292.1	11427.66	130864.5	138613.6	3.1652	0
5.6593	2.2959	2.4998	11079.54	5273.827	1352.333	1975.062	3212.575	863.7488	8719.135	537.1511	0.7637	120133.9	145290.2	9256.286	136033.9	142310.6	2.4869	0
4.9563	2.321	2.7299	12380.08	5426.13	1367.46	1833.161	4424.148	927.1832	12166.41	282.5044	1	116835.5	145184.4	12448.82	132735.5	141177.1	2.6948	0
5.1687	2.8352	3.4882	12139.99	5380.118	1362.89	1589.929	4497.037	908.0191	12366.85	284.1448	1	112693.7	141244.7	12651	128593.7	137172.3	3.4297	0
7.4187	2.8353	3.4883	11392.26	4892.622	1314.47	1669.493	4280.677	833	11742.71	284.2299	0.9353	113101.1	141028	12026.94	129001.1	137156.6	3.4326	0
6.5636	2.5592	3.081	11514.51	5077.889	1332.872	2173.707	3695.044	833	10069.59	283.5284	0.8224	116358.9	142612	10353.12	132258.9	139279.4	3.0431	0
7.0891	2.7439	3.3534	10867.58	4964.022	1321.562	1672.958	3674.04	833	10081.31	284.1482	0.9409	114903.4	141168.9	10365.46	138003.4	137832.2	3.3086	0
7.1643	2.8086	3.4491	12072.21	4947.726	1319.943	1955.345	4614.195	833	12686.79	284.0161	0.9919	112690.8	141561.6	12970.81	128590.8	137386.3	3.3904	0
6.5568	2.5589	3.0368	10653.23	5079.349	1333.017	1514.279	3491.589	833	9519.869	341.276	0.83	116906.6	142667.7	9861.145	132806.6	139493.3	3.0038	0
5.4704	3.0141	3.7521	12053.54	5314.744	1356.397	1720.45	4379.161	880.7909	12042.69	284.7704	1	111511	139738.5	12327.46	127411	135770.3	3.687	0
5.4352	2.548	3.0646	12445.37	5322.375	1357.155	2260.231	4219.638	883.9693	11604.01	283.3077	1	115434.9	143222.2	11887.31	1			

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

7.5812	2.9858	3.7102	11456.41	4857.409	1310.973	2017.122	4035.911	833	11098.76	284.8146	1	112346.6	139630.1	11383.57	128246.6	135965.8	3.6511	0
4.1688	3.0009	3.7326	12661.71	5596.758	1384.407	2280.981	3999.312	998.2497	10998.11	284.8794	1	112293.4	139476.4	11282.99	128193.4	135844.4	3.6734	0
4.7321	2.0348	2.1172	11405.71	5474.721	1372.286	2035.369	3173.915	947.4211	8599.731	533.0989	0.7409	122259.8	147292.6	9132.83	138159.8	144352.8	2.1121	0
5.9357	3.1704	3.9824	11768.31	5213.923	1346.383	1828.454	4138.753	838.7991	11381.57	285.3808	1	110722.1	138289.1	11666.95	126622.1	134533.5	3.9139	0
6.6331	2.9472	3.3584	11514.25	5062.821	1331.375	1822.768	4062.281	833	11171.27	284.0169	1	114162.6	141517.9	11455.29	130062.6	137830.5	3.3089	0
7.8298	2.7274	3.624	11164.01	4803.551	1305.623	1990.785	3829.049	833	10466.39	284.7111	0.8703	113214.8	139865.9	10751.1	129114.8	136405.1	3.5705	0
5.7659	2.7268	3.3283	12165.84	5250.718	1350.037	1844.411	4464.545	854.1238	12277.5	283.8061	1	113596.7	142058	12561.31	129496.7	138014.6	3.2752	0
7.5418	2.8423	3.4985	10484.39	4865.94	1311.82	1205.175	3866.454	833	10559.95	284.4139	0.8568	113819.5	140563.9	10844.36	129719.5	137073.1	3.4479	0
7.2343	2.9406	3.6437	11487.31	4932.567	1318.438	1493.771	4507.53	833	12395.71	284.4814	1	111853.8	140433.9	12680.19	127753.8	136352.2	3.5802	0
6.6336	2.6135	3.1564	11473.32	5062.716	1331.365	2310.571	3533.668	833	9695.771	289.9221	0.9401	116198.6	142084.3	9985.693	132098.6	138869.9	3.1182	0
5.3529	2.2383	2.6078	11672.93	5340.197	1358.925	1880.214	3800.197	891.3922	10410.53	282.4145	0.909	118648.6	145241.6	10692.94	134548.6	141799.5	2.5806	0
7.6951	2.8777	3.5468	10946.79	4832.723	1308.521	2012.495	3558.054	833	9699.922	289.6811	0.8281	114120.3	140009.9	9989.603	130020.3	136794.2	3.4991	0
6.834	2.6412	3.2019	11254.35	5019.289	1327.051	2071.536	3601.473	833	9831.446	283.8339	0.849	115872.7	141888	10115.28	131772.7	138631.9	3.1619	0
6.2042	2.4986	2.9917	11959.93	5155.75	1340.605	2380.75	3847.83	833	10565.81	283.2669	0.9567	116506.1	143255.2	10849.08	132406.1	139762.8	2.9544	0
6.1319	3.0473	3.8009	11756.49	5171.421	1342.162	1993.232	4014.671	833	11040.35	285.0266	1	111903.9	139129.3	11325.37	127803.9	135483.7	3.7396	0
6.5089	2.5752	3.0939	11339.07	5089.728	1334.047	2155.4	3524.893	833	9668.716	297.7944	0.9338	116542	142408.5	9966.51	132442	139200.3	3.0576	0
6.2307	2.9359	3.6365	11954.53	5150.008	1340.035	2421.593	3807.894	833	10471.71	284.7386	1	113144.9	139801.4	10756.45	129044.9	136338.9	3.5826	0
7.727	3.0532	3.8097	11470.91	4825.821	1307.835	1716.258	4385.994	833	12061.48	284.8946	1	111194.4	139440.8	12346.38	127094.4	135466.5	3.7427	0
5.1636	2.6806	3.2602	12166.81	5381.213	1362.999	1925.883	4186.238	908.4752	11512.16	283.7539	1	114459.2	142155.1	11795.91	130359.2	138358	3.2121	0
5.6337	2.913	3.6027	12285.69	5279.364	1352.883	2583.41	3801.977	866.055	10455.44	284.6643	1	113334.9	139975	10740.11	129234.9	136517.7	3.5498	0
7.203	2.7633	3.382	11661.19	4939.341	1319.111	2125.194	4042.545	833	11077.66	284.0825	0.9094	114100.8	141359.5	11358.74	130000.8	137703.2	3.3323	0
5.3906	2.2341	2.4749	11457.34	5332.044	1358.115	2158.19	3318.993	887.9964	9056.628	449.6991	0.8426	120115.2	145521.5	9506.327	136015.2	142461.4	2.4592	0
5.2039	2.1827	2.5258	11993.4	5372.483	1362.132	2073.277	3878.672	904.8392	10587.45	282.2111	0.8479	118967	145736.7	10869.66	134867	142237.7	2.5002	0
5.0195	2.5267	3.0332	12146.19	5412.439	1366.1	2020.236	4023.932	921.4807	11065.82	283.3016	1	115956	143205.1	11349.12	131856	139551.8	2.9931	0
5.1973	2.9802	3.7021	12391.93	5373.924	1362.275	1777.933	4570.359	905.4393	12568.49	284.5844	1	111432.8	140185.8	12853.07	127332.8	136048.4	3.6359	0
6.377	2.5046	2.7645	10973.14	5118.31	1336.886	2131.368	3151.579	833	8582.087	594.8303	0.8111	118765.1	143842	9176.917	134665.1	140887.9	2.7479	0
6.993	2.6982	3.2861	11171	4984.851	1323.631	1594.254	4033.262	833	11039.3	283.8721	0.8931	114632.2	141855.3	11233.17	130532.2	138210.4	3.2392	0
6.8776	2.6659	3.2383	11028.22	5009.858	1326.115	1713.615	3743.632	833	10247.06	283.8649	0.894	115405.9	141836.9	10530.92	131305.9	138447	3.1958	0
5.3668	2.7141	3.3094	11900.01	5337.195	1358.627	2245.498	3666.554	890.1415	10083.02	284.0476	1	115136	141403.1	10367.07	131036	138065.9	3.2657	0
6.7318	2.6178	3.1134	10912.42	5041.449	1329.252	1839.171	3467.546	833	9478.105	354.9163	0.87	116514.8	142247.8	9833.022	132414.8	139082.6	3.0792	0
5.824	2.9811	3.7034	12255.57	5238.124	1348.787	2095.138	4322.647	848.8786	11887.29	284.6855	1	111869.5	139941.5	12171.97	127769.5	136023.3	3.6405	0
6.022	3.1217	3.9105	10733.53	5195.231	1344.526	1936.909	3561.868	833	9795.141	285.4622	1	112130.4	138111	10080.6	128030.4	134866	3.8529	0
7.0898	2.854	3.5159	11582.14	4963.887	1321.549	2025.772	4035.933	833	11098.82	284.3793	1	113375.5	140658.7	11383.2	129275.5	136994.5	3.4623	0
7.4892	2.9204	3.6138	11640.4	4877.33	1312.951	2169.163	4045.957	833	11125.93	284.5948	0.9975	112839.3	140149.8	11410.52	128739.3	136476.8	3.5573	0
5.6415	2.3384	2.7555	11833.05	5277.672	1352.715	1819.983	4113.28	865.3505	11301.48	282.6537	0.9591	117273.2	144757.3	11584.14	133173.2	141028.4	2.7221	0
4.8646	3.0975	3.8751	12139.81	5445.997	1369.433	1528.069	4458.854	935.4576	12261.85	285.0084	1	110719.1	139166	12546.86	126619.1	135127.1	3.805	0
5.4538	3.26	4.1147	12014.94	5318.345	1356.754	1627.55	4428.002	882.2905	12177.01	285.5481	1	109509.3	137871.9	12462.56	125409.3	133860.2	4.0375	0
6.1886	2.4547	2.9269	11139.19	5163.474	1341.372	1752.181	3647.158	833	9957.913	283.1897	0.8518	117251.7	143392.8	10241.1	133151.7	140096.2	2.8932	0
6.6865	2.6583	3.2273	12006.42	5051.264	1330.227	2408.928	3981.004	833	10943.29	283.7522	0.9844	115007.3	142134.4	11227.04	130907.3	138520.4	3.1823	0
6.0685	2.4467	2.9153	11901.41	5185.165	1343.527	1894.265	4243.453	833	11635.01	282.9725	0.9257	116205.5	144023.5	11917.98	132105.5	140187.1	2.8765	0
6.5252	2.5384	2.9415	11624.65	5086.2	1333.697	2575.746	3394.012	833	9216.532	427.009	0.7712	117541.7	143085.2	9643.541	133441.7	139980.9	2.9143	0
5.8631	2.3963	2.8408	12116.04	5229.671	1347.947	2615.656	3675.408	845.3581	10087.87	282.9784	0.9468	117624.1	143894.9	10370.85	133524.1	140556.5	2.8087	0
5.8783	2.5865	3.1213	12212.4	5226.368	1347.619	2368.849	4023.577	843.9825	11064.84	283.4993	1	115489.2	142737.6	11348.34	131389.2	139084.6	3.0788	0
6.0473	3.1183	3.9056	11699.39	5189.751	1343.982	1996.72	3933.935	833	11018.32	285.2953	1	111493.3	138496.9	11103.62	127393.3	134922.7	3.8425	0
5.2704	2.7659	3.3859	11901.73	5358.074	1360.7	1757.17	4124.946	898.838	11343.61	284.0557	1	113904.1	141431.7	11627.67	129804.1	137688.8	3.3349	0
4.5321	2.9112	3.6002	12599.84	5323.049	1357.222	2264.858	4368.458	884.25	2013.26	284.4399	1	112332.5	140530.2	12297.7	128232.5	136571.6	3.5399	0
6.7423	2.5772	2.3348	11054.69	5039.165	1329.025	2588.101	2863.397	833	7696.356	1303.644	0.6403	122542.1	147442.1	9000	138442.1	143058.8	2.3496	1
5.5836	2.9665	3.6671	12320.35	5290.21	1353.96	2282.299	4121.311	870.5725	11333.61	284.6846	1	112421.6	139939.9	11618.29	128321.6	136200	3.6081	0
5.3568	3.1527	3.942	11675.55	5339.363	1358.842	2171.239	3513.067	891.0446	9660.937	304.3129	1	112033.9	137899.2	9965.25	127933.9	134691.4	3.8849	0
6.0426	2.4015	2.7752	11541.23	5190.777	1344.084	2318.703	3452.663	833	9366.131	379.6108	0.757	118368.3	144014	9745.742	134268.3	140876.9	2.7499	0
6.1387	3.927	5.0984	11881.96	5169.954	1342.016	2037.742	4097.249	833	11267.43	287.8915	1	104900.2	132355.5	11555.33	120800.2	128635.9	4.9961	0
6.4037	2.7344	3.3397	12046.82	5112.535	1336.313	1853.662	4509.308	833	12400.6	283.8149	1	113456.3	142040.7	12684.42	129356.3	137957.6	3.2856	0
6.1371	2.5252	3.031	12029.83	5170.291	1342.049	1934.981	4347.51	833	11955.28	283.1915	0.998	115381.3	143519.8	12238.47	131281.3	139580.3	2.9879	0
7.8528	3.3386	4.2306	10931.19	4798.561	1305.128	1416.562	4175.938	833	11483.83	285.9173	1	109344	137013.8	11769.75	125244	133		

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

5.7978	2.3514	2.7745	11817.49	5243.818	1349.352	2235.944	3735.123	851.2503	10200.87	282.8152	0.8562	117901.4	144285.1	10483.68	133801.4	140910.4	2.7438	0
4.8865	3.1331	3.9274	12286.68	5441.265	1368.963	2070.278	4070.683	933.4868	11194.39	285.2868	1	111134.3	138514	11479.68	127034.3	134818.7	3.8616	0
5.8018	3.1168	3.9034	12013.11	5242.951	1349.266	2033.974	4134.03	850.8889	11368.58	285.2065	1	111148.5	138702.3	11653.79	127048.5	134951	3.8373	0
6.4319	2.6563	3.2243	11705.16	6106.428	1335.706	1997.518	4030.507	833	11083.9	283.7278	1	114930.8	142198.4	11367.62	130830.8	138539.2	3.1789	0
5.498	2.6873	3.27	12431.69	5308.762	1355.803	2246.896	4239.927	878.2991	11659.8	283.7568	1	114310.5	142154	11943.56	130210.5	138309.4	3.2211	0
5.6869	2.4092	2.86	12026.4	5267.843	1351.738	1924.475	4219.085	861.2565	11602.47	282.8533	0.9998	116520.2	144305.5	11885.32	132420.2	140479.6	2.8228	0
6.7719	2.6428	3.2044	11243.02	5032.759	1328.389	1504.669	4142.2	833	11350.83	283.6497	0.9146	114861.1	142395.6	11634.48	130761.1	138650.5	3.1585	0
6.3642	2.5031	2.9602	11055.9	5121.092	1337.163	1860.989	3501.655	833	9542.107	283.6928	0.8217	117306.2	143082	9875.8	133206.2	139903	2.9286	0
4.7325	2.7544	3.3689	12072.01	5474.63	1372.277	1904.424	3971.294	947.3836	10921.06	284.0734	1	114270.7	141375.9	11205.13	130170.7	137768.9	3.3202	0
8.1044	3.0339	3.7812	11228.46	4744.046	1299.713	1719.705	4229.999	833	11606.99	284.8989	0.9412	111640	139431.9	11891.89	127540	135603.9	3.7175	0
5.831	2.3531	2.658	11672.96	5236.612	1348.636	2487.125	3350.334	848.249	9127.787	440.082	0.8184	119099.9	144567.8	9567.869	134999.9	141487.9	2.6378	0
3.555	3.5563	4.5514	12703.05	5729.747	1397.616	2456.442	3663.608	1053.64	10074.92	286.8812	1	108550	134811.8	10361.81	124450	131476.3	4.4749	0
7.9691	3.0614	3.8218	11391.9	4773.364	1302.625	1954.175	4126.739	833	11348.07	285.0276	0.9975	111593.7	139126.8	11633.1	127493.7	135382.1	3.7582	0
4.669	2.2939	2.6897	11514.54	5488.374	1373.642	1741.854	3555.558	953.1076	9777.787	282.6665	1	118633.4	144593.9	10060.45	134533.4	141355.4	2.6621	0
6.6825	2.6293	3.1844	11827.95	5052.116	1330.312	2032.267	4178.25	833	11466.53	283.5909	0.9441	114890.6	142540.7	11750.12	130790.6	138758.3	3.1387	0
6.2245	2.4741	2.9555	11415.75	5151.349	1340.168	1941.558	3747.68	833	10242.12	283.2224	0.8673	116911.9	143337.3	10525.35	132811.9	139949.1	2.9202	0
4.6265	2.3763	2.8115	12723.23	5497.596	1374.558	2307.302	4184.823	956.9486	11508.26	282.7559	1	116839.6	144530.6	11791.02	132739.6	140735.1	2.776	0
8.257	3.0602	3.7388	10642.1	4710.979	1296.429	1968.036	3431.655	833	9398.612	392.2693	0.9045	113209.4	138900.3	9790.881	129109.4	135748.6	3.6909	0
5.7398	2.8765	3.5491	12490.76	5256.377	1350.6	2459.356	4165.948	856.481	11456.36	284.4041	1	112966.5	140607.2	11740.76	128866.5	136827.9	3.4929	0
7.4981	2.839	3.4937	11226.24	4875.417	1312.761	1928.702	3874.362	833	10600.57	284.3976	0.8868	113818.4	140603.4	10884.97	129718.4	137099.5	3.4431	0
7.2647	2.8494	3.5091	11588.93	4925.981	1317.784	1812.421	4297.742	833	11818	284.2658	0.9963	112941.6	140943.8	12102.27	128841.6	137048.1	3.4525	0
7.3248	2.7617	3.1325	10958.71	4912.967	1316.491	2317.209	3177.049	833	8629.005	610.379	0.7738	116758.2	141897.5	9239.384	132658.2	138923.4	3.1084	0
5.9098	2.3871	2.8273	11707.92	5219.545	1346.941	2092.286	3806.008	841.1405	10406.08	282.9126	0.8746	117485.2	144074.2	10689	133385.2	140633.4	2.7946	0
7.0238	2.8123	3.4544	12215.82	4978.184	1322.969	2433.018	4246.648	833	11678.28	284.1635	0.9999	113322.4	141184.9	11962.44	129222.4	137334.2	3.4	0
4.8255	2.1647	2.4992	12274.8	5454.473	1370.275	2251.398	3857.665	938.9878	10608.58	282.149	1	119094.2	145884.9	10890.73	134994.2	142379.2	2.4743	0
6.8005	2.6355	3.1934	10838.48	5026.562	1327.774	1576.989	3672.153	833	10033.52	283.7894	0.8637	115784.6	142001.9	10317.31	131684.6	138680.8	3.1529	0
5.4943	2.9046	3.5905	12209.84	5309.568	1355.883	2053.758	4209.996	878.6351	11577.49	284.4795	1	112668.1	140430	11861.97	128568.1	136611.7	3.5326	0
4.706	2.9466	3.6525	12277.25	5480.367	1372.847	1914.804	4157.459	949.7729	11433.02	284.6378	1	112434.3	140051.9	11717.65	128334.3	136280	3.5934	0
4.5511	3.1036	3.8841	12290.83	5513.918	1376.179	1641.634	4393.351	963.7468	12081.72	285.0555	1	110788.3	139055.1	12366.77	126888.3	135074.2	3.8147	0
6.8611	2.9247	3.6201	11562.4	5013.435	1326.47	2079.809	3907.688	833	10746.15	284.6627	1	113053.1	139984	11030.81	128953.1	136433.1	3.5653	0
5.6018	2.7719	3.3948	12433.8	5286.273	1353.569	1981.512	4541.51	868.9328	12489.15	283.924	1	113106.7	141779.8	12773.08	129006.7	137668.1	3.3387	0
6.7992	2.9414	3.6448	11690.17	5026.829	1327.8	1964.684	4135.854	833	11373.6	284.6291	1	112513.8	140072	11658.23	128413.8	136319.2	3.5862	0
8.1527	3.0501	3.8051	10873.36	4733.581	1298.674	1692.672	3913.435	833	10740.52	285.0804	0.9455	112076.5	139002.1	11025.6	127976.5	135453	3.7452	0
6.1282	3.0174	3.7569	12332.5	5172.218	1342.241	2070.887	4512.156	833	12408.43	284.7276	1	111247.6	139840.7	12693.16	127147.6	135754.8	3.6898	0
7.084	2.7243	3.3245	11469.8	4965.134	1321.672	2112.078	3835.912	833	10499.7	284.0281	0.8941	114782.5	141466.3	10783.72	130682.5	137995	3.2787	0
3.2918	2.9278	3.6246	12026.55	5786.782	1403.281	1698.091	3659.002	1077.395	10062.25	284.7693	1	113475.2	139722.3	10347.02	129375.2	136391.6	3.573	0
5.513	3.4984	4.4661	12321.94	5305.522	1355.481	2613.628	3768.36	876.901	10363.01	286.6365	1	108817.6	135367.3	10649.65	124717.6	131939.1	4.39	0
7.582	2.9049	3.591	11623.93	4857.226	1310.955	2068.646	4152.099	833	11408.55	284.5043	0.9721	112775.6	140368.7	11693.05	128675.6	136604.7	3.5339	0
5.3235	3.0443	3.7986	12442.57	5346.576	1359.558	1933.091	4507.295	894.0488	12395.07	284.8164	1	111046.8	139626.7	12679.88	126946.8	135545.1	3.7283	0
6.643	3.3461	4.2418	12287.64	5060.681	1331.162	2276.128	4384.672	833	12057.85	285.8471	1	108915.8	137159.5	12343.7	124815.8	133186.1	4.1612	0
6.6516	2.6172	3.1666	11639.69	5058.823	1330.978	1787.403	4227.483	833	11597.64	283.5351	0.9368	114898.7	142679.8	11881.17	130798.7	138855.3	3.1209	0
6.2733	2.8082	3.4484	12087.06	5140.793	1339.119	2039.98	4332.17	833	11913.47	284.1185	1	113200.6	141298.2	12197.59	129100.6	137371.8	3.3931	0
6.9012	2.7255	3.3265	12196.26	5004.73	1325.605	2394.988	4235.934	833	11645.46	283.8839	0.9881	114021.1	141850.4	11929.34	129921.1	138010.3	3.2759	0
6.2988	2.4697	2.901	11145.73	5135.256	1338.569	1932.433	3504.469	833	9493.602	364.6776	0.7385	117642.4	143382.7	9840.28	133542.4	140215.1	2.8714	0
5.4744	2.5096	3.008	11919.47	5313.881	1356.311	1708.833	4258.018	880.4314	11709.55	283.1697	1	115664.9	143557.6	11992.72	131564.9	139697.1	2.9664	0
4.3926	2.2058	2.5599	12377.95	5548.275	1379.592	2208.121	3861.909	978.0564	10620.25	282.2849	1	118764	145566.5	10902.54	134664	142057	2.5334	0
6.9357	2.6562	3.1966	10714.54	4997.261	1324.863	1627.474	3529.944	833	9597.369	320.0279	0.7884	116023.7	141841.1	9917.397	131923.7	138648.7	3.1588	0
5.5765	2.7465	3.3573	12120.66	5291.76	1354.114	2081.258	4120.314	871.218	11330.86	283.9936	1	114063.9	141578.8	11614.86	129963.9	137839.9	3.3072	0
7.6583	2.9204	3.6137	11467.97	4840.696	1309.313	2196.693	3886.269	833	10674.63	284.6583	0.9639	113133.7	139993	10959.29	129033.7	136465.2	3.5595	0
8.1491	3.5202	4.4985	10854.68	4734.363	1298.752	1212.913	4373.65	833	12027.54	286.418	1	107581.1	135795	12313.96	123481.1	131831.2	4.4098	0
6.6343	2.6227	3.1746	11403.87	5062.563	1331.349	1919.399	3855.562	833	10587.65	283.6779	0.958	115520.4	142291.7	10871.33	131420.4	138792.2	3.1325	0
5.5677	3.0418	3.7928	11776.35	5293.664	1354.303	1842.48	4011.893	872.0111	11032.71	285.0095	1	111951.8	139169.6	11317.72	127851.8	135526.4	3.7317	0
4.6246	2.021	2.2873	12352.18	5498.003	1374.599	2375.691	3744.767	957.1181	10226.05	281.7039	0.8544	120476.9	146884.7	10507.75	136376.9	143502.2	2.2682	0
8.6714	3.1189	3.6178	10594.11	4621.187	1287.511	2277.698	3172.716	833	8564.386	666.3799	0.6926	114167.8	139298.6	9230.766	13			

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

5.2861	3.1319	3.9257	12510.86	5354.678	1360.363	2196.854	4299.541	897.4234	11823.74	285.1866	1	110735.7	138744.6	12108.93	126635.7	134846.7	3.8564	0
5.0005	2.3609	2.7887	12974.41	5416.566	1366.51	2884.892	3981.247	923.1996	10948.43	282.7661	1	117331.1	144462.3	11231.2	133231.1	140846.9	2.7554	0
6.5947	2.8277	3.4771	11890.74	5071.144	1332.202	2099.216	4153.182	833	11421.25	284.2486	1	113370.4	140975.9	11705.5	129270.4	137207.9	3.4232	0
4.679	2.0628	2.349	12072.68	5486.221	1373.428	1802.509	4056.307	952.2112	11139.99	281.7608	0.9603	119538	146859.7	11421.75	135438	143183.1	2.3268	0
6.269	2.5137	3.014	11950.03	5141.714	1339.211	2235.309	3998.793	833	10976.96	283.2691	0.9498	116116.3	143276.6	11260.23	132016.3	139651.9	2.9747	0
7.7531	2.9457	3.6512	11199.48	4820.16	1307.273	1540.333	4296.717	833	11800.71	284.5825	0.9613	112201.7	140187	12085.3	128101.7	136296.8	3.5904	0
6.2584	2.4844	2.9708	12011.25	5144.007	1339.439	2453.122	3839.686	833	10495.56	283.2277	0.8704	116663.6	143342.4	10778.78	132563.6	139872.7	2.9342	0
6.2538	3.1032	3.8834	11659.93	5145	1339.537	1857.011	4083.38	833	11221.35	285.1831	1	111344.5	138759	11514.48	127244.5	135052.5	3.8187	0
7.2972	2.8687	3.5376	11608.19	4918.936	1317.084	1977.275	4159.897	833	11439.44	284.381	0.9983	113038.1	140662	11723.82	128938.1	136888.1	3.4819	0
6.0536	2.4213	2.8199	11161.89	5188.382	1343.846	1934.733	3459.927	833	9443.686	359.1828	0.8467	118096.2	143799	9802.869	133996.2	140643.5	2.7928	0
4.935	2.5919	3.1293	11789.43	5430.744	1367.918	1859.256	3800.411	929.1047	10451.13	283.592	1	115851.1	142485.8	10734.72	131751.1	139030.3	3.0888	0
4.7418	3.1232	3.9129	11861.96	5472.619	1372.077	1616.815	4051.902	946.5459	11142.74	285.2621	1	111244.8	138572.8	11428	127144.8	134894.1	3.8477	0
6.5564	2.5512	3.0692	11901.99	5079.452	1333.027	2582.599	3671.912	833	9986.836	283.5115	0.7934	116475.7	142646.1	10270.35	132375.7	139340.1	3.0319	0
4.6126	2.9741	3.6929	12044.44	5500.613	1374.858	1697.272	4111.488	958.2052	11306.6	284.7461	1	112302.5	139793.8	11591.34	128202.5	136062.5	3.6333	0
6.6085	2.5996	3.1407	11513.33	5068.151	1331.904	2170.794	3707.841	833	10164.39	283.6529	0.9237	115979.2	142327.2	10448.05	131879.2	138964	3.1009	0
7.1306	2.9879	3.7134	11015.19	4955.047	1320.671	1131.635	4372.842	833	12025.32	284.6876	1	111726.8	139936.8	12310	127626.8	135974.2	3.6495	0
6.7652	2.6613	3.2317	11076.88	5034.212	1328.533	1694.586	3784.553	833	10393.53	283.8313	0.96	115345.1	141922.5	10677.36	131245.1	138485.5	3.1887	0
6.0679	2.4428	2.9094	12264.07	5185.289	1343.539	2710.536	3789.707	833	10384.77	283.1012	0.9144	117063	143630.8	10667.87	132963	140196.9	2.8747	0
4.8291	3.3327	4.2218	12340.9	5453.693	1370.198	2307.767	3868.581	938.6629	10638.6	286.0369	1	109934.5	136759.1	10924.64	125834.5	133242.4	4.1508	0
6.873	3.0352	3.7831	11435.62	5010.84	1326.212	1534.252	4329.313	833	11905.61	284.8591	1	111436	139526.5	12190.47	127336	135602.4	3.7178	0
4.0876	3.0774	3.8453	12752.62	5614.36	1386.156	2330.129	4014.39	1005.581	11039.57	285.1263	1	111669.4	138894.1	11324.7	127569.4	135248.7	3.7827	0
6.0107	2.4629	2.9391	11621.18	5197.692	1344.771	1580.743	4262.971	833	11718.55	283.0158	0.9848	116024.2	143925.8	12001.57	131924.2	140062.5	2.8994	0
4.2068	2.8825	3.5579	12235.4	5588.524	1383.589	1809.549	4056.917	994.8203	11156.52	284.4655	1	113115.2	140456.2	11440.99	129015.2	136773.4	3.5029	0
5.0469	2.4354	2.8987	11834.47	5233.182	1348.296	1590.786	4413.387	846.8201	12136.15	282.879	0.9968	115962.3	144281.3	12419.03	131862.3	140283.6	2.8588	0
4.8797	2.9492	3.6562	12513.06	5442.741	1369.11	2484.507	3880.6	934.1014	10671.65	284.7547	1	112910.2	139766.6	10956.41	128810.2	136239.7	3.6008	0
6.3761	2.5381	3.0499	11622.64	5118.511	1336.906	2065.11	3867.109	833	10608.32	283.3934	0.9355	116169	142960.7	10891.71	132069	139454.7	3.0109	0
5.9418	2.466	2.9436	12034.48	5212.62	1346.253	2119.723	4115.629	838.2561	11317.53	283.0718	0.9975	116265.1	143765.7	11600.61	132165.1	140031.4	2.9051	0
7.3668	2.8131	3.4555	10808.62	4903.86	1315.587	1326.154	4028.015	833	11040.11	284.2519	0.9182	113734	140958.2	11324.27	129634	137313	3.4039	0
6.1562	2.6569	3.2252	12153.42	5166.154	1341.638	2239.44	4171.183	833	11470.77	283.6811	1	114672	142326.5	11754.45	130572	138542.7	3.1782	0
7.4396	3.2583	4.1121	11481.56	4888.076	1314.019	1667.897	4376.567	833	12035.56	285.5651	1	109614.2	137835.3	12321.13	125514.2	133869.1	4.0358	0
5.7655	3.2938	4.1644	11880.8	5250.819	1350.048	2170.375	3853.395	854.1662	10596.84	285.9139	1	110265.7	137048.5	10882.75	126165.7	133545.3	4.0952	0
4.2942	2.6701	3.2446	12365.45	5569.591	1381.709	2076.988	3948.231	986.9345	10857.64	283.802	1	114971.6	142013	11141.44	130871.6	138426.6	3.1996	0
4.6757	2.5671	3.0927	12171.83	5486.926	1373.498	2193.349	3763.548	952.5045	10349.76	283.5214	1	116111.8	142645.1	10633.28	132011.8	139222.2	3.0536	0
6.8098	3.0399	3.79	11859.79	5024.541	1327.573	2105.913	4166.765	833	11458.61	284.9403	1	111690.1	139333.6	11743.55	127590.1	135553.4	3.7268	0
5.4179	2.598	3.1385	12569.35	5326.124	1357.527	1918.914	4679.258	885.5306	12867.96	283.3172	1	114211.6	143262.9	13151.28	130111.6	139029.5	3.0889	0
6.9096	2.7102	3.3038	11765.94	5002.91	1325.425	1922.978	4279.629	833	11758.38	283.8192	0.9708	114066.8	142009	12042.2	129966.8	138132.6	3.2535	0
5.9776	3.0505	3.8056	11741.15	5204.852	1345.482	1998.521	3955.271	835.0206	10877	285.0614	1	111985.1	139047.2	11162.06	127885.1	135454.1	3.745	0
6.0691	2.6408	3.2015	11565.54	5185.032	1343.513	1718.468	4083.528	833	11229.71	283.6584	1	114956	142369.3	11513.37	130856	138663.2	3.1561	0
5.8448	2.9146	3.6051	11523.32	5233.62	1348.339	1872.545	3819.818	847.0027	10504.5	284.6628	1	113290.1	139979.3	10789.16	129190.1	136506.3	3.5519	0
6.5183	2.6445	3.207	12184.07	5087.694	1333.845	1739.628	4787.908	833	13166.59	283.4286	0.999	113653.7	143003.7	13450.02	129553.7	138674.2	3.1541	0
6.4925	2.9801	3.7018	11292.99	5093.291	1334.401	1363.66	4266.633	833	11733.25	284.7044	1	111977.8	139895.7	12017.95	127877.8	136027.2	3.6398	0
6.7091	2.6382	3.1975	11412.95	5046.357	1329.74	1928.855	3873.002	833	10630.18	283.7243	0.9468	115371	142184.9	10913.91	131271	138671.8	3.1546	0
7.2996	2.807	3.4465	10655.27	4918.415	1317.032	1216.72	3968.107	833	10891.22	284.2517	0.9468	113879	140954.5	11175.47	129779	137357.1	3.3958	0
7.7805	2.9952	3.7243	11708.3	4814.235	1306.685	1762.097	4590.279	833	12621.95	284.6251	0.9947	111280.9	140087.5	12906.57	127180.9	135932.9	3.6571	0
6.9692	2.663	3.1125	10807.41	4990.015	1324.144	1879.217	3379.031	833	9179.05	444.3539	0.776	116641.1	142164.5	9623.404	132541.1	139066.7	3.0821	0
7.5866	2.8426	3.3996	12025.3	4856.232	1310.856	1386.632	3416.577	833	9302.514	415.6598	0.8093	115056	140674.2	9718.174	130956	137545.9	3.3611	0
3.8759	2.6963	3.2832	12309.58	5660.231	1390.712	1924.587	3907.369	1024.686	10745.27	283.9031	1	114840.8	141769.9	11029.17	130740.8	138219.6	3.2375	0
5.7149	3.1305	3.9235	11952.25	5261.763	1351.135	2313.786	3764.844	858.7244	10353.32	285.4066	1	111699.8	138238.6	10638.73	127599.8	134814	3.8624	0
5.9859	3.4539	4.4005	12069.92	5203.061	1345.304	2140.129	4145.153	834.275	11399.17	286.31	1	108500.5	136086	11685.48	124400.5	132324.4	4.3193	0
5.2121	2.7167	3.3133	12181.62	5370.714	1361.956	2374.276	3768.572	904.1026	10363.57	284.0204	1	114931.1	141478.7	10647.6	130831.1	138051.2	3.2684	0
5.2079	2.844	3.5011	12463.91	5371.615	1362.045	2421.095	4002.679	904.4778	11007.37	284.3587	1	113513.6	140705.4	11291.73	129413.6	137070.6	3.4484	0
4.5977	2.6634	3.2347	11905.43	5503.392	1375.134	1920.051	3745.492	959.3628	10300.11	283.85	1	115390.3	141874.3	10583.96	131290.3	138467.3	3.1921	0
5.9136	2.8846	3.561	11945.57	5218.717	1346.859	1981.836	4155.359	840.7958	11427.24	284.4349	1	112922.1	140533.8	11711.67	128822.1	136763.8	3.5047	0
3.4925	2.8055	3.4443	13054.01	5743.282	1398.96	2452.602	3997.89	1059.277	10994.2	284.2328	1	113823.5	141002	11278.43	129723.5	137371.4	3.3932	0

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

4.1235	2.8566	3.5196	12603.17	5606.568	1385.382	2282.29	3924.597	1002.336	10792.64	284.4297	1	113555.6	140532.7	11077.07	129455.6	136967	3.4674	0
5.3752	2.6	3.1412	12285.64	5335.363	1358.445	2267.612	4032.843	889.3788	11090.33	283.5408	1	115367	142640.8	11373.87	131267	138979.6	3.0981	0
6.7694	3.1036	3.8841	12025.09	5033.291	1328.442	1776.383	4651.972	833	12792.93	284.9477	1	110327.3	139305.1	13077.88	126227.3	135095.4	3.8108	0
5.9839	2.8545	3.5165	11339.58	5203.493	1345.347	1763.538	3790.747	834.4548	10424.56	284.4731	1	113812.7	140421.7	10709.03	129712.7	136974.4	3.466	0
5.9231	2.9999	3.7311	12281.9	5216.662	1346.655	2194.119	4282.529	839.9398	11777.96	284.7629	1	111794.6	139756.3	12061.72	127694.6	135873.6	3.668	0
7.0192	2.7158	3.3121	11116.46	4979.182	1323.068	1707.48	3871.735	833	10613.89	283.9852	0.9222	114773.7	141571.6	10897.87	130673.7	138063.6	3.2662	0
5.8061	2.8051	3.4437	11936.72	5242.018	1349.173	1965.415	4127.618	850.5005	11350.95	284.1837	1	113593.2	141128.4	11635.13	129493.2	137383	3.391	0
6.9585	2.7073	3.2995	11677.57	4992.315	1324.372	2076.509	4049.373	833	11111.99	283.8928	0.9424	114513.5	141809.4	11395.88	130413.5	138141	3.2519	0
6.6049	2.7674	3.3884	12110.6	5068.947	1331.983	1849.278	4625.391	833	12718.33	283.8793	1	112989.9	141893.6	13003.71	128889.9	137707.8	3.3315	0
7.19	2.7658	3.3857	10831.66	4942.158	1319.39	1700.454	3634.657	833	9965.711	284.2372	0.9256	114807.3	140957.2	10249.95	130707.3	137657.8	3.3406	0
5.571	2.7316	3.3355	11736.07	5292.959	1354.233	1413.644	4401.512	871.7176	12104.16	283.8443	1	113672.5	141960.5	12388	129572.5	137972.8	3.2828	0
7.8889	3.0883	3.8614	11974.88	4790.741	1304.351	2644.92	3999.87	833	10994.64	285.1685	1	111609.8	138794.6	11284.81	127509.8	135162	3.7986	0
6.022	2.6223	3.1741	11710.99	5195.223	1344.526	2223.204	3713.034	833	10210.85	283.7234	1	115770.8	142165.3	10494.57	131670.8	138787.1	3.1334	0
6.6669	2.6119	3.1588	11382.54	5055.511	1330.649	1757.351	4004.033	833	10970.45	283.959	0.9116	115352.7	142506.7	11254.04	131252.7	138884	3.1156	0
5.5059	2.7988	3.4344	11947.06	5307.062	1355.634	1857.062	4147.708	877.5913	11406.2	284.1556	1	113606.2	141196.6	11690.35	129506.2	137433.5	3.3818	0
7.2443	2.7669	3.3875	11131.2	4930.395	1318.222	1549.112	4098.47	833	11219.26	284.0765	0.8856	113981.3	141378.3	11497.04	129881.3	137677.4	3.337	0
6.6525	2.9941	3.7225	11714.06	5058.62	1330.958	1796.298	4293.181	833	11806.25	284.7397	1	111820.8	139811.8	12090.99	127720.8	135919.7	3.6596	0
7.1873	2.738	3.3447	11441.3	4942.759	1319.45	2252.4	3691.692	833	10071.59	284.1297	0.8394	114955.7	141211.4	10355.72	130855.7	137877.9	3.3002	0
4.4014	2.6466	3.21	12277.73	5329.698	1357.882	2100.11	4201.018	887.0193	11552.8	283.637	1	114698.6	142435	11836.44	130598.6	138624.9	3.1632	0
8.4205	3.1716	3.9843	11636.74	4675.558	1292.911	2175.696	4257.577	833	11705.78	285.3347	0.9905	110502.2	138393.3	11991.12	126402.2	134533.4	3.9139	0
5.1164	2.1742	2.5132	12078.47	5391.456	1364.016	2237.28	3770.974	912.7145	10336.49	282.2072	0.92	119201	145719.7	10618.7	135101	142301.5	2.4885	0
7.3844	3.1066	3.8885	11769.85	4900.055	1315.209	1870.267	4449.322	833	12235.64	285.0419	1	110665.1	139085.7	12520.68	126565.1	135055.3	3.8182	0
6.6553	2.5707	2.9932	11041.16	5058.019	1330.898	2008.753	3408.49	833	9241.161	421.7188	0.7494	117254.4	142817.3	9662.88	133154.4	139706.8	2.9646	0
6.5771	3.1608	3.9685	12229.34	5074.957	1332.58	1866.192	4720.611	833	12981.68	285.1021	1	109760	138926.8	13266.78	125660	134656.2	3.8914	0
5.9955	2.6244	3.1772	11951.99	5200.966	1345.096	2251.03	3919.493	833.4022	10778.61	283.66	1	115381.3	142343.6	11062.27	131281.3	138782.7	3.1342	0
8.6181	3.2097	4.0405	10735.28	4632.734	1288.657	1493.66	4085.227	833	11227.25	285.5345	0.9779	110514.8	137927.6	11512.78	126414.8	134221.6	3.9711	0
7.945	2.9223	3.4845	10466.28	4778.591	1303.144	1756.453	3393.091	833	9175.672	459.0209	0.7154	114650.9	140185.6	9634.693	130550.9	137084.2	3.4459	0
5.9198	2.7123	3.3069	12297.26	5217.376	1346.726	2266.532	4224.384	840.2371	11617.06	283.8442	1	114143.3	141944.2	11900.9	130043.3	138113.3	3.257	0
4.391	3.062	3.8227	12606.46	5548.61	1379.625	1909.968	4388.064	978.1959	12067.18	284.9224	1	111122	139374.1	12352.1	127022	135398	3.7553	0
5.0588	2.9023	3.5872	12342.89	5403.927	1365.255	2109.044	4144.731	917.9354	11398.01	284.4972	1	112802.8	140385.3	11682.51	128702.8	136624.7	3.5302	0
5.7921	2.4778	2.9611	11949.79	5245.046	1349.474	1849.848	4251.663	851.7616	11692.07	283.0676	1	115925.2	143800.4	11975.14	131825.2	139945.6	2.9208	0
7.1327	3.0931	3.8687	11815.39	4954.587	1320.625	1688.981	4616.197	833	12694.55	284.9291	1	110472.2	139351.7	12979.48	126372.2	135173.6	3.7965	0
7.4295	3.4124	4.3393	11881.67	4879.434	1313.16	2464.397	3989.673	833	10971.6	286.2458	1	109098.7	136256.5	11257.85	124998.7	132632.6	4.2627	0
5.0629	2.3514	2.7747	12012.53	5285.182	1353.461	1930.833	4172.577	868.4782	11471.84	282.6781	0.9898	117058.5	144713	11754.52	132958.5	140929.2	2.7403	0
5.0625	2.7819	3.4095	12247.85	5403.134	1365.176	1998.997	4160.934	917.6052	11442.57	284.0953	1	113714.2	141340.9	11726.67	129614.2	137566	3.3575	0
6.8486	2.635	3.0751	11009.26	5016.142	1326.739	2054.079	3377.304	833	9192.087	439.0672	0.8037	116836.2	142367.4	9631.155	132736.2	139267.1	3.0453	0
7.4371	2.787	3.1476	10431.5	4888.62	1314.073	1844.417	3149.39	833	8535.173	639.7887	0.7439	116715.3	141790.3	9174.961	132615.3	138836.9	3.1243	0
6.583	2.9554	3.6655	11621.74	5073.683	1332.454	1805.905	4174.696	833	11480.42	284.6599	1	112334.8	139999.8	11765.08	128234.8	136212.7	3.6058	0
5.6552	2.8214	3.4678	11811.62	5274.703	1352.42	1931.035	3987.35	864.114	10965.21	284.2897	1	113717.6	140867.1	11249.5	129617.6	137245.9	3.4162	0
6.5995	2.5905	3.1272	11606.86	5070.106	1332.099	1938.089	4031.565	833	11041.72	283.5154	0.9046	115473.2	142698.5	11325.24	131373.2	139052.8	3.0846	0
7.0434	2.6907	3.1155	10599.54	4973.927	1322.546	1758.318	3309.754	833	9011.874	494.5051	0.8096	116693.3	142099.7	9506.379	132593.3	139039.6	3.0871	0
6.5238	2.7577	3.3738	11512.31	5086.519	1333.729	1853.674	4003.392	833	111009.33	284.0727	1	114187	141380.4	11293.4	130087	137745.1	3.3246	0
6.9942	2.686	3.268	10895.92	4984.586	1323.604	1662.002	3690.723	833	10074.58	283.9543	0.8482	115361.5	141620	10358.54	131261.5	138285.6	3.2254	0
7.1955	2.8601	3.5249	10763.9	4940.968	1319.272	1111.659	4157.003	833	11431.75	284.3537	0.9999	113110.6	140726.7	11716.1	129010.6	136955.3	3.4695	0
4.6404	2.7996	3.4357	12274.67	5494.586	1374.259	1943.323	4104.806	955.6952	11288.22	284.1742	1	113676.6	141149	11572.39	129576.6	137423.9	3.3835	0
5.6956	2.3201	2.6241	11011.85	5265.953	1351.551	1761.828	3370.051	860.4695	9196.644	420.3277	0.8437	119251.5	144768.5	9616.972	135151.5	141672.8	2.6039	0
5.7739	2.5251	3.0309	12420.7	5248.994	1349.866	1901.398	4665.034	853.4061	12828.84	283.0881	1	114805.8	143817.7	13111.93	130705.8	139597	2.9848	0
6.9904	2.7165	3.3131	11555.98	4985.423	1323.688	1921.811	4090.062	833	11223.8	283.9089	0.9427	114368	141775.8	11507.7	130268	138071.4	3.2647	0
7.3957	2.8904	3.5696	10896.16	4897.593	1314.964	1447.52	4001.084	833	11002.41	284.513	0.9969	113154.1	140341	11286.92	129054.1	136707.7	3.5149	0
7.189	2.7391	3.3464	11471.49	4942.377	1319.412	2173.571	3801.127	833	10371.79	284.0944	0.8419	114750.1	141306	10655.89	130650.1	137875.9	3.3006	0
7.7277	2.8723	3.4772	10456.97	4825.671	1307.82	1608.115	3480.365	833	9447.411	371.0306	0.7659	114586.1	140304.5	9818.441	130486.1	137144	3.4349	0
5.7656	2.718	3.3153	12549.52	5250.795	1350.045	2299.361	4393.166	854.156	12081.21	283.8028	1	113794.4	142059.4	12365.01	129694.4	138079.1	3.2633	0
7.4818	2.8115	3.3838	11247.12	4878.942	1313.112	2355.85	3464.214	833	9427.103	375.7323	0.8013	115092.1	140795	9802.836	130992.1	137639.4	3.344	0
7.1519	2.7728	3.396	11640.86	4950.413	1320.21	2070.742	4064.497	833	11162.66	284.1023	0.9607	113968.8	141315.6	11446.77	129868.8	137630.9	3.3456	0
7																		

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

6.0159	2.464	2.9408	12173.51	5196.561	1344.658	2228.371	4168.916	833	11459.88	283.0492	0.9845	116186.1	143829	11742.93	132086.1	140049	2.9019	0
6.7032	2.932	3.631	11851.6	5047.65	1329.868	1682.081	4556.997	833	12531.75	284.4344	1	111831.9	140548.1	12816.18	127731.9	136422.6	3.5673	0
5.5306	3.0049	3.7384	12133.55	5301.705	1355.102	2005.453	4193.93	875.3601	11533.31	284.8145	1	111914.5	139632.6	11818.12	127814.5	135828.3	3.6763	0
6.9425	2.7003	3.2893	11154.53	4995.787	1324.717	1533.902	4065.121	833	11152.44	283.8646	0.9372	114541.5	141877.8	11436.3	130441.5	138196.4	3.2418	0
5.1902	2.4599	2.9345	11902.77	5375.448	1362.426	1993.448	3863.373	906.0739	10624.28	283.1309	1	116771.1	143578.5	10907.41	132671.1	140067.4	2.8985	0
6.2278	2.4905	2.9798	11753	5150.652	1340.099	2084.589	3942.66	833	10807.85	283.2118	0.9213	116409.7	143400.7	11091.06	132309.7	139830.5	2.9419	0
6.3347	2.4921	2.6219	10907.17	5127.491	1337.798	2179.72	3027.158	833	8241.379	758.6211	0.8078	119835.7	144735.7	9000	135735.7	141618.6	2.6138	1
4.3924	2.5793	3.1106	12445.46	5548.309	1379.595	2344.693	3792.791	978.0708	10430.13	283.5523	1	115963.7	142577.5	10713.73	131863.7	139128.7	3.0707	0
6.0291	2.6502	3.2153	11791.83	5193.686	1344.373	1988.71	4030.056	833	11082.66	283.7077	1	114979.5	142245.9	11366.36	130879.5	138587.1	3.1701	0
4.3922	2.591	3.128	11999.1	5548.364	1379.601	1864.665	3826.373	978.0935	10522.53	283.5804	1	115810.9	142517	10806.11	131710.9	139038.5	3.0873	0
5.5026	2.6844	3.266	12292.69	5307.778	1355.705	1638.301	4711.014	877.8894	12955.29	283.5828	1	113481.6	142620.5	13238.87	129381.6	138358.9	3.212	0
6.515	2.6196	3.1702	11558.76	5088.42	1333.918	1551.89	4349.532	833	11959.14	283.4984	0.9921	114642	142784.6	12242.64	130542	138843.7	3.123	0
6.1559	2.4839	2.9701	11989.21	5166.216	1341.644	1840.63	4405.716	833	12096.79	283.0407	0.955	115610.3	143890.1	12379.83	131510.3	139905	2.9283	0
8.1234	3.1569	3.9627	11047.15	4739.927	1299.304	1378.973	4393.949	833	12083.36	285.2284	1	110372.1	138640.7	12368.59	126272.1	134659.2	3.8908	0
7.1579	2.7565	3.372	11597.69	4949.128	1320.083	2119.495	3973.985	833	10895.8	284.0835	0.925	114271.2	141351	11179.89	130171.2	137752.2	3.3233	0
4.5281	3.1638	3.9727	12362.33	5518.908	1376.675	2103.559	3995.366	965.8252	10987.26	285.4201	1	111028.8	138201.5	11272.68	126928.8	134572.8	3.9067	0
5.5516	3.0595	3.8189	11543.33	5297.153	1354.65	1591.492	4024.567	873.4643	11067.57	285.0628	1	111791.2	139043.8	11352.63	127691.2	135389.4	3.7569	0
5.9323	2.3955	2.8397	12141.04	5214.665	1346.457	2530.542	3808.267	839.1078	10417.35	282.9395	0.8829	117411.9	144012.2	10700.28	133311.9	140567.8	2.8067	0
3.823	2.4803	2.9646	12388.98	5671.693	1391.85	1966.544	3927.429	1029.46	10800.43	283.1785	1	116494.9	143478.6	11083.61	132394.9	139910.7	2.9272	0
6.0149	2.4651	2.9423	11591.22	5196.782	1344.68	2233.611	3581.15	833	9844.59	283.2378	0.9858	117244.8	143272.7	10127.83	133144.8	140012.5	2.9085	0
4.8479	2.0841	2.3326	11800.75	5449.614	1369.792	2179.473	3462.908	936.9643	9457.391	345.0342	0.8561	120695.2	146397.6	9802.425	136595.2	143242.2	2.3159	0
7.0029	3.21	4.0409	11607.18	4982.696	1323.417	1912.057	4154.013	833	11423.54	285.5046	1	110385.7	137994.7	11709.04	126285.7	134225.6	3.9704	0
7.5736	2.9223	3.6167	11829.72	4859.06	1311.137	1911.853	4512.669	833	12406.56	284.4207	0.9889	111989.3	140580.3	12690.98	127889.3	136495.1	3.554	0
5.5199	2.8741	3.5455	11293.65	5304.03	1355.333	1514.521	3841.432	876.3287	10663.94	284.5195	1	113568	140316.5	10848.46	129468	136824.4	3.4935	0
4.387	2.7851	3.4143	12509.45	5549.479	1379.711	2026.751	4172.947	978.5579	11475.61	284.1015	1	113667.2	141326.9	11759.71	129567.2	137541.5	3.362	0
5.4608	2.2552	2.6327	12093.4	5316.819	1356.603	2475.798	3660.528	881.6552	9992.928	282.5138	0.8494	118793.8	144969.3	10275.44	134693.8	141661.6	2.6059	0
5.5943	2.7657	3.3857	12413.58	5287.898	1353.73	2006.099	4494.248	869.6094	12359.18	283.9212	1	113240	141783.2	12643.11	129140	137713.3	3.3304	0
6.6742	2.303	2.6734	11377.79	5270.6	1352.012	1969.276	3521.498	862.4047	9570.543	282.0108	0.7826	118823.8	144616.4	9892.554	134723.8	141432	2.6481	0
6.7548	2.8616	3.527	11909.18	5036.468	1328.758	2528.925	3780.032	833	10395.09	284.5009	1	113776.3	140355.9	10679.59	129676.3	136918.1	3.4763	0
5.7541	2.3236	2.639	11211.57	5253.286	1350.293	1945.863	3404.938	855.1935	9246.858	407.5853	0.7722	119149.5	144703.9	9654.444	135049.5	141596.2	2.618	0
8.8411	2.3995	2.8455	12466.98	5234.424	1348.419	2792.65	3842.148	847.3374	10554.36	282.9375	0.966	117290.2	144027.5	10837.3	133190.2	140539	2.8119	0
6.2523	2.4951	2.9865	11865.96	5145.332	1339.57	2404.9	3741.161	833	10251.67	283.2917	0.9142	116740.9	143175.8	10534.96	132640.9	139784.6	2.9504	0
8.7009	3.3122	4.1916	11646.04	4614.805	1286.877	2167.832	4341.527	833	11939.2	285.7561	0.9999	109256.8	137381.7	12224.95	125156.8	133446.5	4.1134	0
6.0274	2.9335	3.6331	11829.93	5194.074	1344.411	2136.107	3920.337	833	10780.93	284.687	1	112961.7	139927.3	11065.62	128861.7	136365.3	3.5778	0
4.7694	3.8528	3.8528	12067.64	5466.621	1371.482	1893.933	3989.561	944.0476	10971.31	285.1533	1	111674.1	138830.6	11256.46	127574.1	135207.1	3.7903	0
5.7636	3.1205	3.9089	11191.23	5251.211	1350.086	1155.286	4178.314	854.3294	11490.37	285.2003	1	111040.5	138716.1	11775.57	126940.5	134925.5	3.842	0
5.638	2.6475	3.2113	12102.59	5278.444	1352.791	2228.82	3974.861	865.6719	10930.87	283.7179	1	115100	142214.6	11214.59	131000	138604.6	3.1669	0
6.5967	3.3123	4.1918	11831.83	5070.708	1332.158	1973.632	4220.334	833	11605.92	285.811	1	109470.3	137262	11891.73	125370.3	133434.1	4.1156	0
4.7295	2.5127	3.0124	11721.53	5475.268	1372.341	1722.207	3802.068	947.6491	10455.69	283.3266	1	116468.8	143107.8	10739.01	132368.8	139650.9	2.9749	0
5.9067	2.6448	3.2074	12131.9	5220.219	1347.008	2007.586	4313.663	841.4212	11862.58	283.5925	1	114508.9	142555.1	12146.17	130408.9	138645.2	3.1594	0
6.6472	2.8283	3.4781	12229.2	5059.78	1331.073	2034.544	4568.802	833	12564.21	284.096	1	112617.7	141366.1	12848.31	128517.7	137230.2	3.4191	0
5.9062	2.8786	3.5522	12273.17	5220.317	1347.018	2368.704	4093.671	841.4621	11257.6	284.4387	1	113079.6	140521.6	11542.03	128979.6	136806.3	3.4969	0
6.2517	2.9932	3.7212	11680.57	5145.472	1339.584	1942.072	4018.44	833	11050.71	284.8463	1	112319.5	139555	11335.56	128219.5	135906.1	3.662	0
7.5341	2.8433	3.3592	10704.56	4867.621	1311.987	1950.707	3339.249	833	9126.128	470.1521	0.8677	115340.7	140837	9596.28	131240.7	137748	3.3241	0
7.0853	2.7731	3.3966	11493.7	4964.846	1321.644	1878.244	4093.965	833	11253.55	284.0915	0.9837	113906.4	141344	11537.64	129806.4	137630	3.3457	0
5.1411	3.3661	4.2712	12561.61	5386.091	1363.483	2240.236	4259.299	910.5068	11713.07	285.9694	1	108982.3	136881.3	11999.04	124882.3	133018.9	4.1918	0
8.0177	3.2471	4.0956	11196.99	4762.824	1301.578	1671.599	4225.989	833	11621.48	285.5948	1	109968.8	137775.9	11907.07	125868.8	133943	4.0223	0
6.8596	2.8326	3.4842	11619.75	5013.745	1326.501	2095.976	3948.53	833	10858.46	284.341	1	113700.3	140743.1	11142.8	129600.3	137156.3	3.4326	0
4.7872	2.5149	3.0158	12104.98	5462.783	1371.1	1948.348	3978.304	942.4489	10940.34	283.2773	1	116131.2	143254.8	11223.61	132031.2	139641.9	2.9765	0
6.1815	2.4525	2.9129	10720.78	5160.674	1341.094	1436.993	3547.017	833	9667.313	297.3044	0.8242	117506.3	143370.9	9964.618	133406.3	140163.3	2.8809	0
5.0304	3.0371	3.7859	12510.09	5410.082	1365.866	2115.379	4296.26	920.4989	11814.72	284.8787	1	111480.2	139479.8	12099.6	127380.2	135584.9	3.721	0
7.767	3.3914	4.3086	11775.86	4817.156	1306.975	1995.199	4421.531	833	12159.21	285.9773	1	108498.1	136843.3	12445.19	124398.1	132837.2	4.2252	0
6.5571	2.5629	3.0864	11263.06	5079.292	1333.011	1959.573	3656.184	833	9978.588	283.5516	0.8471	116389.2	142552.4	10263.14	132289.2	132947.8	3.0487	0
6.3411	2.8564	3.5194	11931.48	5126.087	1337.659	2254.827	3977.905	833	10939.24	284.409	1	113461.4	140585.1	11223.65	129361.4	136972.2	3.4664</	

4.6812	2.7202	3.3184	11703.77	5485.744	1373.381	1556.655	3933.974	952.0125	10818.43	283.9731	1	114605.8	141608.2	11102.4	130505.8	138034.3	3.2715	0
6.1012	2.6105	3.1569	12223.99	5178.074	1342.822	1891.099	4576.998	833	12586.75	283.3916	1	114299.9	143070	12870.14	130199.9	138927.1	3.1077	0
4.226	3.2869	4.1541	12233.46	5584.366	1383.176	2152.988	3717.844	993.0886	10224.07	285.9511	1	110560.1	136970.1	10510.02	126460.1	133587	4.0876	0
5.956	2.5275	3.0344	12226.3	5209.543	1345.948	2033.702	4398.132	836.9745	12094.86	283.1824	1	115271.5	143549.5	12378.05	131171.5	139565	2.9907	0
5.1452	2.721	3.3197	12484.99	5385.209	1363.396	2344.077	4080.17	910.1394	11220.48	283.924	1	114335.5	141739.9	11504.4	130235.5	138036.6	3.2711	0
5.6393	3.3362	4.227	11931.46	5278.142	1352.761	2109.485	3923.526	865.5463	10789.7	286.0235	1	109810.1	136785.8	11075.72	125710.1	133220.6	4.1548	0
6.5523	2.5605	2.938	10602.12	5080.344	1333.115	1637.456	3316.203	833	9049.248	474.9191	0.843	117630.6	143054.8	9524.167	133530.6	139989	2.9129	0
5.112	2.9282	3.6253	11867.4	5392.404	1364.11	1976.498	3819.257	913.1361	10505.28	284.7086	1	113184.4	139872	10787.67	129084.4	136399.5	3.5715	0
6.0009	2.8058	3.4448	11580.27	5199.811	1344.981	1701.707	4098.767	833	11271.61	284.1967	1	113639.4	141095.2	11555.81	129539.4	137375.4	3.3924	0
6.7802	2.9044	3.5903	11903.32	5030.959	1328.21	1952.031	4357.123	833	11982.09	284.4223	1	112405.5	140572.1	12266.51	128305.5	136623.5	3.5304	0
5.4536	2.5165	3.0182	12300.68	5318.386	1356.758	1998.266	4342.964	882.3076	11943.16	283.1647	1	115457	143583.4	12226.32	131357	139647.7	2.9755	0
5.987	2.4037	2.8517	11523.79	5202.824	1345.28	2064.116	3675.391	834.176	10035.25	283.0093	0.8522	117600.5	143818.7	10318.26	133500.5	140497.3	2.8196	0
7.5154	3.1207	3.9092	11499.85	4871.66	1312.388	1759.377	4321.426	833	11883.92	285.141	1	110783.8	138852.8	12169.06	126683.8	134935.6	3.8401	0
6.3037	2.4972	2.8821	10623.48	5134.209	1338.465	1544.406	3371.403	833	9215.505	425.1211	0.8704	117860.4	143401	9640.626	133760.4	140297.7	2.8562	0
4.1986	2.4189	2.8742	12347.64	5590.311	1383.767	1775.601	4200.396	995.566	11551.09	282.8907	1	116478.6	144212.6	11833.98	132378.6	140403.2	2.8368	0
6.079	2.8789	3.5526	11509.91	5182.877	1343.299	1881.191	3867.547	833	10635.76	284.5256	1	113483.5	140303.7	10920.28	129383.5	136788.5	3.5001	0
7.6178	2.8997	3.5832	10562.74	4849.487	1310.186	1195.731	3972.338	833	10940.39	284.5574	0.9499	113145.6	140234.5	11188.95	129045.6	136632.8	3.5287	0
5.5475	3.0602	3.82	12395.92	5298.047	1354.738	2467.611	3999.688	873.8367	10999.14	285.0755	1	111829.8	139014	11284.22	127729.8	135381.6	3.7583	0
5.482	2.7523	3.366	12703.36	5312.231	1356.147	2092.765	4660.469	879.7441	12816.29	283.818	1	113044.8	142044.9	13100.11	128944.8	137828	3.3094	0
4.9171	2.0992	2.4027	12040.25	5434.633	1368.304	2205.716	3698.87	930.7244	10085.83	281.9797	0.8312	119956.2	146224	10367.81	135856.2	142886.6	2.3812	0
5.8688	2.6393	3.1993	11966.1	5228.437	1347.825	1948.556	4194.441	844.8442	11534.71	283.6156	1	114769.9	142485.3	11818.33	130666.9	139681	3.1529	0
5.9206	3.6838	4.7396	12057.82	5217.194	1346.708	2129.879	4121.878	840.1615	11335.18	287.0775	1	106750.7	134272.9	11622.26	122650.7	130531.7	4.6482	0
5.5803	2.2889	2.6823	11748.16	5290.945	1354.033	2222.613	3607.695	870.8785	9848.96	282.6422	0.8498	118625.3	144656.9	10131.6	134525.3	141395.5	2.6548	0
7.5223	2.858	3.5217	10827.48	4870.172	1312.24	1493.481	3916.592	833	10735.61	284.4422	0.9199	113582	140502.1	11020.05	129482	136954.7	3.4696	0
5.9964	3.0725	3.8381	11771.77	5200.788	1345.078	1981.094	4009.486	833.3283	11026.09	285.1122	1	111716	138927.2	11311.2	127616	135286.2	3.7758	0
6.7402	2.9507	3.6585	11680.99	5039.623	1329.071	1831.815	4245.486	833	11675.09	284.6166	1	112244.9	140104.6	11959.71	128144.9	136254.8	3.5981	0
5.5407	3.0308	3.7764	11897.81	5299.52	1354.885	2326.291	3640.667	874.4501	10011.84	285.1232	1	112701.6	138898.6	10296.96	128601.6	135584	3.7212	0
6.09	2.4278	2.8639	11964.7	5180.5	1343.063	2682.043	3524.096	833	9607.89	313.8088	0.829	117792	143613.7	9921.699	133692	140419.9	2.8338	0
5.3784	2.9296	3.6273	12287.66	5334.685	1358.377	2320.416	3983.086	889.0961	10953.49	284.6496	1	112879.8	140017.9	11238.14	128779.8	136400.4	3.5713	0
6.1074	2.763	3.3817	12232.97	5176.73	1342.689	2042.564	4435.991	833	12198.98	283.9336	1	113366	141749	12482.91	129266	137730.7	3.3272	0
6.0212	3.0187	3.7589	12073.19	5195.397	1344.543	1958.466	4339.782	833	11934.4	284.8014	1	111545.3	139664.5	12219.2	127445.3	135731.1	3.6942	0
5.4168	2.2523	2.6284	11941.18	5326.361	1357.551	2007.442	3962.198	885.6295	10844.55	282.4167	0.8927	118251	145278	11126.96	134151	141696.2	2.5996	0
6.7146	3.3849	4.2989	11577.75	5045.172	1329.622	1792.24	4175.718	833	11483.23	286.0694	1	108983.5	136652.8	11769.3	124883.5	132864.3	4.2202	0
6.7056	2.6804	3.2599	11103.93	5047.114	1329.815	1339.347	4152.657	833	11418.55	283.7655	0.9945	114522.6	142124.9	11702.32	130422.6	138357.9	3.2122	0
6.7317	2.6756	3.2526	11712.44	5041.456	1329.253	2347.109	3759.626	833	10335.82	283.8861	0.9876	115271.7	141791.4	10619.71	131171.7	138372.9	3.2094	0
5.3666	2.9104	3.599	11794.85	5337.245	1358.632	1733.829	4072.982	890.1625	11200.7	284.5512	1	112868.9	140254.2	11485.25	128768.9	136557.1	3.5426	0
6.4098	2.6063	3.1506	12048.25	5111.199	1336.18	2243.37	4122.498	833	11336.55	283.5315	0.9981	115155.5	142675.6	11620.08	131055.5	138935.1	3.1063	0
4.8915	3.073	3.8388	12520.5	5440.186	1368.856	2217.699	4158.718	933.0373	11436.48	285.0524	1	111446	139067.6	11721.53	127346	135294.4	3.7743	0
7.7838	3.3697	4.2764	11069.47	4813.51	1306.613	1654.832	4059.511	833	11163.66	286.0726	1	109307.9	136657.6	11449.73	125207.9	132971.9	4.2004	0
7.3111	2.9534	3.6625	11169.82	4915.931	1316.785	1554.354	4147.744	833	11406.3	284.664	1	112398.6	139989.5	11690.96	128298.6	136226.2	3.6033	0
6.1738	2.7133	3.3083	11346.01	5162.335	1341.259	1964.162	3643.258	833	10018.96	284.0535	1	115183.7	141386.7	10303.01	131083.7	138070.2	3.2649	0
6.5464	2.6759	3.2533	11642.73	5081.624	1333.243	1704.328	4288.532	833	11793.46	283.7028	1	114311.2	142288.4	12077.17	130211.2	138400.8	3.2043	0
7.1444	2.7091	3.2077	10842.43	4952.049	1320.373	1905.036	3429.971	833	9308.04	408.5169	0.7621	116079.5	141696.1	9716.556	131979.5	138568.3	3.1735	0
8.2547	3.1864	4.0061	11481.37	4711.485	1296.479	1976.827	4261.576	833	11719.33	285.3807	1	110378.6	138283.3	12004.71	126278.6	134419	3.9349	0
7.5382	2.8614	3.5268	11421.92	4866.729	1311.899	2033.225	3975.064	833	10894.38	284.4318	0.9173	113451.4	140530.2	11178.81	129351.4	136931.8	3.4738	0
6.7173	2.5022	2.9971	11413.83	5162.876	1341.313	1759.199	3915.445	833	10760.35	283.2563	0.9771	116349.2	143292.8	11043.61	132249.2	139737.9	2.9589	0
6.2122	2.4912	2.9808	11879.14	5154.021	1340.433	2219.04	3930.641	833	10782.39	283.217	0.9351	116421.3	143386.9	11065.61	132321.3	139824.8	2.943	0
7.5435	3.1898	4.0111	10903.04	4865.577	1311.784	1631.094	3859.589	833	10613.88	285.5647	1	111066.9	137866.3	10899.44	126966.9	134357.8	3.9462	0
2.957	2.4603	2.9352	12667.53	5859.319	1410.486	2208.893	3679.223	1107.606	10117.86	283.1903	1	117102.1	143403.2	10401.06	133002.1	140055.1	2.9007	0
7.9653	3.569	4.5704	10697.72	4774.188	1302.707	1226.018	4159.803	833	11439.46	286.6813	1	107577.7	135203.8	11726.14	123477.7	131429.2	4.4835	0
5.4263	2.4954	2.987	11847.01	5324.3	1357.346	1984.135	3894.458	884.7708	10709.76	283.2395	1	116435.9	143328.9	10993	132335.9	139790.3	2.9493	0
6.9405	3.0631	3.8243	11754.62	4996.225	1324.761	1690.716	4507.923	833	12396.79	284.8769	1	110899.4	139481.1	12681.67	126799.4	135398.8	3.7551	0
5.2346	2.1911	2.5382	11833.01	5365.847	1361.473	1971.232	3830.388	902.0753	10454.98	282.2523	0.8469	118989.2	145626.4	10737.23	134889.2	142170.1	2.5126	0
5.4312	2.5524	3.0711	12523.04	5323.241	1357.241	2488.98	4067.243	884.3299	11184.92	283.3723	1	115676.7	143045	11468.3	131576.7	139353.4	3.0295	0
6.9567																		

TABLE 6

9 BG ETHANOL

\$146/barrel Mean Crude Oil

6.1203	2.9901	3.7166	11826.94	5173.936	1342.411	2065.71	4009.885	833	11027.18	284.8395	1	112358.9	139570.9	11312.02	128258.9	135929.6	3.6577	0
6.8095	2.6582	3.2271	11574	5024.605	1327.579	1839.906	4146.906	833	11371.09	283.6978	0.9271	114727.5	142282.3	11654.79	130627.5	138530.6	3.1805	0
7.414	2.8879	3.5658	10749.01	4893.637	1314.571	1176.903	4128.9	833	11353.27	284.4558	0.9946	112945	140482.7	11637.72	128845	136736.5	3.5097	0
6.3909	2.8812	3.566	11975.52	5115.306	1336.588	2307.893	3980.731	833	10947.01	284.4902	1	113262.2	140393.7	11231.5	129162.2	136778.3	3.502	0
4.8395	3.4111	4.3374	11729.24	5451.44	1369.974	1899.889	3668.214	937.7249	10087.59	286.391	1	109676.2	135950.2	10373.98	125576.2	132610.8	4.2667	0
5.8525	2.3903	2.832	12003.38	5231.96	1348.174	2202.763	3972.17	846.3113	10898.68	282.869	0.9396	117133.9	144215.5	11181.55	133033.9	140616.1	2.7978	0
7.6653	2.8403	3.2182	10753.19	4839.183	1309.163	2213.648	3156.201	833	8518.607	650.5138	0.6908	116341	141410.1	9169.12	132241	138458.6	3.1937	0
6.6166	2.5883	3.124	11825.25	5066.393	1331.73	2329.537	3862.595	833	10564.84	283.5661	0.8811	115804.3	142552.8	10848.41	131704.3	139060.6	3.0832	0
5.4128	2.2415	2.6125	12259.57	5327.224	1357.636	2460.807	3825.912	885.9886	10443.59	282.4216	0.8482	118602.1	145228.1	10726.01	134502.1	141775.4	2.5851	0
6.2795	2.5726	3.1009	12118.17	5139.432	1338.984	2138.277	4266.477	833	11732.64	283.3727	0.9989	115158	143074	12016.01	131058	139206.1	3.0565	0
5.6446	2.302	2.7017	11729.23	5277.005	1352.648	2085.717	3746.79	865.0727	10211.85	282.6483	0.8243	118281.4	144675.9	10494.5	134181.4	141297.7	2.6727	0
5.6115	2.9291	3.6267	12389.36	5284.165	1353.36	2144.951	4336.835	868.0546	11926.3	284.5106	1	112249.3	140360.1	12210.81	128149.3	136429.5	3.566	0
6.2955	2.7555	3.3706	12110.22	5135.979	1338.641	2140.134	4260.466	833	11716.28	283.9725	1	113741.1	141641.4	12000.26	129641.1	137778.5	3.3185	0
7.628	2.974	3.6929	10891.28	4847.274	1309.966	1309.433	4189.608	833	11521.32	284.7151	0.9992	112162.9	139868.9	11806.03	128062.9	136068.6	3.6322	0
8.1641	3.0413	3.7921	11234.05	4731.117	1298.429	1865.273	4104.228	833	11251.15	284.9757	0.922	111813.5	139249.6	11536.12	127713.5	135536.2	3.7299	0
7.8292	2.9699	3.6869	11992.39	4803.682	1305.637	2417.521	4230.55	833	11620.57	284.6874	0.9645	112130.3	139935.5	11905.26	128030.3	136103.2	3.6259	0
6.4743	2.8426	3.4992	12048.1	5097.227	1334.792	1798.723	4582.359	833	12601.49	284.1368	1	112482.3	141267.9	12885.63	128382.3	137120	3.4393	0
6.2916	2.7855	3.4148	10737.3	5136.816	1338.724	1265.84	3760.923	833	10342.54	284.2535	1	114406.1	140932.9	10626.8	130306.1	137512.1	3.3673	0
6.592	2.5626	2.9839	10995.23	5071.724	1332.259	1956.453	3399.796	833	9251.383	418.4283	0.8006	117300.3	142870.1	9669.811	133200.3	139757.4	2.9554	0
5.1394	2.6984	3.2863	12461.78	5386.455	1363.519	2460.858	3938.286	910.6583	10830.29	283.8993	1	114768.3	141782.5	11114.19	130668.3	138204.8	3.2402	0
6.3947	2.8901	3.569	11005.44	5114.472	1336.505	1638.762	3680.7	833	10121.93	284.6343	1	113731.3	140037.9	10406.56	129631.3	136688	3.5186	0
5.2726	2.4285	2.8882	11603.79	5357.614	1360.655	1840.065	3744.81	898.6461	10298.23	283.0629	1	117232.7	143714	10581.29	133132.7	140307.9	2.8543	0
3.4552	2.6526	3.2188	12561.92	5751.378	1399.765	2078.75	3867.376	1062.649	10635.28	283.7717	1	115254.8	142073.8	10919.06	131154.8	138559	3.1753	0
7.7015	2.9026	3.5585	10716.84	4831.333	1308.383	1837.434	3504.689	833	9598.425	322.9933	0.9041	114096.4	139917.8	9921.419	129996.4	136724.1	3.512	0
5.1921	2.7315	3.3351	11677.68	5375.044	1362.386	1687.236	3945.111	905.9057	10849.06	284.0067	1	114497.3	141530.4	11133.06	130397.3	137946.6	3.2876	0
7.6253	2.8437	3.3441	10231.55	4847.859	1310.024	1501.604	3337.058	833	9058.119	490.9358	0.7654	115448.3	140897.4	9549.055	131348.3	137823.5	3.3102	0
6.2895	2.4828	2.9683	11729.5	5137.274	1338.77	2330.532	3687.922	833	10051.44	283.2734	0.8243	116970	143204.8	10334.71	132870	139878	2.9332	0
4.9162	2.2787	2.6674	12267.52	5434.819	1368.323	2285.987	3845.587	930.802	10575.37	282.5324	1	118222.6	144980.5	10857.9	134122.6	141485.4	2.6383	0
6.2147	3.8587	4.9977	12382.2	5153.479	1340.379	2204.559	4448.783	833	12234.17	287.4782	1	104819.5	133241.1	12521.65	120719.5	129210.4	4.8907	0
5.6785	3.0397	3.7898	12335.57	5269.654	1351.918	1917.44	4532.551	862.0108	12464.52	284.7913	1	111037.5	139686.8	12749.31	126937.5	135582.8	3.7214	0
7.0766	2.8719	3.5425	12197.56	4966.744	1321.832	2092.277	4581.702	833	12599.68	284.2315	1	112255	141038.9	12883.91	128155	136891.6	3.4812	0
6.15062	2.791902	3.409018	11739.3	5167.366	1341.759	1969.876	3994.321	865.765	10963.08	304.3076	0.955126	114024.1	141191.5	11266.13	129924.1	137558	3.35894	0.008