

**Table 33. Transportation Sector Energy Use by Mode and Type
(Trillion Btu)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Energy Use by Mode													
Highway													
Light-Duty Vehicles	14951.4	15278.8	15738.7	16065.0	16397.9	16830.5	17304.4	17802.9	18324.8	18837.7	19364.2	19853.4	20321.7
Automobiles	8995.7	8953.7	8990.0	8950.8	8926.3	8957.0	9010.8	9087.0	9174.6	9261.4	9367.6	9461.7	9559.5
Light Trucks	5929.9	6299.4	6722.9	7088.6	7446.0	7847.8	8267.6	8689.8	9123.8	9549.6	9969.7	10364.6	10734.7
Motorcycles	25.8	25.7	25.8	25.7	25.6	25.7	25.9	26.1	26.4	26.6	26.9	27.2	27.5
Commercial Light Trucks 1/ Buses	634.6	603.9	596.3	613.3	631.5	645.0	663.2	685.2	707.3	730.4	755.7	779.1	801.1
Transit	247.9	257.6	258.3	259.1	260.4	262.7	265.2	267.7	270.4	273.0	275.4	277.5	279.1
Intercity	97.7	101.5	101.7	102.0	102.6	103.5	104.4	105.5	106.5	107.5	108.5	109.3	109.9
School	36.0	37.5	37.6	37.7	37.9	38.2	38.6	39.0	39.3	39.7	40.1	40.4	40.6
Freight Trucks 2/ Medium (1000-26000 pounds)	114.2	118.7	118.9	119.3	119.9	121.0	122.1	123.3	124.5	125.7	126.9	127.8	128.6
Large (> 26000 pounds)	4374.7	4322.0	4261.3	4418.6	4572.5	4679.8	4815.5	4975.2	5128.2	5301.3	5491.6	5668.1	5817.8
Medium (1000-26000 pounds)	734.4	705.0	686.6	703.3	715.1	718.8	728.3	742.8	757.7	777.2	800.7	823.7	844.9
Large (> 26000 pounds)	3640.3	3617.0	3574.7	3715.3	3857.4	3961.1	4087.2	4232.4	4370.5	4524.1	4691.0	4844.4	4972.9
Non-Highway													
Air 3/ General Aviation	3145.9	2966.8	2887.2	2837.1	2822.0	2899.3	2999.0	3091.9	3199.1	3313.2	3413.3	3517.3	3625.4
Domestic Air Carriers	190.3	181.7	177.9	175.4	174.7	178.3	183.0	187.4	192.5	197.9	202.7	207.6	212.8
International Air Carriers	1818.5	1735.4	1738.0	1683.9	1668.3	1706.1	1747.5	1791.3	1839.2	1888.8	1925.1	1964.2	2003.4
Freight Carriers	633.7	596.2	630.7	621.2	618.5	633.3	651.3	668.9	689.5	709.0	725.4	741.3	759.1
Water 4/ Freight	503.3	453.5	340.6	356.6	360.5	381.6	417.1	444.3	478.0	517.6	560.2	604.2	650.2
Domestic Shipping	1440.9	1432.1	1375.2	1408.0	1413.8	1419.3	1431.5	1440.7	1450.0	1458.7	1468.1	1477.9	1487.2
International Shipping	1124.7	1119.0	1060.8	1092.1	1096.6	1099.8	1109.1	1115.4	1121.4	1126.9	1132.6	1139.2	1145.1
Recreational Boats	283.4	344.6	338.4	342.6	346.1	348.4	356.5	361.7	366.7	371.1	375.7	381.2	386.0
Rail	841.3	774.4	722.5	749.4	750.5	751.4	752.6	753.6	754.7	755.8	756.9	758.0	759.1
Freight	316.1	313.1	314.3	316.0	317.2	319.6	322.4	325.4	328.6	331.9	335.5	338.8	342.1
Passenger	609.2	628.4	610.2	617.0	621.4	626.1	638.9	650.2	657.4	666.3	676.9	689.7	696.6
Intercity	497.1	512.8	492.3	497.2	499.5	501.9	512.2	521.1	525.8	532.1	540.1	550.4	554.7
Transit	112.0	115.6	117.9	119.8	121.9	124.3	126.7	129.1	131.7	134.2	136.8	139.3	141.9
Commuter	25.7	26.8	27.3	27.7	28.2	28.7	29.3	29.9	30.5	31.0	31.6	32.2	32.8
Lubricants	45.6	46.4	47.4	48.2	49.0	50.0	50.9	51.9	52.9	53.9	55.0	56.0	57.0
Pipeline Fuel Natural Gas	40.7	42.4	43.2	43.9	44.7	45.6	46.5	47.4	48.3	49.2	50.2	51.1	52.0
Military Use	180.0	194.0	200.0	203.3	205.2	202.4	203.7	206.2	208.3	211.5	216.0	220.4	224.5
Aviation	661.8	629.9	579.9	632.9	653.5	663.0	680.3	693.8	722.9	748.4	777.4	794.9	815.0
Residual Fuel Use	587.7	621.6	648.7	691.2	701.0	695.8	697.4	697.5	699.1	701.1	703.0	704.7	710.7
Distillate Fuel Use	476.7	501.7	518.2	552.2	560.0	555.9	557.1	557.2	558.5	560.1	561.6	562.9	567.7
Methanol	17.9	18.3	19.8	21.1	21.4	21.3	21.3	21.3	21.4	21.4	21.5	21.5	21.7
Ethanol	93.2	101.7	110.7	117.9	119.6	118.7	119.0	119.0	119.3	119.6	119.9	120.2	121.3
Total	26834.1	26935.1	27155.7	27745.7	28279.2	28924.2	29699.1	30511.3	31367.5	32241.7	33141.7	33983.1	34779.0
Energy Use by Type													
Motor Gasoline	16022.5	16198.6	16557.8	16818.9	17083.1	17447.4	17883.7	18357.7	18851.6	19339.0	19842.3	20309.9	20757.0
Distillate (diesel)	5342.0	5442.0	5412.0	5623.6	5826.6	5985.9	6185.5	6401.4	6610.0	6837.5	7082.4	7312.6	7509.2
Jet Fuel (kerosene & naphtha)	3580.0	3426.0	3363.0	3346.9	3339.6	3412.9	3513.8	3606.9	3715.4	3831.2	3932.8	4038.1	4151.0
Residual Oil	888.0	836.0	787.0	814.6	816.9	818.2	821.6	824.0	826.4	828.8	831.2	833.8	836.3
Aviation Gasoline	42.6	42.5	42.4	42.3	42.3	42.3	42.2	42.2	42.2	42.2	42.1	42.1	42.1
Liquefied Petroleum Gas	25.9	45.0	63.6	83.2	102.6	119.6	125.3	128.9	132.5	136.3	140.7	144.8	148.5
Lubricants	180.0	194.0	200.0	203.3	205.2	202.4	203.7	206.2	208.3	211.5	216.0	220.4	224.5
Petroleum Subtotal	26081.0	26184.1	26425.8	26932.9	27416.3	28028.7	28775.9	29567.3	30386.4	31226.4	32087.6	32901.6	33668.6
Methanol	0.8	0.6	0.5	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol	7.0	29.6	50.9	72.6	93.8	108.1	111.4	111.5	111.5	111.7	112.8	113.8	114.4

**Table 33. Transportation Sector Energy Use by Mode and Type
(Trillion Btu)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Electricity	72.1	74.0	76.2	78.0	79.7	81.9	83.9	86.0	88.2	90.6	93.1	95.8	98.5
Compressed Natural Gas	11.4	17.0	22.5	29.0	35.7	42.5	47.4	52.8	58.4	64.4	70.6	76.7	82.3
Liquid Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2
Pipeline Fuel Natural Gas	661.8	629.9	579.9	632.9	653.5	663.0	680.3	693.8	722.9	748.4	777.4	794.9	815.0
Total Consumption	26834.1	26935.1	27155.7	27745.7	28279.2	28924.2	29699.1	30511.3	31367.5	32241.7	33141.7	33983.1	34779.0

**Table 33. Transportation Sector Energy Use by Mode and Type
(Trillion Btu)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Energy Use by Mode														
Highway														
Light-Duty Vehicles	20782.3	21199.5	21596.0	21975.1	22342.8	22721.8	23124.7	23466.8	23796.0	24146.1	24538.5	24964.8	25362.3	2.1%
Automobiles	9663.5	9750.3	9835.4	9922.4	10007.6	10106.3	10222.6	10317.6	10440.1	10577.4	10737.1	10917.1	11088.5	0.9%
Light Trucks	11091.0	11421.2	11732.3	12024.2	12306.5	12586.5	12872.7	13119.6	13325.9	13538.4	13770.6	14016.4	14242.0	3.5%
Motorcycles	27.8	28.0	28.3	28.5	28.7	29.0	29.4	29.6	30.0	30.4	30.8	31.4	31.8	0.9%
Commercial Light Trucks 1/ Buses	820.6	839.9	855.4	868.8	883.2	898.4	915.8	930.6	944.7	961.9	979.2	999.2	1015.7	2.2%
Buses	280.4	281.1	281.4	281.4	281.3	281.2	281.3	281.3	281.5	281.8	282.6	283.7	284.7	0.4%
Transit	110.4	110.7	110.8	110.8	110.8	110.8	110.8	110.8	110.9	111.0	111.3	111.7	112.1	0.4%
Intercity	40.8	40.9	40.9	40.9	40.9	40.9	40.9	40.9	41.0	41.0	41.1	41.3	41.4	0.4%
School	129.2	129.5	129.6	129.6	129.6	129.5	129.6	129.6	129.6	129.8	130.2	130.6	131.1	0.4%
Freight Trucks 2/ Medium (1000-26000 pounds) Large (> 26000 pounds)	5943.7 864.8 5079.0	6068.9 886.8 5182.1	6165.1 906.7 5258.4	6249.8 926.7 5323.2	6348.8 949.7 5399.1	6452.9 974.4 5478.6	6572.1 1001.4 5570.7	6675.9 1025.6 5650.3	6787.7 1050.4 5737.3	6925.5 1078.4 5847.1	7066.7 1106.4 5960.2	7229.2 1137.6 6091.6	7364.7 1164.5 6200.2	2.2% 2.1% 2.3%
Non-Highway														
Air 3/ General Aviation Domestic Air Carriers International Air Carriers Freight Carriers	3737.4 218.1 2043.6 776.6 699.1	3851.1 223.5 2083.1 794.1 750.4	3962.7 228.8 2120.6 810.5 802.8	4072.1 234.0 2155.1 825.4 857.6	4183.9 239.3 2185.6 838.5 920.5	4299.0 244.8 2211.8 849.9 992.5	4411.0 250.1 2233.8 859.7 1067.4	4517.9 255.2 2250.9 868.7 1143.2	4622.8 260.2 2265.7 874.5 1222.4	4730.4 265.3 2274.7 880.4 1309.9	4839.7 270.5 2282.0 883.3 1403.8	4947.6 275.7 2284.2 886.6 1501.1	5061.1 281.1 2285.0 887.0 1608.0	2.3% 1.8% 1.2% 1.7% 5.4%
Water 4/ Freight Domestic Shipping International Shipping Recreational Boats	1495.4 1149.9 389.6 760.3 345.5	1504.8 1155.7 394.3 761.4 349.1	1513.9 1161.4 398.7 762.6 352.6	1522.2 1166.2 402.5 763.7 356.0	1531.3 1171.9 407.0 764.9 359.4	1542.1 1179.2 413.1 766.1 362.9	1554.1 1187.5 420.1 767.4 366.6	1563.5 1193.6 425.0 768.6 369.8	1572.8 1200.0 430.2 769.8 372.7	1584.1 1208.2 437.2 771.0 375.8	1593.7 1214.4 442.1 772.3 379.3	1604.5 1221.6 448.0 773.5 383.0	1614.3 1227.9 453.2 774.7 386.4	0.5% 0.4% 1.1% 0.0% 0.9%
Rail Freight Passenger Intercity Transit Commuter	702.1 557.6 144.5 33.4 58.1 53.0	707.6 560.6 147.0 34.0 59.1 53.9	713.5 563.9 149.6 34.6 60.1 54.9	721.1 568.9 152.1 35.2 61.2 55.8	727.7 572.9 154.7 35.8 62.2 56.7	733.1 575.7 157.4 36.4 63.3 57.7	740.3 580.0 160.2 37.1 64.4 58.8	745.4 582.5 162.9 37.7 65.5 59.7	749.2 583.7 165.6 38.3 66.5 60.7	755.9 587.6 168.3 38.9 67.6 61.7	762.6 591.5 171.1 39.6 68.8 62.8	769.2 595.1 174.1 40.3 70.0 63.9	776.6 599.5 177.0 41.0 71.2 64.9	0.9% 0.7% 1.8% 1.8% 1.8%
Lubricants Pipeline Fuel Natural Gas	228.7 826.2	233.6 838.6	238.1 848.1	242.5 854.0	247.0 859.3	251.0 875.7	255.0 891.0	258.2 908.1	261.2 945.1	264.8 985.5	268.3 997.3	272.7 1011.6	276.3 1021.9	1.5% 2.0%
Military Use Aviation Residual Fuel Use Distillate Fuel Use	719.3 574.6 22.0 122.7	728.1 581.6 22.2 124.2	736.9 588.6 22.5 125.7	745.8 595.7 22.8 127.2	754.7 602.9 23.1 128.8	763.8 610.1 23.3 130.3	772.9 617.4 23.6 131.9	782.1 624.7 23.9 133.4	791.3 632.1 24.2 135.0	800.7 639.6 24.5 136.6	810.1 647.1 24.8 138.2	819.6 654.7 25.0 139.8	829.2 662.4 25.3 141.5	1.2% 1.2% 1.4% 1.4%
Total	35536.2	36253.2	36911.0	37532.7	38159.9	38819.1	39518.3	40129.7	40752.1	41436.6	42138.8	42901.9	43606.8	2.0%
Energy Use by Type														
Motor Gasoline	21195.2	21590.3	21963.5	22319.4	22660.4	23018.5	23403.2	23726.1	24041.6	24381.6	24762.8	25178.6	25559.6	1.9%
Distillate (diesel)	7679.6	7848.8	7987.0	8113.1	8257.4	8403.1	8566.8	8710.3	8855.8	9030.5	9209.1	9411.2	9588.7	2.4%
Jet Fuel (kerosene & naphtha)	4270.0	4390.6	4509.2	4625.7	4744.7	4867.1	4986.3	5100.6	5212.8	5327.9	5444.7	5560.2	5681.4	2.1%
Residual Oil	838.7	841.4	844.0	846.3	848.9	852.1	855.5	858.3	861.1	864.5	867.3	870.4	873.3	0.2%
Aviation Gasoline	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	0.0%
Liquefied Petroleum Gas	151.7	155.2	158.4	161.4	164.6	167.1	169.3	170.8	171.7	172.9	174.4	175.9	178.2	5.9%
Lubricants	228.7	233.6	238.1	242.5	247.0	251.0	255.0	258.2	261.2	264.8	268.3	272.7	276.3	1.5%
Petroleum Subtotal	34406.0	35102.0	35742.3	36350.6	36965.0	37600.9	38278.2	38866.3	39446.2	40084.4	40768.8	41511.1	42199.6	2.0%
Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-20.7%
Ethanol	115.1	116.2	117.3	118.3	119.1	119.5	119.7	119.3	118.6	118.0	117.5	117.3	117.1	5.9%

**Table 33. Transportation Sector Energy Use by Mode and Type
(Trillion Btu)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001- 2025
Electricity	101.2	103.9	106.7	109.5	112.7	116.1	119.4	123.2	127.1	130.9	134.8	138.7	142.4	2.8%
Compressed Natural Gas	87.3	92.0	96.1	99.7	103.1	106.2	109.2	111.9	114.2	116.7	119.1	121.6	123.8	8.6%
Liquid Hydrogen	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.7	2.0	N/A
Pipeline Fuel Natural Gas	826.2	838.6	848.1	854.0	859.3	875.7	891.0	908.1	945.1	985.5	997.3	1011.6	1021.9	2.0%
Total Consumption	35536.2	36253.2	36911.0	37532.7	38159.9	38819.1	39518.3	40129.8	40752.1	41436.6	42138.8	42901.9	43606.8	2.0%

**Table 33. Transportation Sector Energy Use by Mode and Type
(Trillion Btu)**

1/ Commercial light trucks from 8,500 to 10,000 pounds.

2/ Does not include commercial bus and military use.

3/ Does not include military jet fuel use.

4/ Does not include military residual oil.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2001 values derived using: Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002); EIA, Fuel Oil and Kerosene Sales 2001, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/fuel_oil_and_kerosene_sales/historical/foks.html; EIA, State Energy Data Report 1999, DOE/EIA-0214(99) (Washington, DC, May 2001); Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 22 and Annual (Oak Ridge, TN, September 2002); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode
(Trillion Btu)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Light-Duty Vehicle													
Motor Gasoline	14794.47	15035.10	15416.13	15661.78	15913.59	16271.99	16695.25	17150.77	17625.86	18091.92	18569.89	19013.85	19438.40
Ethanol	6.99	29.55	50.88	72.63	93.78	108.06	111.44	111.46	111.46	111.70	112.83	113.80	114.41
Compressed Natural Gas	10.34	15.62	20.63	26.29	31.47	36.17	38.52	40.86	43.12	45.34	47.75	50.01	52.08
Liquefied Petroleum Gas	16.61	36.74	55.98	75.79	95.33	112.36	118.04	121.37	124.52	127.84	131.78	135.40	138.71
Electricity	0.70	1.32	1.90	2.48	2.98	3.58	4.09	4.63	5.27	6.10	6.96	8.06	9.16
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.07	0.11	0.16	0.24
Distillate (diesel)	121.48	159.84	192.69	225.79	260.64	298.34	336.99	373.79	414.46	454.69	494.83	532.13	568.66
Total	14951.38	15278.81	15738.68	16065.04	16397.95	16830.53	17304.36	17802.93	18324.75	18837.66	19364.16	19853.42	20321.66
Commercial Light Trucks Gasoline 1/													
	634.64	603.87	596.29	613.35	631.46	645.00	663.16	685.21	707.27	730.41	755.71	779.09	801.10
Freight Trucks 2/													
Motor Gasoline	267.43	236.82	221.34	218.04	211.03	200.96	192.93	186.25	179.69	174.56	170.89	167.71	164.86
Distillate (diesel)	4096.93	4075.63	4030.47	4190.44	4349.90	4465.33	4606.40	4769.46	4925.21	5099.24	5288.92	5464.29	5612.96
Compressed Natural Gas	1.04	1.36	1.86	2.72	4.26	6.35	8.89	11.92	15.33	19.04	22.90	26.70	30.20
Liquefied Petroleum Gas	9.31	8.24	7.64	7.42	7.28	7.20	7.30	7.57	7.96	8.44	8.94	9.40	9.76
Total	4374.71	4322.05	4261.30	4418.62	4572.48	4679.84	4815.52	4975.20	5128.19	5301.28	5491.64	5668.10	5817.78
Freight Rail 3/													
Distillate (diesel)	497.15	512.81	492.32	497.21	499.54	501.86	512.23	521.06	525.78	532.07	540.09	550.39	554.68
Total	497.15	512.81	492.32	497.21	499.54	501.86	512.23	521.06	525.78	532.07	540.09	550.39	554.68
Domestic Shipping													
Distillate (diesel)	200.09	247.90	243.71	246.75	249.27	250.90	256.79	260.53	264.11	267.26	270.58	274.51	277.98
Residual Oil	83.34	96.69	94.68	95.86	96.84	97.47	99.76	101.22	102.61	103.83	105.12	106.65	108.00
Motor Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	283.43	344.58	338.39	342.61	346.11	348.37	356.55	361.75	366.72	371.09	375.71	381.16	385.98
International Shipping													
Distillate (diesel)	54.52	53.36	49.96	51.83	51.90	51.96	52.04	52.12	52.19	52.27	52.34	52.42	52.49
Residual Oil	786.77	721.03	672.50	697.62	698.64	699.44	700.52	701.51	702.48	703.52	704.56	705.57	706.60
Total	841.30	774.39	722.46	749.45	750.54	751.40	752.57	753.62	754.67	755.78	756.90	757.99	759.10
Air Transportation													
Jet Fuel	3103.33	2924.33	2844.78	2794.74	2779.65	2857.06	2956.73	3049.68	3156.93	3271.09	3371.21	3475.15	3583.33
Aviation Gasoline	42.56	42.48	42.41	42.35	42.30	42.26	42.23	42.20	42.18	42.16	42.14	42.13	42.12
Total	3145.89	2966.80	2887.18	2837.08	2821.95	2899.32	2998.96	3091.88	3199.10	3313.25	3413.35	3517.28	3625.45
Miscellaneous Transportation													
Military Use													
Jet Fuel	476.67	501.67	518.22	552.18	559.99	555.85	557.11	557.21	558.45	560.09	561.59	562.95	567.72
Residual Fuel	17.89	18.28	19.82	21.12	21.42	21.26	21.31	21.31	21.36	21.42	21.48	21.53	21.72
Distillate	93.18	101.66	110.69	117.94	119.61	118.72	118.99	119.01	119.28	119.63	119.95	120.24	121.26
Total	587.74	621.62	648.73	691.24	701.01	695.84	697.41	697.53	699.09	701.14	703.01	704.72	710.69
Bus Transportation													
Transit Bus (motor gasoline)	4.55	4.49	4.48	4.49	4.52	4.56	4.60	4.64	4.69	4.73	4.78	4.81	4.84
Transit Bus (diesel)	93.14	96.99	97.24	97.55	98.05	98.93	99.84	100.81	101.82	102.78	103.71	104.48	105.10
Intercity Bus (diesel)	36.00	37.49	37.58	37.70	37.89	38.23	38.59	38.96	39.35	39.72	40.08	40.38	40.62
School Bus (motor gasoline)	5.32	5.25	5.24	5.25	5.28	5.33	5.38	5.43	5.48	5.54	5.59	5.63	5.66

**Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode
(Trillion Btu)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
School Bus (diesel)	108.92	113.42	113.71	114.07	114.66	115.68	116.75	117.88	119.06	120.18	121.27	122.18	122.91
Total	247.93	257.64	258.25	259.06	260.40	262.73	265.16	267.72	270.40	272.95	275.43	277.49	279.13
Rail Transportation													
Intercity Rail (electricity)	10.00	10.17	10.40	10.57	10.75	10.96	11.17	11.39	11.61	11.83	12.06	12.29	12.51
Intercity Rail (diesel)	15.70	16.60	16.88	17.15	17.44	17.79	18.13	18.48	18.85	19.21	19.58	19.94	20.31
Transit Rail (electricity)	45.58	46.36	47.40	48.16	48.98	49.95	50.92	51.90	52.92	53.94	54.98	56.01	57.04
Commuter Rail (electricity)	15.85	16.13	16.49	16.75	17.04	17.38	17.71	18.05	18.41	18.76	19.12	19.48	19.84
Commuter Rail (diesel)	24.89	26.31	26.76	27.19	27.65	28.20	28.75	29.30	29.88	30.45	31.04	31.62	32.20
Total	112.01	115.57	117.92	119.83	121.86	124.28	126.68	129.13	131.67	134.19	136.78	139.34	141.90
Recreation Boats	316.13	313.09	314.34	315.95	317.19	319.58	322.38	325.36	328.59	331.87	335.49	338.78	342.11
Lubricants	180.00	194.00	200.00	203.35	205.20	202.38	203.75	206.21	208.31	211.54	216.03	220.36	224.49
Pipeline Fuel Natural Gas	661.84	629.92	579.89	632.91	653.48	663.02	680.35	693.75	722.93	748.42	777.44	794.95	814.96
Total Miscellaneous	2105.65	2131.83	2119.13	2222.34	2259.14	2267.83	2295.73	2319.71	2360.98	2400.11	2444.18	2475.64	2513.29
Total Consumption	26834.15	26935.14	27155.74	27745.70	28279.16	28924.15	29699.06	30511.35	31367.46	32241.66	33141.73	33983.08	34779.04

**Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode
(Trillion Btu)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Light-Duty Vehicle														
Motor Gasoline	19856.21	20229.87	20585.51	20925.75	21249.19	21588.55	21951.80	22256.78	22555.02	22874.16	23233.65	23624.46	23984.47	2.0%
Ethanol	115.07	116.15	117.26	118.25	119.08	119.50	119.66	119.31	118.59	118.02	117.49	117.28	117.09	5.9%
Compressed Natural Gas	54.06	56.02	57.86	59.56	61.14	62.56	63.90	64.99	65.85	66.72	67.60	68.54	69.40	6.4%
Liquefied Petroleum Gas	141.68	145.03	148.11	151.14	154.23	156.70	158.74	160.13	160.89	161.99	163.20	164.42	166.50	6.5%
Electricity	10.13	11.30	12.49	13.63	15.25	16.91	18.47	20.62	22.80	24.88	26.94	28.98	30.86	14.0%
Liquid Hydrogen	0.34	0.42	0.49	0.56	0.62	0.69	0.79	0.88	0.99	1.16	1.37	1.65	2.03	N/A
Distillate (diesel)	604.77	640.71	674.22	706.19	743.24	776.88	811.34	844.03	871.80	899.19	928.30	959.50	991.95	7.9%
Total	20782.27	21199.51	21595.95	21975.09	22342.75	22721.80	23124.71	23466.75	23795.96	24146.13	24538.55	24964.83	25362.29	2.1%
Commercial Light Trucks Gasoline 1/														
	820.57	839.86	855.41	868.82	883.25	898.44	915.83	930.57	944.72	961.86	979.23	999.15	1015.66	2.2%
Freight Trucks 2/														
Motor Gasoline	162.39	160.88	159.42	158.30	157.96	157.98	158.37	158.33	158.49	159.16	159.95	161.37	162.34	-1.6%
Distillate (diesel)	5738.04	5861.77	5957.13	6041.05	6138.51	6240.91	6357.89	6460.04	6570.08	6705.45	6843.99	7003.23	7136.32	2.4%
Compressed Natural Gas	33.29	36.02	38.27	40.17	41.93	43.62	45.34	46.87	48.34	49.96	51.51	53.10	54.35	16.6%
Liquefied Petroleum Gas	10.02	10.20	10.28	10.31	10.36	10.43	10.54	10.64	10.76	10.96	11.20	11.48	11.70	1.5%
Total	5943.74	6068.88	6165.11	6249.83	6348.77	6452.93	6572.15	6675.88	6787.67	6925.52	7066.66	7229.17	7364.71	2.2%
Freight Rail 3/														
Distillate (diesel)	557.59	560.59	563.87	568.90	572.93	575.67	580.05	582.48	583.67	587.57	591.50	595.05	599.52	0.7%
Total	557.59	560.59	563.87	568.90	572.93	575.67	580.05	582.48	583.67	587.57	591.50	595.05	599.52	0.7%
Domestic Shipping														
Distillate (diesel)	280.61	283.95	287.18	289.87	293.10	297.49	302.56	306.09	309.84	314.87	318.40	322.68	326.37	1.2%
Residual Oil	109.02	110.32	111.57	112.61	113.87	115.58	117.54	118.92	120.38	122.33	123.70	125.36	126.80	1.1%
Motor Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	389.63	394.27	398.75	402.48	406.97	413.06	420.10	425.01	430.22	437.20	442.11	448.05	453.16	1.1%
International Shipping														
Distillate (diesel)	52.58	52.66	52.74	52.82	52.90	52.98	53.07	53.15	53.23	53.32	53.41	53.49	53.58	0.0%
Residual Oil	707.69	708.79	709.87	710.92	712.00	713.14	714.33	715.47	716.56	717.70	718.86	720.03	721.16	0.0%
Total	760.26	761.45	762.61	763.74	764.89	766.13	767.40	768.62	769.79	771.01	772.27	773.52	774.74	0.0%
Air Transportation														
Jet Fuel	3695.33	3808.99	3920.59	4029.98	4141.79	4256.95	4368.95	4475.84	4580.71	4688.29	4797.59	4905.48	5019.03	2.3%
Aviation Gasoline	42.11	42.10	42.10	42.09	42.09	42.08	42.08	42.08	42.08	42.07	42.07	42.07	42.07	0.0%
Total	3737.44	3851.09	3962.69	4072.07	4183.87	4299.03	4411.03	4517.92	4622.78	4730.37	4839.66	4947.55	5061.10	2.3%
Miscellaneous Transportation														
Military Use														
Jet Fuel	574.63	581.60	588.63	595.73	602.89	610.11	617.38	624.73	632.13	639.59	647.12	654.72	662.38	1.2%
Residual Fuel	21.98	22.25	22.52	22.79	23.06	23.34	23.62	23.90	24.18	24.46	24.75	25.04	25.34	1.4%
Distillate	122.73	124.22	125.72	127.24	128.77	130.31	131.86	133.43	135.01	136.61	138.22	139.84	141.48	1.4%
Total	719.34	728.07	736.87	745.75	754.72	763.75	772.86	782.05	791.32	800.67	810.09	819.60	829.19	1.2%
Bus Transportation														
Transit Bus (motor gasoline)	4.86	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.89	4.90	4.92	4.94	0.4%
Transit Bus (diesel)	105.58	105.85	105.95	105.94	105.91	105.89	105.92	105.94	105.98	106.13	106.41	106.81	107.21	0.4%
Intercity Bus (diesel)	40.81	40.91	40.95	40.94	40.93	40.92	40.94	40.94	40.96	41.02	41.13	41.28	41.43	0.4%
School Bus (motor gasoline)	5.69	5.70	5.71	5.71	5.71	5.70	5.71	5.71	5.71	5.72	5.73	5.75	5.77	0.4%

**Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode
(Trillion Btu)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
School Bus (diesel)	123.47	123.77	123.89	123.88	123.85	123.82	123.86	123.88	123.93	124.10	124.44	124.90	125.37	0.4%
Total	280.41	281.10	281.37	281.35	281.28	281.22	281.30	281.35	281.46	281.85	282.61	283.65	284.72	0.4%
Rail Transportation														
Intercity Rail (electricity)	12.74	12.97	13.19	13.42	13.65	13.88	14.13	14.37	14.60	14.84	15.09	15.35	15.61	1.8%
Intercity Rail (diesel)	20.68	21.05	21.41	21.78	22.15	22.53	22.93	23.32	23.70	24.09	24.50	24.92	25.34	1.8%
Transit Rail (electricity)	58.08	59.10	60.13	61.15	62.19	63.27	64.39	65.48	66.54	67.64	68.79	69.98	71.16	1.8%
Commuter Rail (electricity)	20.20	20.56	20.92	21.27	21.63	22.01	22.40	22.78	23.15	23.53	23.93	24.34	24.75	1.8%
Commuter Rail (diesel)	32.79	33.37	33.95	34.53	35.11	35.72	36.35	36.97	37.57	38.19	38.84	39.51	40.18	1.8%
Total	144.50	147.05	149.60	152.15	154.73	157.41	160.20	162.90	165.55	168.28	171.15	174.11	177.04	1.8%
Recreation Boats														
Lubricants	345.48	349.08	352.56	355.97	359.41	362.93	366.64	369.84	372.75	375.85	379.31	382.96	386.43	0.9%
Pipeline Fuel Natural Gas	228.73	233.59	238.10	242.48	246.95	250.98	255.03	258.24	261.18	264.81	268.35	272.66	276.32	1.5%
	826.18	838.65	848.12	854.03	859.33	875.75	890.99	908.14	945.07	985.49	997.34	1011.56	1021.95	2.0%
Total Miscellaneous	2544.65	2577.54	2606.63	2631.74	2656.43	2692.04	2727.02	2762.53	2817.33	2876.94	2908.84	2944.54	2975.66	1.4%
Total Consumption	35536.15	36253.19	36911.02	37532.67	38159.86	38819.11	39518.28	40129.75	40752.15	41436.61	42138.82	42901.88	43606.83	2.0%

**Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode
(Trillion Btu)**

1/ Commercial trucks from 8,500 to 10,000 pounds.

2/ Does not include military distillate. Does not include commercial buses.

3/ Does not include passenger rail.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 2000 and 2001 compressed natural gas volumes: Energy Information Administration (EIA), AEO2003 National Energy Modeling System run aeo2003.d110502c. Other 2000 and 2001 values derived using: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002); EIA, Fuel Oil and Kerosene Sales 2001, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/fuel_oil_and_kerosene_sales/historical/foks.html; EIA, State Energy Data Report 1999, DOE/EIA-0214(99) (Washington, DC, May 2001); Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 22 and Annual (Oak Ridge, TN, September 2002); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 35. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type
(Trillion Btu)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Light-Duty Consumption by Technology Type													
Conventional Vehicles 1/													
Gasoline ICE Vehicles	14651.56	14815.60	15118.45	15288.78	15458.83	15730.43	16047.75	16379.47	16710.88	17038.99	17377.51	17677.99	17968.45
TDI Diesel ICE	121.48	159.84	192.69	225.79	260.64	298.34	336.99	373.79	414.46	454.69	494.83	532.13	568.66
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.80	0.72	0.63	0.51	0.45	0.37	0.36	0.34	0.32	0.30	0.28	0.26	0.23
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	135.41	226.85	315.76	402.62	487.03	568.10	645.34	721.95	798.08	872.30	946.74	1017.51	1084.21
Ethanol ICE	0.27	0.36	0.45	0.53	0.61	0.71	0.81	0.91	1.01	1.11	1.23	1.34	1.46
Total Alcohol	136.49	227.94	316.85	403.65	488.09	569.18	646.51	723.20	799.41	873.71	948.26	1019.11	1085.90
Natural Gas Technology													
Compressed Natural Gas ICE	0.25	0.27	0.29	0.31	0.33	0.34	0.36	0.37	0.40	0.41	0.43	0.44	0.45
Compressed Natural Gas Bi-fuel	10.32	16.03	21.45	27.03	32.48	37.51	40.78	44.06	47.26	50.40	53.64	56.72	59.59
Liquefied Petroleum Gas ICE	1.25	1.35	1.47	1.56	1.63	1.72	1.81	1.91	2.03	2.16	2.31	2.46	2.64
Liquefied Petroleum Gas Bi-fuel	15.38	36.54	56.72	77.52	98.13	116.89	129.86	141.90	153.68	165.32	177.27	188.70	199.40
Total Natural Gas Technology	27.20	54.19	79.93	106.42	132.57	156.47	172.81	188.25	203.37	218.29	233.65	248.32	262.07
Electric Technology													
Electric Vehicle	0.70	1.32	1.90	2.48	2.98	3.58	4.09	4.63	5.27	6.10	6.96	8.06	9.16
Electric-Diesel Hybrid	0.18	0.35	0.56	0.82	1.18	1.56	1.99	2.85	5.06	7.26	9.69	12.58	15.36
Electric-Gasoline Hybrid	3.18	9.66	18.74	32.48	53.91	75.85	103.84	145.66	208.07	267.41	329.46	399.39	464.08
Total Electricity	4.06	11.34	21.21	35.78	58.08	81.00	109.92	153.13	218.39	280.77	346.12	420.03	488.59
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.07	0.11	0.16	0.24
Total Fuel Cell	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.07	0.11	0.16	0.24
Light-Duty Consumption by Fuel Type 1/													
Motor Gasoline	14794.47	15035.10	15416.13	15661.78	15913.59	16271.99	16695.25	17150.77	17625.86	18091.92	18569.89	19013.85	19438.40
Distillate (diesel)	121.48	159.84	192.69	225.79	260.64	298.34	336.99	373.79	414.46	454.69	494.83	532.13	568.66
Methanol	0.80	0.64	0.48	0.28	0.15	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Ethanol	6.99	29.55	50.88	72.63	93.78	108.06	111.44	111.46	111.46	111.70	112.83	113.80	114.41
Compressed Natural Gas	10.34	15.62	20.63	26.29	31.47	36.17	38.52	40.86	43.12	45.34	47.75	50.01	52.08
Liquefied Petroleum Gas	16.61	36.74	55.98	75.79	95.33	112.36	118.04	121.37	124.52	127.84	131.78	135.40	138.71
Electricity	0.70	1.32	1.90	2.48	2.98	3.58	4.09	4.63	5.27	6.10	6.96	8.06	9.16
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.07	0.11	0.16	0.24

**Table 35. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type
(Trillion Btu)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Light-Duty Consumption by Technology Type														
Conventional Vehicles 1/														
Gasoline ICE Vehicles	18255.19	18496.41	18723.34	18948.31	19153.27	19376.88	19626.05	19823.30	20019.20	20238.19	20497.40	20787.53	21056.09	1.5%
TDI Diesel ICE	604.77	640.71	674.22	706.19	743.24	776.88	811.34	844.03	871.80	899.19	928.30	959.50	991.95	7.9%
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	0.21	0.19	0.17	0.14	0.12	0.11	0.09	0.10	0.08	0.07	0.06	0.05	0.04	-10.9%
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.1%
Ethanol-Flex Fuel ICE	1148.05	1207.82	1264.28	1316.66	1365.16	1411.59	1457.16	1496.42	1531.84	1566.96	1603.17	1640.64	1674.54	8.7%
Ethanol ICE	1.58	1.72	1.85	1.99	2.14	2.30	2.47	2.64	2.81	2.99	3.19	3.39	3.59	10.0%
Total Alcohol	1149.85	1209.72	1266.30	1318.79	1367.42	1413.99	1459.72	1499.15	1534.74	1570.03	1606.41	1644.08	1678.18	8.7%
Natural Gas Technology														
Compressed Natural Gas ICE	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.46	0.46	0.46	0.46	0.47	0.47	2.3%
Compressed Natural Gas Bi-fuel	62.34	64.99	67.50	69.82	71.97	73.96	75.85	77.46	78.82	80.17	81.52	82.94	84.24	7.2%
Liquefied Petroleum Gas ICE	2.84	3.05	3.29	3.54	3.81	4.12	4.45	4.78	5.13	5.49	5.87	6.26	6.66	6.9%
Liquefied Petroleum Gas Bi-fuel	209.67	219.57	228.90	237.54	245.50	252.84	259.80	265.74	270.79	275.73	280.69	285.82	290.51	9.0%
Total Natural Gas Technology	275.29	288.07	300.13	311.36	321.73	331.36	340.55	348.44	355.20	361.85	368.55	375.48	381.87	8.5%
Electric Technology														
Electric Vehicle	10.13	11.30	12.49	13.63	15.25	16.91	18.47	20.62	22.80	24.88	26.94	28.98	30.86	14.0%
Electric-Diesel Hybrid	18.29	22.04	25.82	29.22	33.76	38.41	43.15	48.50	53.51	58.42	63.34	68.63	73.83	24.9%
Electric-Gasoline Hybrid	528.86	600.31	671.74	734.36	804.71	874.04	942.31	1010.26	1076.61	1141.73	1206.18	1270.14	1329.78	22.8%
Total Electricity	557.29	633.65	710.06	777.20	853.72	929.36	1003.92	1079.39	1152.92	1225.03	1296.46	1367.75	1434.47	22.3%
Fuel Cell Technology														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.34	0.42	0.49	0.56	0.62	0.69	0.79	0.88	0.99	1.16	1.37	1.65	2.03	N/A
Total Fuel Cell	0.34	0.42	0.49	0.56	0.62	0.69	0.79	0.88	0.99	1.16	1.37	1.66	2.03	N/A
Light-Duty Consumption by Fuel Type 1/														
Motor Gasoline	19856.21	20229.87	20585.51	20925.75	21249.19	21588.55	21951.80	22256.78	22555.02	22874.16	23233.65	23624.46	23984.47	2.0%
Distillate (diesel)	604.77	640.71	674.22	706.19	743.24	776.88	811.34	844.03	871.80	899.19	928.30	959.50	991.95	7.9%
Methanol	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.7%
Ethanol	115.07	116.15	117.26	118.25	119.08	119.50	119.66	119.31	118.59	118.02	117.49	117.28	117.09	5.9%
Compressed Natural Gas	54.06	56.02	57.86	59.56	61.14	62.56	63.90	64.99	65.85	66.72	67.60	68.54	69.40	6.4%
Liquefied Petroleum Gas	141.68	145.03	148.11	151.14	154.23	156.70	158.74	160.13	160.89	161.99	163.20	164.42	166.50	6.5%
Electricity	10.13	11.30	12.49	13.63	15.25	16.91	18.47	20.62	22.80	24.88	26.94	28.98	30.86	14.0%
Liquid Hydrogen	0.34	0.42	0.49	0.56	0.62	0.69	0.79	0.88	0.99	1.16	1.37	1.65	2.03	N/A

**Table 35. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type
(Trillion Btu)**

1/ Includes personal vehicles and fleet vehicles. Includes both cars and trucks.

Btu = British thermal unit.

ICE = Internal combustion engine.

N/A = Not applicable.

Source: Energy Information Administration, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 36. Light-Duty Vehicle Sales by Technology Type
(Thousands)
New England**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	419.5	399.2	387.3	391.4	384.4	366.9	369.7	373.7	317.4	317.5	326.2	321.9	320.2
TDI Diesel ICE	0.9	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Total Conventional	420.4	400.0	388.2	392.3	385.2	367.7	370.5	374.4	318.1	318.2	327.0	322.7	321.0
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	10.2	23.8	22.9	23.1	22.6	21.3	21.6	22.1	21.8	21.9	22.7	22.8	22.7
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.8	1.5
Electric-Diesel Hybrid	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	2.8	3.0	3.3	3.6	3.7
Electric-Gasoline Hybrid	1.8	4.0	5.5	8.2	12.6	12.4	15.3	18.2	68.3	69.5	72.0	76.2	76.1
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	2.1	2.3	2.2	2.2	2.1	2.0	2.0	2.0	1.9	1.8	1.9	1.9	1.9
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2
Total Alternatives	15.0	31.1	31.6	34.5	38.4	36.8	40.1	43.6	95.7	97.2	101.0	106.0	106.6
Percent Alternative Car Sales	3.44	7.22	7.52	8.08	9.07	9.09	9.75	10.43	23.12	23.39	23.60	24.73	24.93
Total New Car Sales	435.4	431.1	419.8	426.8	423.7	404.5	410.6	418.0	413.8	415.4	428.0	428.7	427.7
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	340.9	309.5	301.7	310.0	312.0	301.6	308.4	317.6	295.1	298.2	309.5	310.5	310.9
TDI Diesel ICE	17.9	29.0	28.5	30.5	29.2	28.4	28.1	26.0	26.4	26.2	26.9	25.8	26.4
Total Conventional	358.8	338.5	330.2	340.4	341.2	330.1	336.5	343.6	321.5	324.4	336.4	336.3	337.3
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	11.5	27.8	26.8	28.0	28.0	26.8	27.9	28.9	28.7	29.2	30.6	30.9	31.0
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electric Vehicle	0.1	0.2	0.2	0.2	0.2	0.6	0.9	1.3	1.5	2.0	1.9	2.3	1.7
Electric-Diesel Hybrid	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.8	0.8	0.9	1.0	1.1
Electric-Gasoline Hybrid	1.1	2.1	3.0	5.1	8.0	7.9	10.3	12.6	33.6	34.2	35.2	37.4	37.7
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	4.3	4.9	4.8	5.0	5.0	4.9	5.0	5.2	5.2	5.2	5.4	5.4	5.5
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Alternatives	18.5	36.6	36.5	39.9	42.9	42.0	45.8	49.8	71.5	73.1	75.8	78.9	78.8
Percent Alternative Light Truck Sales	4.91	9.75	9.95	10.50	11.17	11.28	11.99	12.67	18.20	18.39	18.39	19.00	18.94

**Table 36. Light-Duty Vehicle Sales by Technology Type
(Thousands)**

New England

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Total New Truck Sales	377.3	375.0	366.7	380.4	384.1	372.0	382.4	393.4	393.0	397.5	412.2	415.2	416.1
Percent Total Alternative Sales	4.12	8.40	8.65	9.22	10.07	10.14	10.83	11.51	20.72	20.95	21.05	21.91	21.98
EPACT Legislative Alternative Sales	10.80	12.89	12.51	12.83	12.82	12.30	12.53	12.78	12.67	12.71	13.09	13.17	13.18
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	42.68	81.24	121.88	159.48	162.67	168.71	175.65	176.77
Total Vehicles Sales	812.7	806.2	786.4	807.1	807.7	776.5	792.9	811.4	806.8	812.9	840.2	843.9	843.8

**Table 36. Light-Duty Vehicle Sales by Technology Type
(Thousands)
New England**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	321.7	323.5	327.0	327.4	314.6	309.7	310.9	296.0	289.2	289.5	288.2	290.8	288.5	-1.3%
TDI Diesel ICE	0.8	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.9	1.0	1.0	1.1	1.1	1.3%
Total Conventional	322.6	324.4	327.9	328.3	315.5	310.6	311.8	296.9	290.2	290.5	289.2	291.9	289.6	-1.3%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.9%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.5%
Ethanol-Flex Fuel ICE	22.8	23.5	23.9	23.9	23.7	23.4	23.5	23.2	22.7	22.7	22.6	22.9	22.6	-0.2%
Ethanol ICE	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	6.5%
Electric Vehicle	1.9	3.3	3.9	3.9	6.0	6.1	5.8	8.2	8.2	7.8	7.6	7.5	7.1	18.4%
Electric-Diesel Hybrid	3.9	4.7	4.9	4.9	5.9	6.0	6.1	7.3	7.0	6.9	6.8	7.3	7.4	19.6%
Electric-Gasoline Hybrid	76.3	81.2	83.2	83.0	90.0	90.1	90.3	97.7	97.8	97.9	97.1	98.2	96.6	14.2%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6%
Compressed Natural Gas Bi-fuel	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	-0.8%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-6.7%
Liquefied Petroleum Gas Bi-fuel	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	-0.9%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.2	0.2	0.1	0.2	0.1	0.2	0.3	0.2	0.3	0.4	0.4	0.6	0.7	N/A
Total Alternatives	107.8	115.4	118.6	118.6	128.3	128.3	128.5	139.2	138.5	138.3	137.0	139.1	136.9	6.4%
Percent Alternative Car Sales	25.04	26.24	26.56	26.54	28.91	29.24	29.19	31.91	32.31	32.25	32.14	32.27	32.09	6.4%
Total New Car Sales	430.3	439.7	446.5	446.9	443.9	438.9	440.4	436.1	428.7	428.7	426.2	431.0	426.5	0.0%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	314.3	319.9	325.2	326.3	320.4	317.3	318.4	310.6	305.3	305.3	303.4	305.2	300.5	-0.1%
TDI Diesel ICE	27.1	28.1	28.6	28.7	28.4	27.7	28.1	28.2	27.1	26.8	26.6	28.1	29.4	0.1%
Total Conventional	341.4	347.9	353.8	355.1	348.8	345.0	346.6	338.8	332.4	332.1	330.0	333.3	329.9	-0.1%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.7%
Ethanol-Flex Fuel ICE	31.3	32.3	33.1	33.3	33.1	32.7	32.9	32.5	31.9	32.0	31.8	32.2	31.6	0.5%
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	7.1%
Electric Vehicle	1.1	0.7	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.9%
Electric-Diesel Hybrid	1.2	1.5	1.5	1.6	2.0	2.0	2.0	2.4	2.3	2.3	2.3	2.5	2.5	17.0%
Electric-Gasoline Hybrid	38.0	41.0	42.3	42.4	46.5	46.6	46.8	50.9	50.8	51.0	50.8	51.4	50.7	14.3%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7%
Compressed Natural Gas Bi-fuel	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.5%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-4.2%
Liquefied Petroleum Gas Bi-fuel	5.5	5.7	5.8	5.8	5.8	5.7	5.7	5.7	5.6	5.6	5.5	5.6	5.6	0.5%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	N/A
Total Alternatives	79.0	83.1	85.1	85.3	89.5	89.2	89.7	93.7	92.8	93.3	92.8	94.3	93.2	4.0%
Percent Alternative Light Truck Sales	18.78	19.27	19.38	19.36	20.43	20.54	20.56	21.67	21.83	21.93	21.95	22.05	22.03	3.5%

**Table 36. Light-Duty Vehicle Sales by Technology Type
(Thousands)
New England**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001- 2025
Total New Truck Sales	420.4	431.0	438.9	440.3	438.3	434.2	436.3	432.6	425.3	425.3	422.8	427.5	423.1	0.5%
Percent Total Alternative Sales	21.95	22.79	23.00	22.98	24.70	24.91	24.90	26.81	27.09	27.11	27.07	27.18	27.08	5.0%
EPACT Legislative Alternative Sales	13.30	13.63	13.87	13.91	13.84	13.70	13.77	13.65	13.42	13.42	13.34	13.49	13.35	0.1%
ZEVP Legislative Alternative Sales	178.36	189.09	194.08	194.68	206.27	205.99	207.08	218.40	216.59	216.90	215.89	219.64	217.64	N/A
Total Vehicles Sales	850.7	870.7	885.4	887.2	882.2	873.1	876.6	868.6	854.0	854.1	849.0	858.5	849.6	0.2%

Table 36. Light-Duty Vehicle Sales by Technology Type

(Thousands)

New England

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000." (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 37. Light-Duty Vehicle Sales by Technology Type
(Thousands)
Middle Atlantic**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1225.1	1151.0	1106.2	1109.5	1083.0	1028.9	1033.0	1040.6	948.7	1022.3	1047.5	961.2	1036.5
TDI Diesel ICE	2.4	2.2	2.2	2.3	2.2	2.2	2.2	2.0	2.1	2.1	2.2	2.1	2.2
Total Conventional	1227.5	1153.2	1108.4	1111.7	1085.3	1031.1	1035.2	1042.6	950.8	1024.3	1049.7	963.3	1038.6
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	29.7	68.8	65.4	65.4	63.8	59.9	60.5	61.5	60.4	60.5	62.7	62.7	62.3
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric Vehicle	0.3	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.5	0.6	1.0	1.8
Electric-Diesel Hybrid	0.3	0.3	0.3	0.4	0.6	0.6	0.7	1.2	5.1	2.3	2.6	6.5	2.9
Electric-Gasoline Hybrid	5.2	11.3	15.4	22.9	35.3	34.5	42.4	50.3	124.2	54.6	57.9	138.6	60.3
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
Compressed Natural Gas Bi-fuel	1.7	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.4	1.4	1.4	1.4
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Liquefied Petroleum Gas Bi-fuel	6.0	6.7	6.3	6.2	6.0	5.6	5.5	5.4	5.2	5.1	5.1	5.1	5.1
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.4	0.7	0.9
Total Alternatives	43.4	89.4	89.7	97.2	107.9	102.7	111.4	120.7	197.3	124.9	131.0	216.3	134.9
Percent Alternative Car Sales	3.42	7.20	7.49	8.04	9.04	9.06	9.71	10.38	17.18	10.86	11.10	18.34	11.50
Total New Car Sales	1270.9	1242.6	1198.2	1208.9	1193.2	1133.8	1146.6	1163.4	1148.1	1149.2	1180.7	1179.6	1173.6
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1000.1	900.0	867.9	885.1	881.8	848.0	863.9	886.9	854.3	886.2	915.7	893.1	919.0
TDI Diesel ICE	47.5	75.1	74.4	79.0	79.1	77.7	76.7	70.4	71.5	71.0	72.5	69.6	71.0
Total Conventional	1047.6	975.1	942.3	964.1	960.9	925.7	940.5	957.3	925.8	957.2	988.2	962.8	990.0
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	33.7	80.7	77.2	79.8	79.1	75.4	78.1	80.7	79.9	80.8	84.5	85.2	85.1
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric Vehicle	0.4	0.5	0.4	0.5	0.5	1.3	1.8	2.6	3.0	3.8	3.6	4.3	3.5
Electric-Diesel Hybrid	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.5	1.5	0.9	1.0	1.9	1.2
Electric-Gasoline Hybrid	3.1	5.9	8.5	14.1	22.2	22.1	28.5	34.9	61.2	37.8	40.0	68.2	41.9
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	3.8	4.3	4.1	4.3	4.3	4.1	4.2	4.3	4.3	4.3	4.5	4.5	4.5
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gas Bi-fuel	12.5	14.2	13.7	14.1	14.2	13.7	14.0	14.4	14.3	14.4	14.9	15.0	15.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3
Total Alternatives	53.9	105.8	104.3	113.3	120.8	117.2	127.2	137.5	164.4	142.4	148.9	179.5	151.8
Percent Alternative Light Truck Sales	4.90	9.79	9.97	10.51	11.17	11.24	11.92	12.56	15.08	12.95	13.09	15.71	13.30

**Table 37. Light-Duty Vehicle Sales by Technology Type
(Thousands)**

Middle Atlantic

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Total New Truck Sales	1101.5	1080.9	1046.6	1077.4	1081.7	1042.9	1067.8	1094.9	1090.2	1099.6	1137.1	1142.2	1141.8
Percent Total Alternative Sales	4.10	8.40	8.65	9.20	10.05	10.10	10.77	11.44	16.16	11.88	12.08	17.05	12.38
EPACT Legislative Alternative Sales	31.53	37.16	35.72	36.35	36.11	34.48	34.99	35.57	35.14	35.17	36.10	36.22	36.17
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	77.69	147.83	221.75	290.12	295.89	306.84	319.43	321.44
Total Vehicles Sales	2372.4	2323.6	2244.8	2286.3	2274.8	2176.7	2214.3	2258.2	2238.3	2248.8	2317.8	2321.8	2315.4

**Table 37. Light-Duty Vehicle Sales by Technology Type
(Thousands)
Middle Atlantic**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	1037.7	965.3	974.3	1061.7	943.9	928.1	928.8	895.6	874.9	872.9	866.0	871.9	861.6	-1.2%
TDI Diesel ICE	2.2	2.4	2.4	2.5	2.5	2.4	2.5	2.5	2.5	2.5	2.6	2.8	3.0	1.2%
Total Conventional	1039.9	967.7	976.7	1064.1	946.4	930.5	931.3	898.1	877.4	875.4	868.6	874.7	864.7	-1.2%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.3%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.3%
Ethanol-Flex Fuel ICE	62.6	64.1	65.2	65.1	64.3	63.3	63.4	62.5	61.0	60.9	60.3	61.1	60.1	-0.6%
Ethanol ICE	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.8%
Electric Vehicle	2.4	4.8	6.5	6.9	10.7	11.1	10.6	15.0	15.1	14.4	14.2	14.0	13.4	16.4%
Electric-Diesel Hybrid	3.2	8.4	8.8	3.9	10.7	10.8	11.0	13.1	12.6	12.4	12.3	13.3	13.4	17.7%
Electric-Gasoline Hybrid	61.9	147.7	151.2	66.5	163.6	163.7	164.1	177.6	177.7	178.0	176.4	178.5	175.4	12.1%
Compressed Natural Gas ICE	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.1%
Compressed Natural Gas Bi-fuel	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	-1.2%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.5%
Liquefied Petroleum Gas Bi-fuel	5.1	5.2	5.3	5.3	5.2	5.1	5.2	5.1	5.0	5.0	4.9	5.0	4.9	-1.3%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	1.2	1.0	0.6	0.6	0.4	0.4	0.5	0.4	0.5	0.6	0.7	0.9	1.1	N/A
Total Alternatives	137.9	232.9	239.3	149.9	256.7	256.2	256.5	275.4	273.6	273.0	270.5	274.5	270.0	4.7%
Percent Alternative Car Sales	11.71	19.40	19.68	12.35	21.33	21.59	21.60	23.47	23.77	23.77	23.75	23.88	23.80	5.1%
Total New Car Sales	1177.9	1200.6	1216.0	1214.1	1203.1	1186.7	1187.8	1173.5	1151.0	1148.5	1139.1	1149.2	1134.7	-0.4%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	925.2	913.5	927.0	959.0	912.8	902.3	903.3	883.8	867.1	865.0	857.4	860.7	845.7	-0.3%
TDI Diesel ICE	72.3	74.8	76.0	76.5	75.6	73.4	74.4	74.5	71.5	70.6	70.2	74.2	77.5	0.1%
Total Conventional	997.6	988.4	1003.0	1035.4	988.4	975.7	977.7	958.3	938.6	935.6	927.6	934.9	923.3	-0.2%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.1%
Ethanol-Flex Fuel ICE	86.0	88.5	90.4	90.6	89.9	88.7	88.9	87.7	85.8	85.8	85.1	85.9	84.2	0.2%
Ethanol ICE	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	4.8%
Electric Vehicle	2.3	1.9	1.2	0.8	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5%
Electric-Diesel Hybrid	1.3	2.6	2.8	1.7	3.5	3.5	3.6	4.4	4.1	4.1	4.1	4.5	4.6	15.1%
Electric-Gasoline Hybrid	43.1	74.7	77.0	46.8	84.7	84.8	85.2	92.6	92.5	92.9	92.4	93.5	92.3	12.2%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3%
Compressed Natural Gas Bi-fuel	4.5	4.7	4.7	4.7	4.7	4.6	4.7	4.6	4.5	4.5	4.5	4.5	4.4	0.2%
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.8%
Liquefied Petroleum Gas Bi-fuel	15.1	15.4	15.7	15.7	15.6	15.4	15.3	15.0	14.9	14.8	14.8	15.0	14.8	0.2%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.4	0.4	0.3	0.3	0.2	0.2	0.4	0.3	0.4	0.5	0.6	0.9	1.1	N/A
Total Alternatives	153.0	188.4	192.3	160.9	199.6	198.2	199.1	205.8	203.2	203.7	202.4	205.1	202.4	2.7%
Percent Alternative Light Truck Sales	13.29	16.01	16.09	13.45	16.80	16.89	16.92	17.68	17.80	17.88	17.91	17.99	17.98	2.6%

**Table 37. Light-Duty Vehicle Sales by Technology Type
(Thousands)**

Middle Atlantic	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001- 2025
Total New Truck Sales	1150.5	1176.7	1195.3	1196.3	1188.0	1173.9	1176.8	1164.1	1141.8	1139.3	1130.0	1140.0	1125.6	0.2%
Percent Total Alternative Sales	12.49	17.72	17.90	12.90	19.08	19.25	19.27	20.59	20.80	20.84	20.84	20.95	20.90	3.9%
EPACT Legislative Alternative Sales	36.42	37.22	37.78	37.79	37.51	37.05	37.13	36.72	36.02	35.94	35.65	35.96	35.51	-0.2%
ZEVP Legislative Alternative Sales	324.33	343.82	352.88	353.95	375.01	374.49	376.46	397.03	393.75	394.31	392.47	399.29	395.65	N/A
Total Vehicles Sales	2328.4	2377.3	2411.4	2410.4	2391.1	2360.6	2364.7	2337.6	2292.8	2287.8	2269.1	2289.2	2260.3	-0.1%

**Table 37. Light-Duty Vehicle Sales by Technology Type
(Thousands)
Middle Atlantic**

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000." (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 38. Light-Duty Vehicle Sales by Technology Type
(Thousands)
East North Central**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1432.0	1341.2	1287.8	1291.0	1260.9	1199.3	1205.9	1216.7	1198.1	1198.4	1229.8	1228.3	1221.8
TDI Diesel ICE	3.1	3.0	2.7	2.8	2.8	2.7	2.8	2.6	2.7	2.7	2.8	2.7	2.8
Total Conventional	1435.1	1344.2	1290.5	1293.8	1263.6	1202.0	1208.7	1219.3	1200.8	1201.1	1232.6	1231.0	1224.6
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	34.7	80.1	76.1	76.1	74.3	69.8	70.6	71.8	70.7	70.9	73.6	73.6	73.2
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Electric Vehicle	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Electric-Diesel Hybrid	0.4	0.4	0.4	0.5	0.7	0.7	0.9	1.5	2.7	2.9	3.3	3.5	3.7
Electric-Gasoline Hybrid	6.1	13.4	18.0	26.6	41.1	40.2	49.6	59.0	61.8	64.1	68.0	69.7	71.0
Compressed Natural Gas ICE	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	2.0	2.2	2.0	2.0	2.0	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7
Liquefied Petroleum Gas ICE	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0
Liquefied Petroleum Gas Bi-fuel	7.1	7.8	7.3	7.2	7.0	6.5	6.4	6.4	6.1	6.0	6.0	6.0	6.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	50.8	104.4	104.5	113.1	125.6	119.5	129.8	141.0	143.6	146.1	153.2	155.1	156.1
Percent Alternative Car Sales	3.42	7.21	7.49	8.04	9.04	9.05	9.70	10.37	10.68	10.85	11.05	11.19	11.31
Total New Car Sales	1485.9	1448.6	1395.0	1406.9	1389.2	1321.5	1338.5	1360.4	1344.4	1347.2	1385.8	1386.1	1380.7
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1160.9	1033.9	1005.3	1024.6	1020.8	983.1	1000.6	1030.5	1023.6	1033.1	1068.8	1077.7	1075.9
TDI Diesel ICE	64.1	104.1	92.2	97.9	98.5	97.6	99.8	92.2	93.9	93.7	95.6	92.0	93.6
Total Conventional	1225.0	1137.9	1097.5	1122.5	1119.3	1080.6	1100.4	1122.8	1117.4	1126.9	1164.4	1169.7	1169.4
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	39.2	92.8	89.4	92.4	91.6	87.3	90.4	93.5	92.8	93.9	98.3	99.3	99.4
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
Electric Vehicle	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6
Electric-Diesel Hybrid	0.2	0.2	0.3	0.3	0.4	0.5	0.5	0.6	1.1	1.2	1.3	1.4	1.5
Electric-Gasoline Hybrid	3.6	6.9	9.8	16.4	25.8	25.7	33.2	40.7	42.7	44.3	46.8	48.0	49.2
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	4.4	5.0	4.8	5.0	5.0	4.8	4.9	5.1	5.0	5.1	5.3	5.3	5.3
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gas Bi-fuel	14.6	16.5	16.0	16.4	16.5	15.9	16.4	16.8	16.7	16.9	17.5	17.6	17.6
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	62.8	122.2	121.0	131.3	140.1	135.0	146.1	157.5	159.1	162.1	170.1	172.6	173.9
Percent Alternative Light Truck Sales	4.88	9.69	9.93	10.47	11.12	11.10	11.72	12.30	12.47	12.58	12.75	12.86	12.94

**Table 38. Light-Duty Vehicle Sales by Technology Type
(Thousands)**

East North Central

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Total New Truck Sales	1287.9	1260.1	1218.5	1253.9	1259.4	1215.6	1246.5	1280.2	1276.6	1289.0	1334.5	1342.2	1343.3
Percent Total Alternative Sales	4.10	8.37	8.63	9.19	10.03	10.03	10.67	11.30	11.55	11.69	11.88	12.01	12.11
EPACT Legislative Alternative Sales	36.86	43.32	41.59	42.31	42.05	40.19	40.85	41.60	41.15	41.23	42.37	42.57	42.56
ZEPV Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	2773.8	2708.7	2613.5	2660.8	2648.6	2537.1	2585.0	2640.6	2621.0	2636.2	2720.3	2728.3	2724.0

**Table 38. Light-Duty Vehicle Sales by Technology Type
(Thousands)
East North Central**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	1225.7	1248.4	1263.9	1263.1	1252.4	1236.9	1239.2	1225.3	1203.6	1202.1	1193.4	1204.7	1190.3	-0.5%
TDI Diesel ICE	2.9	3.0	3.1	3.2	3.3	3.3	3.4	3.4	3.4	3.4	3.6	3.7	4.0	1.2%
Total Conventional	1228.6	1251.5	1267.0	1266.3	1255.7	1240.1	1242.5	1228.8	1206.9	1205.6	1197.0	1208.4	1194.3	-0.5%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.2%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.8%
Ethanol-Flex Fuel ICE	73.7	75.6	76.9	76.9	76.1	74.9	75.2	74.2	72.5	72.4	71.8	72.8	71.6	-0.5%
Ethanol ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.9%
Electric Vehicle	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-1.2%
Electric-Diesel Hybrid	4.0	4.6	4.9	4.9	5.6	5.5	5.7	6.2	5.8	5.8	5.7	6.1	6.1	12.7%
Electric-Gasoline Hybrid	72.9	75.9	78.5	78.7	78.1	77.2	77.4	76.3	75.1	75.1	74.6	75.2	74.5	7.4%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.9%
Compressed Natural Gas Bi-fuel	1.7	1.7	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	-1.1%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.8%
Liquefied Petroleum Gas Bi-fuel	6.0	6.1	6.2	6.2	6.2	6.1	6.1	6.0	5.9	5.9	5.9	5.9	5.9	-1.2%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	158.8	164.5	168.8	169.0	168.3	166.1	166.7	165.0	161.6	161.5	160.3	162.2	160.4	1.8%
Percent Alternative Car Sales	11.45	11.62	11.76	11.78	11.82	11.81	11.83	11.84	11.81	11.81	11.81	11.84	11.84	2.1%
Total New Car Sales	1387.4	1416.0	1435.9	1435.3	1424.0	1406.2	1409.2	1393.8	1368.6	1367.0	1357.3	1370.7	1354.8	-0.3%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	1083.7	1106.6	1123.8	1124.9	1114.9	1104.3	1107.1	1095.3	1077.9	1076.6	1067.7	1077.2	1059.5	0.1%
TDI Diesel ICE	94.8	98.2	99.6	100.8	103.6	101.4	102.9	103.2	99.2	98.9	99.4	101.1	105.5	0.1%
Total Conventional	1178.5	1204.8	1223.4	1225.7	1218.5	1205.7	1210.0	1198.5	1177.1	1175.5	1167.1	1178.3	1165.0	0.1%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3%
Ethanol-Flex Fuel ICE	100.5	103.5	105.9	106.2	105.2	103.9	104.3	102.9	100.9	100.9	100.0	101.3	99.5	0.3%
Ethanol ICE	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	4.0%
Electric Vehicle	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.3%
Electric-Diesel Hybrid	1.7	2.0	2.1	2.2	2.5	2.5	2.6	2.8	2.6	2.6	2.6	2.8	2.9	11.6%
Electric-Gasoline Hybrid	50.6	52.9	55.0	55.2	55.0	54.3	54.5	53.8	52.9	53.0	52.7	53.1	52.7	8.8%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.5%
Compressed Natural Gas Bi-fuel	5.4	5.5	5.6	5.6	5.6	5.5	5.5	5.5	5.4	5.4	5.3	5.4	5.3	0.3%
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.7%
Liquefied Petroleum Gas Bi-fuel	17.8	18.2	18.5	18.6	18.4	18.3	18.3	18.1	17.8	17.8	17.7	17.8	17.6	0.3%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	176.7	183.1	188.0	188.6	187.6	185.4	186.2	184.1	180.5	180.6	179.3	181.4	179.0	1.6%
Percent Alternative Light Truck Sales	13.04	13.19	13.32	13.34	13.34	13.33	13.33	13.32	13.30	13.32	13.32	13.34	13.32	1.3%

**Table 38. Light-Duty Vehicle Sales by Technology Type
(Thousands)**

East North Central	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001- 2025
Total New Truck Sales	1355.3	1387.8	1411.5	1414.3	1406.1	1391.1	1396.2	1382.7	1357.6	1356.1	1346.4	1359.7	1344.0	0.3%
Percent Total Alternative Sales	12.23	12.40	12.53	12.55	12.58	12.57	12.58	12.57	12.55	12.56	12.56	12.59	12.58	1.7%
EPACT Legislative Alternative Sales	42.90	43.89	44.61	44.68	44.40	43.91	44.05	43.62	42.83	42.78	42.47	42.89	42.39	-0.1%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	2742.7	2803.8	2847.3	2849.6	2830.1	2797.4	2805.4	2776.4	2726.2	2723.2	2703.7	2730.4	2698.7	0.0%

**Table 38. Light-Duty Vehicle Sales by Technology Type
(Thousands)
East North Central**

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 39. Light-Duty Vehicle Sales by Technology Type
(Thousands)
West North Central**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	584.3	554.6	537.6	543.1	533.5	509.5	513.9	519.9	513.4	515.0	529.9	530.6	529.1
TDI Diesel ICE	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.2
Total Conventional	585.5	555.7	538.7	544.2	534.6	510.6	515.0	521.0	514.5	516.1	531.1	531.7	530.2
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	14.1	33.1	31.8	32.0	31.4	29.6	30.1	30.7	30.3	30.5	31.7	31.8	31.7
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric-Diesel Hybrid	0.2	0.1	0.2	0.2	0.3	0.3	0.4	0.6	1.1	1.2	1.4	1.5	1.5
Electric-Gasoline Hybrid	2.5	5.5	7.4	11.1	17.2	17.0	21.0	25.0	26.3	27.4	29.1	29.9	30.6
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gas Bi-fuel	2.9	3.2	3.1	3.0	3.0	2.8	2.7	2.7	2.6	2.6	2.6	2.6	2.6
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	20.7	43.1	43.6	47.5	53.0	50.7	55.2	60.1	61.3	62.6	65.8	66.8	67.4
Percent Alternative Car Sales	3.42	7.20	7.49	8.03	9.02	9.03	9.68	10.34	10.65	10.82	11.02	11.16	11.28
Total New Car Sales	606.3	598.9	582.3	591.7	587.7	561.3	570.2	581.1	575.8	578.7	596.9	598.5	597.6
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	475.3	430.4	420.9	432.3	434.2	419.9	428.5	442.2	440.6	445.7	462.6	467.5	467.9
TDI Diesel ICE	24.5	39.8	37.1	39.7	39.2	38.9	40.2	37.3	37.9	38.2	38.8	37.4	38.2
Total Conventional	499.8	470.2	458.0	472.0	473.3	458.8	468.7	479.5	478.5	483.9	501.4	504.9	506.1
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	16.0	38.6	37.4	39.0	38.9	37.3	38.7	40.1	39.9	40.5	42.5	43.1	43.2
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Electric-Diesel Hybrid	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.5	0.5	0.5	0.6	0.6
Electric-Gasoline Hybrid	1.5	2.8	4.1	6.9	10.9	10.8	14.1	17.3	18.2	18.9	20.1	20.7	21.2
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.8	2.1	2.0	2.1	2.1	2.0	2.1	2.2	2.2	2.2	2.3	2.3	2.3
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gas Bi-fuel	6.0	6.8	6.7	6.9	7.0	6.8	7.0	7.2	7.2	7.3	7.5	7.6	7.6
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	25.7	50.8	50.6	55.4	59.4	57.5	62.4	67.4	68.3	69.8	73.4	74.7	75.4
Percent Alternative Light Truck Sales	4.89	9.74	9.95	10.50	11.15	11.13	11.75	12.32	12.49	12.60	12.77	12.88	12.97

**Table 39. Light-Duty Vehicle Sales by Technology Type
(Thousands)**

West North Central

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Total New Truck Sales	525.5	520.9	508.6	527.4	532.8	516.3	531.0	546.9	546.8	553.7	574.8	579.6	581.5
Percent Total Alternative Sales	4.10	8.39	8.64	9.19	10.04	10.04	10.68	11.30	11.55	11.69	11.88	12.01	12.11
EPACT Legislative Alternative Sales	15.04	17.91	17.36	17.79	17.79	17.07	17.40	17.77	17.62	17.71	18.25	18.38	18.42
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	1131.7	1119.8	1090.9	1119.1	1120.4	1077.6	1101.3	1128.0	1122.6	1132.4	1171.6	1178.1	1179.1

**Table 39. Light-Duty Vehicle Sales by Technology Type
(Thousands)
West North Central**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	532.1	543.1	551.1	551.8	548.2	542.5	544.5	539.4	530.8	531.0	528.0	533.9	528.4	-0.2%
TDI Diesel ICE	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.6	1.7	1.6%
Total Conventional	533.2	544.4	552.3	553.1	549.6	543.8	545.9	540.8	532.2	532.5	529.6	535.5	530.1	-0.2%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.9%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4%
Ethanol-Flex Fuel ICE	32.0	32.9	33.5	33.6	33.3	32.9	33.0	32.6	32.0	32.0	31.8	32.3	31.8	-0.2%
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.0%
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.9%
Electric-Diesel Hybrid	1.7	1.9	2.0	2.1	2.3	2.3	2.4	2.6	2.5	2.5	2.4	2.6	2.6	13.1%
Electric-Gasoline Hybrid	31.5	32.8	34.0	34.2	34.0	33.7	33.8	33.4	33.0	33.0	32.9	33.2	32.9	7.8%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.1%
Compressed Natural Gas Bi-fuel	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.7	-0.8%
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.8%
Liquefied Petroleum Gas Bi-fuel	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.6	2.6	2.6	2.6	-0.9%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	68.7	71.3	73.4	73.6	73.4	72.6	73.0	72.4	71.0	71.1	70.7	71.7	71.0	2.1%
Percent Alternative Car Sales	11.41	11.58	11.73	11.74	11.78	11.78	11.80	11.80	11.78	11.78	11.78	11.81	11.81	2.1%
Total New Car Sales	601.9	615.7	625.7	626.7	623.0	616.5	618.9	613.2	603.2	603.6	600.2	607.2	601.1	0.0%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	472.5	483.5	492.1	493.6	490.2	486.5	488.6	484.3	477.4	477.6	474.4	479.4	472.4	0.4%
TDI Diesel ICE	38.7	40.2	40.8	41.5	42.8	41.9	42.6	42.9	41.3	41.2	41.6	42.4	44.4	0.5%
Total Conventional	511.2	523.7	533.0	535.1	533.0	528.4	531.3	527.2	518.7	518.9	516.0	521.8	516.7	0.4%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2%
Ethanol-Flex Fuel ICE	43.8	45.2	46.4	46.6	46.2	45.7	46.0	45.5	44.7	44.8	44.4	45.1	44.3	0.6%
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5.1%
Electric Vehicle	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6%
Electric-Diesel Hybrid	0.7	0.8	0.9	0.9	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.2	1.2	12.0%
Electric-Gasoline Hybrid	21.9	22.9	23.9	24.0	24.0	23.8	23.9	23.6	23.3	23.3	23.3	23.5	23.4	9.2%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.9%
Compressed Natural Gas Bi-fuel	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0.6%
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5%
Liquefied Petroleum Gas Bi-fuel	7.7	7.9	8.1	8.1	8.1	8.0	8.0	8.0	7.9	7.9	7.8	7.9	7.8	0.6%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	76.8	79.8	82.1	82.5	82.2	81.4	81.9	81.2	79.7	79.9	79.5	80.5	79.6	1.9%
Percent Alternative Light Truck Sales	13.07	13.22	13.35	13.36	13.37	13.35	13.36	13.34	13.32	13.34	13.34	13.37	13.34	1.3%

**Table 39. Light-Duty Vehicle Sales by Technology Type
(Thousands)**

West North Central	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001- 2025
Total New Truck Sales	588.0	603.5	615.1	617.6	615.2	609.8	613.2	608.3	598.4	598.7	595.5	602.3	596.3	0.6%
Percent Total Alternative Sales	12.23	12.39	12.53	12.55	12.57	12.56	12.57	12.57	12.54	12.56	12.56	12.58	12.57	1.7%
EPACT Legislative Alternative Sales	18.61	19.09	19.44	19.51	19.43	19.25	19.35	19.19	18.88	18.89	18.78	19.00	18.81	0.2%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	1189.9	1219.2	1240.8	1244.3	1238.3	1226.3	1232.1	1221.6	1201.6	1202.3	1195.7	1209.5	1197.4	0.3%

**Table 39. Light-Duty Vehicle Sales by Technology Type
(Thousands)**

West North Central

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 40. Light-Duty Vehicle Sales by Technology Type
(Thousands)
South Atlantic**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1655.1	1556.9	1501.4	1513.6	1488.2	1425.3	1443.3	1467.0	1456.2	1469.0	1520.8	1532.4	1537.9
TDI Diesel ICE	3.2	3.0	3.0	3.2	3.1	3.0	3.1	3.0	3.0	3.1	3.3	3.2	3.3
Total Conventional	1658.3	1559.9	1504.4	1516.8	1491.2	1428.3	1446.4	1469.9	1459.2	1472.1	1524.0	1535.6	1541.2
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	40.1	93.0	88.8	89.2	87.7	82.9	84.5	86.6	85.9	86.9	91.0	91.9	92.2
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
Electric Vehicle	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Electric-Diesel Hybrid	0.4	0.4	0.5	0.6	0.8	0.8	1.0	1.7	3.1	3.4	3.8	4.2	4.4
Electric-Gasoline Hybrid	6.9	15.1	20.7	30.8	47.8	47.1	58.5	70.1	74.0	77.5	83.0	85.8	88.2
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0
Compressed Natural Gas Bi-fuel	2.3	2.5	2.4	2.4	2.3	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	8.1	9.0	8.5	8.5	8.2	7.7	7.7	7.7	7.5	7.3	7.4	7.5	7.5
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	58.5	120.7	121.5	132.2	147.5	141.4	154.5	169.0	173.3	177.9	188.1	192.1	195.1
Percent Alternative Car Sales	3.41	7.18	7.48	8.01	9.00	9.01	9.65	10.31	10.62	10.78	10.99	11.12	11.24
Total New Car Sales	1716.8	1680.6	1626.0	1649.0	1638.8	1569.7	1600.9	1638.9	1632.5	1650.0	1712.1	1727.7	1736.3
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1352.6	1219.4	1175.9	1205.1	1212.9	1176.5	1205.9	1250.0	1252.0	1274.1	1329.7	1352.2	1362.0
TDI Diesel ICE	62.6	99.3	103.1	110.4	107.2	106.7	109.8	102.4	104.8	105.9	108.8	105.7	108.5
Total Conventional	1415.2	1318.7	1279.0	1315.6	1320.0	1283.2	1315.8	1352.5	1356.8	1380.0	1438.5	1457.8	1470.6
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	45.6	109.4	104.6	108.7	108.8	104.5	108.9	113.4	113.4	115.8	122.3	124.6	125.8
Ethanol ICE	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
Electric Vehicle	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7
Electric-Diesel Hybrid	0.2	0.2	0.3	0.4	0.5	0.5	0.5	0.7	1.3	1.4	1.5	1.7	1.8
Electric-Gasoline Hybrid	4.1	7.8	11.3	19.0	30.1	30.2	39.3	48.5	51.3	53.6	57.3	59.3	61.3
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	5.1	5.8	5.6	5.8	5.9	5.7	5.9	6.1	6.1	6.2	6.5	6.6	6.7
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gas Bi-fuel	16.9	19.2	18.6	19.3	19.5	18.9	19.6	20.2	20.3	20.7	21.6	21.9	22.2
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	72.8	143.2	141.3	154.1	165.6	160.7	175.0	189.9	193.4	198.7	210.3	215.2	218.7

**Table 40. Light-Duty Vehicle Sales by Technology Type
(Thousands)**

South Atlantic

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Percent Alternative Light Truck Sales	4.89	9.79	9.95	10.48	11.15	11.13	11.74	12.31	12.48	12.59	12.76	12.86	12.95
Total New Truck Sales	1488.0	1461.8	1420.3	1469.6	1485.7	1443.9	1490.8	1542.4	1550.2	1578.8	1648.8	1673.0	1689.3
Percent Total Alternative Sales	4.10	8.40	8.63	9.18	10.02	10.02	10.66	11.28	11.52	11.66	11.85	11.98	12.08
EPACT Legislative Alternative Sales	42.59	50.25	48.48	49.59	49.60	47.74	48.85	50.11	49.97	50.50	52.35	53.06	53.52
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	3204.8	3142.4	3046.3	3118.6	3124.4	3013.6	3091.7	3181.2	3182.7	3228.8	3361.0	3400.7	3425.6

**Table 40. Light-Duty Vehicle Sales by Technology Type
(Thousands)
South Atlantic**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	1556.8	1599.9	1634.3	1647.7	1648.2	1642.0	1659.4	1655.0	1639.3	1651.1	1652.7	1681.9	1675.5	0.3%
TDI Diesel ICE	3.4	3.6	3.8	3.9	4.1	4.1	4.2	4.3	4.3	4.4	4.6	4.9	5.3	2.4%
Total Conventional	1560.2	1603.5	1638.0	1651.6	1652.3	1646.1	1663.6	1659.3	1643.6	1655.5	1657.3	1686.8	1680.8	0.3%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Ethanol-Flex Fuel ICE	93.6	96.8	99.4	100.3	100.1	99.5	100.7	100.2	98.7	99.5	99.4	101.6	100.8	0.3%
Ethanol ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	3.8%
Electric Vehicle	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	-0.4%
Electric-Diesel Hybrid	4.8	5.6	6.0	6.1	7.0	7.0	7.2	7.9	7.6	7.6	7.6	8.1	8.2	13.9%
Electric-Gasoline Hybrid	91.4	96.0	100.3	101.4	101.6	101.3	102.5	101.9	101.1	102.0	102.2	103.8	103.8	8.4%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.6%
Compressed Natural Gas Bi-fuel	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	-0.2%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.5%
Liquefied Petroleum Gas Bi-fuel	7.6	7.9	8.0	8.1	8.1	8.1	8.2	8.2	8.1	8.1	8.1	8.3	8.3	-0.4%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	200.2	209.3	216.8	218.9	219.9	219.0	221.7	221.3	218.6	220.2	220.4	225.0	224.3	2.6%
Percent Alternative Car Sales	11.37	11.54	11.69	11.70	11.74	11.74	11.76	11.77	11.74	11.74	11.74	11.77	11.77	2.1%
Total New Car Sales	1760.5	1812.8	1854.8	1870.5	1872.2	1865.1	1885.2	1880.6	1862.2	1875.7	1877.7	1911.8	1905.1	0.5%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	1384.2	1426.1	1461.2	1475.4	1475.5	1474.1	1491.0	1487.8	1476.3	1486.8	1486.7	1512.4	1500.3	0.9%
TDI Diesel ICE	111.0	116.2	118.9	121.9	126.4	124.8	127.6	129.2	125.3	125.9	127.8	130.8	137.7	1.4%
Total Conventional	1495.3	1542.3	1580.2	1597.2	1601.9	1598.9	1618.6	1617.0	1601.6	1612.8	1614.5	1643.2	1637.9	0.9%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8%
Ethanol-Flex Fuel ICE	128.3	133.4	137.7	139.3	139.2	138.6	140.4	139.8	138.1	139.3	139.2	142.3	140.8	1.1%
Ethanol ICE	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	5.0%
Electric Vehicle	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1%
Electric-Diesel Hybrid	2.0	2.4	2.6	2.7	3.2	3.2	3.3	3.6	3.4	3.4	3.5	3.7	3.9	12.9%
Electric-Gasoline Hybrid	63.6	67.2	70.4	71.3	71.7	71.5	72.4	72.1	71.5	72.2	72.5	73.6	73.7	9.8%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.8%
Compressed Natural Gas Bi-fuel	6.8	7.0	7.2	7.3	7.3	7.3	7.4	7.4	7.3	7.4	7.4	7.5	7.5	1.1%
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.9%
Liquefied Petroleum Gas Bi-fuel	22.6	23.3	23.9	24.2	24.3	24.2	24.5	24.5	24.2	24.4	24.4	24.9	24.8	1.1%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	224.4	234.5	243.0	245.9	246.8	246.0	249.2	248.6	245.8	248.0	248.3	253.3	251.9	2.4%

**Table 40. Light-Duty Vehicle Sales by Technology Type
(Thousands)**

South Atlantic	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001- 2025
Percent Alternative Light Truck Sales	13.05	13.20	13.33	13.34	13.35	13.34	13.34	13.33	13.31	13.33	13.33	13.36	13.33	1.3%
Total New Truck Sales	1719.6	1776.8	1823.2	1843.2	1848.7	1845.0	1867.8	1865.6	1847.4	1860.8	1862.7	1896.5	1889.9	1.1%
Percent Total Alternative Sales	12.20	12.36	12.50	12.52	12.54	12.53	12.55	12.54	12.52	12.53	12.53	12.56	12.55	1.7%
EPACT Legislative Alternative Sales	54.43	56.20	57.63	58.23	58.38	58.23	58.94	58.85	58.27	58.70	58.76	59.82	59.62	0.7%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	3480.1	3589.5	3678.0	3713.7	3720.9	3710.0	3753.0	3746.2	3709.6	3736.5	3740.5	3808.3	3794.9	0.8%

**Table 40. Light-Duty Vehicle Sales by Technology Type
(Thousands)
South Atlantic**

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 41. Light-Duty Vehicle Sales by Technology Type
(Thousands)
East South Central**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	520.8	495.3	480.9	486.6	478.5	457.2	461.4	467.0	461.4	463.0	476.6	477.4	476.2
TDI Diesel ICE	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.1
Total Conventional	521.8	496.4	481.9	487.6	479.5	458.2	462.4	468.0	462.4	464.0	477.7	478.4	477.2
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	12.6	29.6	28.4	28.7	28.2	26.6	27.0	27.6	27.2	27.4	28.5	28.6	28.5
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Electric Vehicle	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric-Diesel Hybrid	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.6	1.0	1.1	1.2	1.3	1.4
Electric-Gasoline Hybrid	2.2	4.8	6.7	10.0	15.4	15.2	18.8	22.4	23.6	24.5	26.1	26.8	27.4
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas Bi-fuel	2.6	2.9	2.7	2.7	2.6	2.5	2.5	2.4	2.4	2.3	2.3	2.3	2.3
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	18.4	38.4	39.0	42.5	47.5	45.4	49.5	53.9	55.1	56.2	59.1	60.0	60.6
Percent Alternative Car Sales	3.41	7.19	7.48	8.02	9.01	9.02	9.67	10.33	10.64	10.81	11.01	11.15	11.27
Total New Car Sales	540.2	534.8	520.9	530.2	527.0	503.6	511.9	521.9	517.4	520.2	536.8	538.5	537.8
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	424.8	385.3	375.0	385.8	388.4	375.7	383.6	396.2	394.8	399.6	414.8	419.4	419.9
TDI Diesel ICE	20.6	34.6	34.9	37.3	36.2	36.1	37.3	34.7	35.3	35.5	36.3	35.0	35.7
Total Conventional	445.4	419.9	409.9	423.1	424.6	411.8	420.9	430.8	430.1	435.2	451.1	454.4	455.6
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	14.3	34.6	33.4	34.8	34.8	33.4	34.6	36.0	35.8	36.3	38.2	38.7	38.8
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Electric-Diesel Hybrid	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.4	0.5	0.5	0.5	0.6
Electric-Gasoline Hybrid	1.3	2.5	3.6	6.1	9.7	9.7	12.6	15.5	16.3	17.0	18.0	18.5	19.0
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.6	1.8	1.8	1.9	1.9	1.8	1.9	1.9	1.9	2.0	2.0	2.1	2.1
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gas Bi-fuel	5.3	6.1	6.0	6.2	6.3	6.1	6.3	6.4	6.4	6.5	6.8	6.8	6.9
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	22.9	45.3	45.1	49.4	53.2	51.4	55.9	60.4	61.2	62.6	65.8	67.0	67.7
Percent Alternative Light Truck Sales	4.89	9.75	9.92	10.46	11.13	11.11	11.72	12.29	12.46	12.57	12.74	12.85	12.93

**Table 41. Light-Duty Vehicle Sales by Technolgy Type
(Thousands)**

East South Central

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Total New Truck Sales	468.2	465.2	455.0	472.5	477.8	463.2	476.7	491.2	491.3	497.8	516.9	521.4	523.3
Percent Total Alternative Sales	4.10	8.38	8.62	9.17	10.02	10.02	10.66	11.28	11.53	11.67	11.86	11.99	12.09
EPACT Legislative Alternative Sales	13.40	15.99	15.53	15.94	15.95	15.32	15.62	15.96	15.84	15.92	16.41	16.54	16.58
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	1008.5	1000.0	975.9	1002.7	1004.8	966.9	988.7	1013.1	1008.8	1018.0	1053.7	1059.9	1061.1

**Table 41. Light-Duty Vehicle Sales by Technology Type
(Thousands)
East South Central**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	479.0	489.1	496.4	497.3	494.3	489.3	491.3	486.9	479.3	479.7	477.2	482.7	477.9	-0.1%
TDI Diesel ICE	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.6	1.9%
Total Conventional	480.1	490.3	497.6	498.5	495.6	490.5	492.6	488.2	480.6	481.0	478.6	484.2	479.5	-0.1%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.8%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.8%
Ethanol-Flex Fuel ICE	28.8	29.6	30.2	30.3	30.0	29.6	29.8	29.5	28.9	28.9	28.7	29.2	28.8	-0.1%
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.9%
Electric Vehicle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.8%
Electric-Diesel Hybrid	1.5	1.8	1.9	1.9	2.2	2.2	2.2	2.4	2.3	2.3	2.3	2.4	2.4	13.3%
Electric-Gasoline Hybrid	28.2	29.5	30.6	30.7	30.6	30.3	30.4	30.1	29.7	29.7	29.6	29.9	29.7	7.9%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.4%
Compressed Natural Gas Bi-fuel	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	-0.7%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.7%
Liquefied Petroleum Gas Bi-fuel	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	-0.8%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	61.8	64.2	66.0	66.3	66.1	65.4	65.8	65.3	64.1	64.2	63.8	64.8	64.2	2.2%
Percent Alternative Car Sales	11.40	11.57	11.72	11.73	11.77	11.77	11.79	11.80	11.77	11.77	11.77	11.80	11.81	2.1%
Total New Car Sales	541.9	554.4	563.7	564.8	561.7	556.0	558.4	553.5	544.7	545.2	542.5	549.0	543.7	0.1%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	424.2	434.2	442.1	443.6	440.7	437.5	439.6	435.8	429.8	430.2	427.5	432.1	425.9	0.4%
TDI Diesel ICE	36.2	37.6	38.2	38.8	40.0	39.2	39.9	40.2	38.7	38.6	39.0	39.8	41.7	0.8%
Total Conventional	460.3	471.8	480.3	482.4	480.7	476.7	479.5	476.0	468.5	468.9	466.5	471.9	467.6	0.4%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.5%
Ethanol-Flex Fuel ICE	39.3	40.6	41.7	41.9	41.6	41.1	41.4	41.0	40.2	40.3	40.0	40.7	40.0	0.6%
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	6.3%
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6%
Electric-Diesel Hybrid	0.6	0.8	0.8	0.8	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.1	1.1	12.2%
Electric-Gasoline Hybrid	19.6	20.6	21.4	21.6	21.5	21.3	21.5	21.2	20.9	21.0	21.0	21.2	21.0	9.3%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.9%
Compressed Natural Gas Bi-fuel	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.2	2.1	0.6%
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7%
Liquefied Petroleum Gas Bi-fuel	6.9	7.1	7.3	7.3	7.3	7.2	7.3	7.2	7.1	7.1	7.1	7.1	7.1	0.6%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	69.0	71.6	73.8	74.2	74.0	73.3	73.7	73.1	71.8	72.0	71.7	72.7	71.8	1.9%
Percent Alternative Light Truck Sales	13.03	13.18	13.32	13.33	13.34	13.32	13.33	13.31	13.29	13.31	13.31	13.34	13.31	1.3%

**Table 41. Light-Duty Vehicle Sales by Technolgy Type
(Thousands)**

East South Central

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001- 2025
Total New Truck Sales	529.3	543.4	554.1	556.6	554.6	550.0	553.2	549.1	540.3	540.9	538.1	544.6	539.4	0.6%
Percent Total Alternative Sales	12.21	12.37	12.51	12.53	12.55	12.54	12.56	12.55	12.53	12.54	12.54	12.57	12.56	1.7%
EPACT Legislative Alternative Sales	16.75	17.19	17.51	17.58	17.51	17.36	17.46	17.32	17.04	17.06	16.98	17.18	17.01	0.3%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	1071.2	1097.9	1117.7	1121.4	1116.3	1106.0	1111.6	1102.6	1085.0	1086.1	1080.6	1093.5	1083.1	0.3%

**Table 41. Light-Duty Vehicle Sales by Technology Type
(Thousands)
East South Central**

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 42. Light-Duty Vehicle Sales by Technology Type
(Thousands)
West South Central**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	943.0	895.0	868.7	879.7	867.5	832.6	844.4	859.2	853.4	861.2	891.6	898.2	900.9
TDI Diesel ICE	1.9	1.8	1.8	1.9	1.8	1.8	1.9	1.8	1.8	1.9	2.0	1.9	2.0
Total Conventional	944.9	896.8	870.5	881.6	869.4	834.4	846.3	861.0	855.2	863.1	893.6	900.1	902.9
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	22.8	53.5	51.4	51.9	51.1	48.4	49.4	50.7	50.3	50.9	53.4	53.8	54.0
Ethanol ICE	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1
Electric Vehicle	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Electric-Diesel Hybrid	0.3	0.2	0.3	0.4	0.5	0.5	0.6	1.0	1.9	2.0	2.3	2.5	2.7
Electric-Gasoline Hybrid	3.9	8.7	12.0	18.0	28.0	27.6	34.3	41.2	43.5	45.5	48.8	50.4	51.8
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.4	1.5	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Liquefied Petroleum Gas ICE	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Liquefied Petroleum Gas Bi-fuel	4.6	5.2	4.9	4.9	4.8	4.5	4.5	4.5	4.4	4.3	4.4	4.4	4.4
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	33.4	69.5	70.4	76.9	86.2	82.8	90.6	99.2	101.8	104.5	110.6	112.9	114.6
Percent Alternative Car Sales	3.42	7.19	7.49	8.03	9.02	9.02	9.67	10.33	10.64	10.80	11.01	11.15	11.26
Total New Car Sales	978.3	966.3	940.9	958.6	955.5	917.2	936.9	960.2	957.1	967.6	1004.1	1013.0	1017.5
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	769.6	699.5	679.2	699.2	704.6	684.8	703.4	730.1	731.7	745.0	777.4	790.5	795.7
TDI Diesel ICE	36.9	58.8	61.0	65.6	65.2	65.1	66.7	62.3	63.8	64.3	66.3	64.3	66.1
Total Conventional	806.4	758.3	740.2	764.8	769.8	749.9	770.1	792.4	795.4	809.3	843.7	854.8	861.7
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	25.9	62.7	60.4	63.1	63.2	60.8	63.5	66.3	66.3	67.7	71.5	72.9	73.5
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric Vehicle	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Electric-Diesel Hybrid	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	0.8	0.8	0.9	1.0	1.1
Electric-Gasoline Hybrid	2.3	4.5	6.6	11.1	17.6	17.7	23.0	28.4	30.1	31.5	33.6	34.8	35.9
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	2.9	3.3	3.3	3.4	3.4	3.4	3.5	3.6	3.6	3.7	3.8	3.9	3.9
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
Liquefied Petroleum Gas Bi-fuel	9.6	11.0	10.8	11.2	11.4	11.1	11.4	11.9	11.9	12.1	12.7	12.9	13.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	41.5	82.2	81.7	89.5	96.4	93.8	102.4	111.2	113.3	116.5	123.3	126.2	128.2
Percent Alternative Light Truck Sales	4.89	9.78	9.94	10.48	11.13	11.11	11.73	12.30	12.47	12.58	12.75	12.86	12.95
Total New Truck Sales	847.9	840.5	821.9	854.3	866.3	843.7	872.5	903.6	908.8	925.8	967.0	981.0	989.9
Percent Total Alternative Sales	4.10	8.39	8.63	9.18	10.03	10.03	10.66	11.29	11.53	11.67	11.87	11.99	12.10
EPACT Legislative Alternative Sales	24.27	28.89	28.05	28.82	28.92	27.90	28.59	29.36	29.29	29.61	30.70	31.11	31.36
ZEV Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	1826.2	1806.8	1762.8	1812.9	1821.8	1760.9	1809.4	1863.8	1865.8	1893.5	1971.1	1994.0	2007.4

**Table 42. Light-Duty Vehicle Sales by Technology Type
(Thousands)
West South Central**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	911.1	935.4	954.5	961.3	960.5	955.7	964.5	960.6	950.3	955.8	955.3	970.9	965.8	0.3%
TDI Diesel ICE	2.1	2.2	2.3	2.3	2.4	2.4	2.5	2.6	2.6	2.7	2.8	2.9	3.2	2.5%
Total Conventional	913.2	937.6	956.8	963.6	962.9	958.1	967.0	963.3	952.9	958.4	958.1	973.8	969.0	0.3%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.5%
Ethanol-Flex Fuel ICE	54.8	56.6	58.1	58.5	58.4	57.9	58.5	58.1	57.2	57.6	57.5	58.6	58.1	0.3%
Ethanol ICE	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	5.4%
Electric Vehicle	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.3	-0.4%
Electric-Diesel Hybrid	2.9	3.4	3.6	3.6	4.2	4.2	4.3	4.7	4.5	4.5	4.5	4.8	4.9	14.0%
Electric-Gasoline Hybrid	53.6	56.3	58.7	59.3	59.3	59.1	59.7	59.3	58.8	59.2	59.2	60.1	59.9	8.4%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.0%
Compressed Natural Gas Bi-fuel	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	-0.2%
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	1.2%
Liquefied Petroleum Gas Bi-fuel	4.5	4.6	4.7	4.7	4.7	4.7	4.8	4.7	4.7	4.7	4.7	4.8	4.8	-0.4%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	117.5	122.7	127.0	128.1	128.5	127.8	129.2	128.8	127.0	127.8	127.7	130.2	129.6	2.6%
Percent Alternative Car Sales	11.40	11.57	11.71	11.73	11.77	11.77	11.78	11.79	11.76	11.77	11.76	11.79	11.80	2.1%
Total New Car Sales	1030.7	1060.3	1083.7	1091.7	1091.4	1085.9	1096.2	1092.0	1079.9	1086.2	1085.8	1104.0	1098.6	0.5%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	807.8	831.5	851.0	858.5	857.5	855.7	864.1	861.1	853.4	858.3	857.0	870.5	862.2	0.9%
TDI Diesel ICE	67.6	70.7	72.3	73.8	76.3	75.3	77.1	77.9	75.4	75.7	76.7	78.5	82.4	1.4%
Total Conventional	875.5	902.1	923.3	932.2	933.8	931.0	941.2	939.0	928.8	934.0	933.6	949.0	944.6	0.9%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4%
Ethanol-Flex Fuel ICE	74.9	77.8	80.2	81.0	80.9	80.5	81.4	80.9	79.8	80.4	80.3	81.9	80.9	1.1%
Ethanol ICE	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	6.6%
Electric Vehicle	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1%
Electric-Diesel Hybrid	1.2	1.5	1.6	1.6	1.9	1.9	2.0	2.2	2.0	2.0	2.1	2.2	2.3	12.9%
Electric-Gasoline Hybrid	37.3	39.3	41.2	41.7	41.8	41.7	42.1	41.9	41.5	41.8	41.9	42.5	42.5	9.8%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.4%
Compressed Natural Gas Bi-fuel	4.0	4.1	4.2	4.3	4.3	4.3	4.3	4.3	4.2	4.3	4.3	4.3	4.3	1.1%
Liquefied Petroleum Gas ICE	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	3.6%
Liquefied Petroleum Gas Bi-fuel	13.2	13.6	14.0	14.1	14.1	14.1	14.2	14.2	14.1	14.1	14.1	14.4	14.3	1.1%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	131.4	137.1	142.0	143.5	143.9	143.2	144.9	144.3	142.5	143.6	143.5	146.2	145.2	2.4%
Percent Alternative Light Truck Sales	13.05	13.20	13.33	13.34	13.35	13.33	13.34	13.32	13.30	13.32	13.32	13.35	13.33	1.3%
Total New Truck Sales	1006.8	1039.3	1065.3	1075.8	1077.7	1074.2	1086.1	1083.3	1071.3	1077.6	1077.2	1095.2	1089.8	1.1%
Percent Total Alternative Sales	12.21	12.38	12.51	12.53	12.55	12.55	12.56	12.55	12.53	12.54	12.54	12.57	12.56	1.7%
EPACT Legislative Alternative Sales	31.87	32.87	33.67	33.98	34.03	33.91	34.27	34.17	33.79	33.99	33.98	34.55	34.38	0.7%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	2037.6	2099.6	2149.0	2167.5	2169.1	2160.1	2182.3	2175.4	2151.3	2163.8	2163.0	2199.2	2188.5	0.8%

**Table 42. Light-Duty Vehicle Sales by Technology Type
(Thousands)
West South Central**

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 43. Light-Duty Vehicle Sales by Technology Type
(Thousands)
Mountain**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	514.4	495.7	487.6	499.6	497.7	482.4	493.8	506.9	507.9	516.9	539.7	548.2	554.4
TDI Diesel ICE	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.2	1.2	1.3	1.3	1.3
Total Conventional	515.5	496.8	488.7	500.7	498.8	483.6	494.9	508.0	509.0	518.1	541.0	549.4	555.7
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	12.5	29.6	28.8	29.4	29.3	28.1	28.9	29.9	30.0	30.6	32.3	32.9	33.2
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Vehicle	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric-Diesel Hybrid	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.7	1.2	1.3	1.5	1.6	1.7
Electric-Gasoline Hybrid	2.2	5.0	6.9	10.4	16.5	16.4	20.6	25.0	26.6	28.1	30.3	31.6	32.7
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Liquefied Petroleum Gas Bi-fuel	2.5	2.9	2.8	2.8	2.8	2.6	2.6	2.7	2.6	2.6	2.6	2.7	2.7
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	18.3	38.7	39.7	43.9	49.9	48.4	53.6	59.3	61.4	63.6	67.9	69.9	71.5
Percent Alternative Car Sales	3.44	7.22	7.51	8.06	9.10	9.10	9.77	10.45	10.77	10.94	11.15	11.28	11.40
Total New Car Sales	533.8	535.5	528.4	544.7	548.8	532.0	548.5	567.3	570.5	581.8	608.8	619.3	627.2
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	417.8	383.1	379.3	395.2	401.3	393.8	407.9	427.7	432.2	443.8	467.3	479.3	486.6
TDI Diesel ICE	22.2	37.4	36.4	39.4	40.8	41.1	42.9	40.3	41.8	42.6	44.0	43.0	44.4
Total Conventional	440.0	420.5	415.7	434.6	442.1	434.9	450.8	468.0	474.0	486.4	511.3	522.4	531.0
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	14.1	34.4	33.7	35.7	36.0	35.0	36.8	38.8	39.2	40.3	43.0	44.2	44.9
Ethanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Electric Vehicle	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
Electric-Diesel Hybrid	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.5	0.5	0.6	0.7	0.7
Electric-Gasoline Hybrid	1.3	2.6	3.8	6.4	10.4	10.5	13.8	17.2	18.4	19.4	20.8	21.7	22.6
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	1.6	1.8	1.8	1.9	2.0	1.9	2.0	2.1	2.1	2.2	2.3	2.4	2.4
Liquefied Petroleum Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Liquefied Petroleum Gas Bi-fuel	5.3	6.1	6.1	6.4	6.5	6.4	6.7	7.0	7.1	7.3	7.7	7.9	8.0
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Table 43. Light-Duty Vehicle Sales by Technology Type
(Thousands)
Mountain**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Alternatives	22.7	45.3	45.8	50.8	55.4	54.4	60.0	65.8	67.7	70.2	75.0	77.4	79.3
Percent Alternative Light Truck Sales	4.90	9.72	9.93	10.47	11.14	11.12	11.74	12.33	12.50	12.62	12.79	12.90	12.99
Total New Truck Sales	462.7	465.8	461.5	485.4	497.5	489.3	510.8	533.9	541.7	556.6	586.3	599.7	610.2
Percent Total Alternative Sales	4.12	8.39	8.64	9.20	10.07	10.07	10.72	11.36	11.61	11.76	11.95	12.08	12.18
EPACT Legislative Alternative Sales	13.24	16.01	15.75	16.38	16.61	16.18	16.74	17.35	17.46	17.80	18.62	19.02	19.33
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Vehicles Sales	996.5	1001.3	989.9	1030.1	1046.3	1021.3	1059.3	1101.1	1112.2	1138.4	1195.1	1219.1	1237.5

Table 43. Light-Duty Vehicle Sales by Technology Type

(Thousands)

Mountain

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	565.4	585.3	602.1	611.4	615.8	617.7	628.5	631.1	629.3	638.1	643.0	658.8	660.7	1.2%
TDI Diesel ICE	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.8	1.8	1.9	2.0	2.1	2.3	3.2%
Total Conventional	566.8	586.7	603.6	612.9	617.5	619.4	630.2	632.9	631.2	640.0	645.0	660.9	663.1	1.2%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2%
Ethanol-Flex Fuel ICE	34.0	35.4	36.6	37.2	37.4	37.4	38.1	38.2	37.9	38.4	38.7	39.8	39.8	1.2%
Ethanol ICE	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5.7%
Electric Vehicle	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5%
Electric-Diesel Hybrid	1.9	2.2	2.4	2.4	2.8	2.8	2.9	3.3	3.1	3.1	3.2	3.4	3.5	14.8%
Electric-Gasoline Hybrid	34.1	36.1	37.9	38.6	38.9	39.1	39.8	39.9	39.8	40.4	40.8	41.7	41.9	9.3%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Compressed Natural Gas Bi-fuel	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.6%
Liquefied Petroleum Gas ICE	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5%
Liquefied Petroleum Gas Bi-fuel	2.8	2.9	3.0	3.0	3.0	3.1	3.1	3.1	3.1	3.2	3.2	3.3	3.3	0.5%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	73.9	77.8	81.2	82.6	83.5	83.7	85.3	85.7	85.2	86.4	87.1	89.4	89.8	3.6%
Percent Alternative Car Sales	11.54	11.71	11.85	11.87	11.91	11.90	11.92	11.93	11.89	11.90	11.89	11.92	11.92	2.1%
Total New Car Sales	640.7	664.6	684.8	695.5	701.0	703.1	715.5	718.6	716.4	726.4	732.1	750.4	752.9	1.4%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	498.3	517.1	533.7	542.8	546.5	549.9	559.8	562.4	562.0	569.9	573.7	587.4	586.3	1.8%
TDI Diesel ICE	45.6	48.0	49.5	50.8	53.1	52.7	54.3	55.3	53.9	54.5	55.7	57.5	60.8	2.0%
Total Conventional	543.9	565.2	583.2	593.7	599.5	602.5	614.1	617.7	615.9	624.4	629.3	644.9	647.2	1.8%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7%
Ethanol-Flex Fuel ICE	46.2	48.4	50.3	51.3	51.6	51.7	52.7	52.9	52.6	53.4	53.7	55.3	55.0	2.0%
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	6.6%
Electric Vehicle	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2.0%
Electric-Diesel Hybrid	0.8	1.0	1.0	1.1	1.3	1.3	1.3	1.5	1.4	1.4	1.5	1.6	1.6	13.7%
Electric-Gasoline Hybrid	23.6	25.1	26.5	27.0	27.3	27.4	28.0	28.0	28.0	28.4	28.7	29.4	29.6	10.7%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2%
Compressed Natural Gas Bi-fuel	2.5	2.6	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.9	2.9	2.9	3.0	2.0%
Liquefied Petroleum Gas ICE	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.9%
Liquefied Petroleum Gas Bi-fuel	8.2	8.5	8.8	9.0	9.1	9.1	9.3	9.4	9.3	9.5	9.5	9.8	9.8	2.0%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A

**Table 43. Light-Duty Vehicle Sales by Technology Type
(Thousands)
Mountain**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001- 2025
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Alternatives	81.9	86.2	90.0	91.7	92.6	93.0	94.8	95.2	94.7	96.2	96.9	99.5	99.7	3.3%
Percent Alternative Light Truck Sales	13.09	13.24	13.37	13.38	13.38	13.37	13.37	13.35	13.33	13.35	13.35	13.37	13.34	1.3%
Total New Truck Sales	625.8	651.4	673.2	685.3	692.2	695.5	708.9	712.8	710.7	720.6	726.2	744.4	746.8	2.0%
Percent Total Alternative Sales	12.30	12.47	12.60	12.62	12.64	12.63	12.64	12.63	12.61	12.62	12.62	12.64	12.63	1.7%
EPACT Legislative Alternative Sales	19.81	20.60	21.28	21.65	21.86	21.95	22.37	22.49	22.42	22.73	22.91	23.48	23.56	1.6%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	1266.6	1315.9	1358.0	1380.8	1393.1	1398.6	1424.4	1431.4	1427.0	1447.1	1458.3	1494.8	1499.7	1.7%

**Table 43. Light-Duty Vehicle Sales by Technology Type
(Thousands)
Mountain**

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 44. Light-Duty Vehicle Sales by Technology Type
(Thousands)
Pacific**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	1379.8	1302.6	1260.0	1272.2	1250.0	1197.2	1212.1	1120.6	992.1	998.8	1033.7	1023.5	1025.2
TDI Diesel ICE	3.0	3.1	2.7	2.8	3.2	3.1	3.0	3.0	3.3	3.4	3.5	3.4	3.4
Total Conventional	1382.8	1305.7	1262.7	1275.0	1253.2	1200.3	1215.0	1123.6	995.4	1002.2	1037.2	1026.9	1028.6
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	33.4	77.8	74.5	75.0	73.6	69.6	71.0	72.7	72.0	72.8	76.1	76.8	76.9
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric Vehicle	0.3	0.4	0.4	0.4	0.4	0.6	0.8	0.9	1.1	1.4	2.1	4.4	7.6
Electric-Diesel Hybrid	0.4	0.4	0.4	0.5	0.8	0.8	1.0	4.6	13.7	14.5	15.7	17.4	17.5
Electric-Gasoline Hybrid	6.0	13.3	17.8	26.7	42.0	41.3	51.0	168.4	282.0	286.9	297.3	314.2	314.2
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	2.0	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8
Liquefied Petroleum Gas ICE	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8
Liquefied Petroleum Gas Bi-fuel	6.8	7.6	7.2	7.1	6.9	6.5	6.5	6.5	6.3	6.2	6.2	6.3	6.3
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3
Total Alternatives	49.3	101.8	102.6	112.0	126.0	121.1	132.5	255.4	377.5	384.4	400.1	421.9	425.5
Percent Alternative Car Sales	3.44	7.23	7.52	8.07	9.14	9.16	9.83	18.52	27.50	27.72	27.84	29.12	29.26
Total New Car Sales	1432.1	1407.5	1365.3	1387.0	1379.3	1321.4	1347.5	1379.0	1372.9	1386.5	1437.3	1448.8	1454.2
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	1118.3	997.0	982.6	1008.9	992.6	964.7	996.3	984.8	921.3	935.5	981.8	992.2	1005.2
TDI Diesel ICE	62.1	109.0	91.4	97.4	119.6	114.2	108.2	109.5	120.1	122.4	122.6	118.1	116.0
Total Conventional	1180.4	1106.0	1074.0	1106.3	1112.2	1079.0	1104.6	1094.2	1041.4	1057.8	1104.4	1110.3	1121.2
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	37.7	89.5	87.4	91.0	89.2	86.0	90.3	93.4	92.7	94.4	99.9	101.9	103.0
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electric Vehicle	0.4	0.5	0.5	0.5	0.5	2.5	3.6	5.4	6.2	8.0	7.6	8.6	6.2
Electric-Diesel Hybrid	0.2	0.2	0.3	0.3	0.5	0.5	0.5	1.3	4.0	4.3	4.6	5.0	5.2
Electric-Gasoline Hybrid	3.6	6.8	9.8	16.4	26.2	26.3	34.1	80.7	136.6	138.7	143.1	152.1	153.8
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compressed Natural Gas Bi-fuel	4.3	4.8	4.7	4.9	5.0	4.8	5.0	5.1	5.2	5.3	5.5	5.6	5.6
Liquefied Petroleum Gas ICE	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.6	0.7	0.8	1.0
Liquefied Petroleum Gas Bi-fuel	14.1	16.1	15.6	16.2	16.4	15.9	16.5	17.0	17.1	17.4	18.2	18.4	18.6
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Total Alternatives	60.8	118.3	118.6	129.8	138.2	136.5	150.4	203.6	262.3	268.8	279.8	292.6	293.6
Percent Alternative Light Truck Sales	4.90	9.66	9.95	10.50	11.05	11.23	11.98	15.69	20.12	20.26	20.21	20.86	20.75

**Table 44. Light-Duty Vehicle Sales by Technology Type
(Thousands)
Pacific**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Total New Truck Sales	1241.2	1224.3	1192.6	1236.1	1250.4	1215.4	1254.9	1297.8	1303.6	1326.6	1384.2	1402.9	1414.8
Percent Total Alternative Sales	4.12	8.36	8.65	9.22	10.05	10.15	10.87	17.15	23.90	24.07	24.10	25.05	25.07
EPACT Legislative Alternative Sales	35.52	42.09	40.70	41.71	41.75	40.19	41.12	42.17	42.02	42.43	43.95	44.49	44.82
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	176.82	336.61	505.11	661.06	674.38	699.51	728.36	733.06
Total Vehicles Sales	2673.3	2631.8	2557.9	2623.0	2629.7	2536.8	2602.4	2676.9	2676.5	2713.2	2821.5	2851.7	2868.9

**Table 44. Light-Duty Vehicle Sales by Technology Type
(Thousands)
Pacific**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	1038.6	1048.5	1067.6	1077.8	1036.0	1027.0	1039.8	989.2	973.8	983.5	987.6	1004.2	1004.9	-1.1%
TDI Diesel ICE	3.5	3.8	3.6	3.7	4.1	4.3	4.5	4.5	4.3	4.4	4.7	5.1	5.4	2.4%
Total Conventional	1042.1	1052.3	1071.2	1081.4	1040.1	1031.3	1044.3	993.8	978.1	987.9	992.3	1009.3	1010.4	-1.1%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.9%
Ethanol-Flex Fuel ICE	78.0	80.5	82.6	83.2	82.9	82.2	83.1	82.5	81.3	81.8	81.7	83.3	82.6	0.3%
Ethanol ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.3%
Electric Vehicle	9.2	14.4	16.6	16.8	25.1	25.8	24.7	34.4	34.7	33.1	32.6	32.3	31.0	19.9%
Electric-Diesel Hybrid	18.1	22.0	21.7	21.7	28.1	29.4	30.1	35.4	33.3	33.1	33.2	35.8	35.5	21.1%
Electric-Gasoline Hybrid	315.3	334.8	344.4	343.9	370.0	369.0	369.8	400.0	401.4	401.6	397.6	402.3	395.8	15.2%
Compressed Natural Gas ICE	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1%
Compressed Natural Gas Bi-fuel	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	-0.3%
Liquefied Petroleum Gas ICE	0.9	1.1	1.3	1.5	1.6	1.8	1.9	2.0	2.1	2.2	2.2	2.2	2.3	11.4%
Liquefied Petroleum Gas Bi-fuel	6.4	6.6	6.7	6.8	6.8	6.7	6.8	6.8	6.7	6.7	6.7	6.8	6.8	-0.4%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.4	0.3	0.4	0.5	0.4	0.5	0.8	0.6	0.8	1.2	1.3	1.8	2.2	N/A
Total Alternatives	430.3	461.8	475.7	476.4	516.9	517.6	519.3	563.9	562.4	561.9	557.4	566.7	558.4	7.3%
Percent Alternative Car Sales	29.22	30.50	30.75	30.58	33.20	33.42	33.21	36.20	36.51	36.26	35.97	35.96	35.60	6.9%
Total New Car Sales	1472.4	1514.0	1546.9	1557.8	1557.0	1548.9	1563.5	1557.6	1540.5	1549.8	1549.7	1576.0	1568.8	0.5%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	1026.3	1046.7	1081.8	1093.5	1066.0	1055.4	1065.9	1046.6	1040.7	1047.5	1044.8	1057.6	1050.0	0.2%
TDI Diesel ICE	116.4	125.2	115.9	117.0	130.9	138.2	141.8	139.3	129.2	129.2	133.6	140.9	144.0	1.2%
Total Conventional	1142.6	1171.9	1197.7	1210.5	1196.9	1193.6	1207.7	1185.8	1169.9	1176.8	1178.4	1198.4	1194.0	0.3%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.5%
Ethanol-Flex Fuel ICE	105.1	108.8	113.1	114.3	113.3	111.9	113.1	112.7	111.8	112.7	112.2	114.2	113.1	1.0%
Ethanol ICE	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	5.1%
Electric Vehicle	3.8	2.6	1.6	1.2	1.0	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.7	1.4%
Electric-Diesel Hybrid	5.5	7.0	6.9	7.0	9.5	9.9	10.2	12.0	11.1	11.1	11.3	12.2	12.4	18.4%
Electric-Gasoline Hybrid	155.1	166.6	173.2	173.6	188.2	187.0	187.5	204.1	204.8	205.7	203.9	206.1	203.7	15.2%
Compressed Natural Gas ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.7%
Compressed Natural Gas Bi-fuel	5.7	5.9	6.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.2	6.2	1.0%
Liquefied Petroleum Gas ICE	1.2	1.4	1.7	1.9	2.0	2.3	2.5	2.6	2.8	2.9	3.0	3.0	3.2	12.0%
Liquefied Petroleum Gas Bi-fuel	18.9	19.5	19.9	20.1	20.2	20.1	20.3	20.3	20.1	20.2	20.2	20.5	20.4	1.0%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.1	0.1	0.2	0.2	0.2	0.3	0.5	0.5	0.7	1.0	1.3	1.7	2.3	N/A
Total Alternatives	295.6	312.1	322.9	324.6	340.6	338.6	341.4	359.4	358.3	360.7	358.9	365.0	362.3	4.8%
Percent Alternative Light Truck Sales	20.55	21.03	21.23	21.15	22.15	22.10	22.04	23.26	23.45	23.46	23.35	23.35	23.28	3.7%

**Table 44. Light-Duty Vehicle Sales by Technology Type
(Thousands)
Pacific**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001- 2025
Total New Truck Sales	1438.2	1484.0	1520.6	1535.1	1537.5	1532.2	1549.1	1545.2	1528.2	1537.5	1537.3	1563.5	1556.3	1.0%
Percent Total Alternative Sales	24.94	25.81	26.03	25.90	27.71	27.79	27.65	29.75	30.00	29.88	29.68	29.68	29.46	5.4%
EPACT Legislative Alternative Sales	45.52	46.93	48.06	48.49	48.55	48.36	48.88	48.74	48.21	48.50	48.49	49.32	49.09	0.6%
ZEPV Legislative Alternative Sales	739.75	784.28	805.04	807.56	855.67	854.53	859.07	906.06	898.57	899.85	895.64	911.21	902.89	N/A
Total Vehicles Sales	2910.6	2998.0	3067.5	3092.9	3094.5	3081.2	3112.6	3102.8	3068.7	3087.3	3087.0	3139.5	3125.1	0.7%

**Table 44. Light-Duty Vehicle Sales by Technology Type
(Thousands)
Pacific**

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 45. Light-Duty Vehicle Sales by Technology Type
(Thousands)
United States**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
New Car Sales 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	8674.0	8191.4	7917.5	7986.7	7843.7	7499.4	7577.4	7571.6	7248.5	7362.0	7595.8	7521.6	7602.1
TDI Diesel ICE	17.9	17.2	16.4	17.2	17.2	16.8	17.1	16.4	16.9	17.3	18.0	17.6	18.0
Total Conventional	8691.9	8208.6	7933.9	8003.9	7860.9	7516.3	7594.5	7588.0	7265.5	7379.3	7613.8	7539.2	7620.1
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	210.0	489.4	468.2	470.7	462.2	436.2	443.5	453.6	448.5	452.2	472.2	474.9	474.7
Ethanol ICE	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.7	0.8	0.8	0.8
Electric Vehicle	2.2	2.5	2.4	2.4	2.3	2.5	2.9	3.0	3.2	3.6	4.5	7.5	12.2
Electric-Diesel Hybrid	2.4	2.0	2.6	3.3	4.5	4.6	5.6	12.5	32.8	31.8	35.0	42.1	39.6
Electric-Gasoline Hybrid	36.7	81.1	110.3	164.7	255.9	251.7	311.6	479.6	730.3	678.2	712.5	823.2	752.3
Compressed Natural Gas ICE	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.4	0.3	0.3	0.3	0.3
Compressed Natural Gas Bi-fuel	12.3	13.3	12.8	12.7	12.4	11.6	11.5	11.5	11.2	11.0	11.1	11.1	11.1
Liquefied Petroleum Gas ICE	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.8	0.9	1.1	1.2	1.3
Liquefied Petroleum Gas Bi-fuel	42.7	47.5	45.0	44.7	43.4	40.6	40.3	40.2	39.0	38.3	38.6	38.8	38.8
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.7	1.1	1.4
Total Alternatives	307.9	637.2	642.7	699.8	782.1	748.7	817.2	1002.2	1267.1	1217.4	1276.7	1401.0	1332.5
Percent Alternative Car Sales	3.42	7.20	7.49	8.04	9.05	9.06	9.71	11.67	14.85	14.16	14.36	15.67	14.88
Total New Car Sales	8999.7	8845.8	8576.6	8703.7	8643.1	8265.0	8411.6	8590.2	8532.6	8596.7	8890.5	8940.2	8952.6
New Light Truck Sales 2/													
Conventional Vehicles													
Gasoline ICE Vehicles	7060.3	6358.0	6187.8	6346.2	6348.6	6148.0	6298.6	6466.1	6345.5	6461.3	6727.6	6782.4	6843.0
TDI Diesel ICE	358.3	587.0	559.0	597.3	614.9	606.0	609.7	575.1	595.4	599.8	611.8	591.0	599.8
Total Conventional	7418.6	6945.0	6746.8	6943.5	6963.5	6754.0	6908.3	7041.1	6940.8	7061.1	7339.4	7373.3	7442.8
Alternative-Fuel Vehicles													
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	238.1	570.5	550.3	572.5	569.6	546.4	569.2	591.1	588.7	598.9	630.9	640.9	644.7
Ethanol ICE	0.7	0.7	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.9	1.0	1.0	1.1
Electric Vehicle	2.7	3.3	3.2	3.3	3.3	6.6	8.5	11.6	13.0	16.2	15.6	17.6	13.9
Electric-Diesel Hybrid	1.4	1.2	1.6	2.0	2.8	2.9	2.8	4.5	10.7	10.9	12.0	13.8	13.9
Electric-Gasoline Hybrid	21.9	41.8	60.4	101.5	160.8	160.9	208.9	295.8	408.4	395.4	415.0	460.8	442.7
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	26.9	30.4	29.7	30.7	31.1	30.1	31.0	32.0	32.1	32.6	33.9	34.3	34.5
Liquefied Petroleum Gas ICE	0.9	0.7	0.8	0.9	0.9	0.9	1.0	1.1	1.2	1.4	1.6	1.7	1.9
Liquefied Petroleum Gas Bi-fuel	88.7	100.9	98.3	101.8	102.8	99.7	102.8	106.1	106.3	107.9	112.3	113.6	114.3
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.4
Total Alternatives	381.6	749.6	745.0	813.5	872.0	848.4	925.1	1043.1	1161.3	1164.3	1222.5	1284.0	1267.4
Percent Alternative Light Truck Sales	4.89	9.74	9.94	10.49	11.13	11.16	11.81	12.90	14.33	14.15	14.28	14.83	14.55

**Table 45. Light-Duty Vehicle Sales by Technology Type
(Thousands)**

United States

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Total New Truck Sales	7800.3	7694.6	7491.8	7757.0	7835.6	7602.4	7833.4	8084.2	8102.2	8225.4	8561.9	8657.3	8710.1
Percent Total Alternative Sales	4.10	8.38	8.64	9.19	10.04	10.07	10.72	12.27	14.60	14.16	14.32	15.26	14.72
EPACT Legislative Alternative Sales	223.24	264.52	255.70	261.72	261.61	251.37	256.69	262.67	261.15	263.10	271.86	274.55	275.94
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	0.00	297.19	565.68	848.74	1110.67	1132.94	1175.06	1223.44	1231.27
Total Vehicles Sales	16800.0	16540.4	16068.4	16460.7	16478.7	15867.4	16245.1	16674.4	16634.7	16822.1	17452.4	17597.5	17662.8

**Table 45. Light-Duty Vehicle Sales by Technology Type
(Thousands)
United States**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
New Car Sales 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	7668.1	7738.6	7871.2	7999.3	7814.0	7748.7	7806.7	7679.0	7570.5	7603.7	7591.6	7699.8	7653.7	-0.3%
TDI Diesel ICE	18.6	19.7	20.0	20.6	21.6	21.8	22.6	23.0	22.5	23.1	24.1	25.7	27.8	2.0%
Total Conventional	7686.7	7758.3	7891.2	8019.9	7835.6	7770.5	7829.3	7702.0	7593.0	7626.8	7615.6	7725.5	7681.5	-0.3%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.6%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.6%
Ethanol-Flex Fuel ICE	480.1	495.0	506.5	509.1	506.4	501.2	505.5	501.0	492.2	494.3	492.4	501.5	496.2	0.1%
Ethanol ICE	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.4	3.9%
Electric Vehicle	14.9	23.9	28.4	29.1	43.2	44.5	42.5	59.0	59.5	56.8	55.8	55.2	52.9	13.5%
Electric-Diesel Hybrid	41.8	54.7	56.2	51.4	68.7	70.3	71.9	82.9	78.6	78.1	77.9	83.7	84.1	16.8%
Electric-Gasoline Hybrid	765.4	890.2	918.8	836.2	966.0	963.5	967.9	1016.2	1014.3	1016.9	1010.2	1022.9	1010.5	11.1%
Compressed Natural Gas ICE	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0%
Compressed Natural Gas Bi-fuel	11.2	11.5	11.7	11.8	11.8	11.7	11.8	11.7	11.6	11.6	11.6	11.8	11.7	-0.5%
Liquefied Petroleum Gas ICE	1.5	1.6	1.8	1.9	2.0	2.2	2.3	2.4	2.4	2.5	2.5	2.6	2.6	6.4%
Liquefied Petroleum Gas Bi-fuel	39.2	40.2	41.0	41.2	41.1	40.8	41.1	40.9	40.3	40.5	40.4	41.0	40.7	-0.6%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	1.8	1.5	1.1	1.3	0.9	1.1	1.5	1.3	1.5	2.2	2.5	3.3	4.1	N/A
Total Alternatives	1357.0	1519.8	1566.8	1483.3	1641.5	1636.7	1646.0	1716.9	1702.1	1704.5	1695.0	1723.6	1704.5	4.2%
Percent Alternative Car Sales	15.00	16.38	16.57	15.61	17.32	17.40	17.37	18.23	18.31	18.27	18.20	18.24	18.16	3.9%
Total New Car Sales	9043.7	9278.1	9458.0	9503.2	9477.1	9407.2	9475.3	9418.9	9295.1	9331.3	9310.6	9449.1	9386.0	0.2%
New Light Truck Sales 2/														
Conventional Vehicles														
Gasoline ICE Vehicles	6936.5	7079.0	7238.1	7317.5	7224.4	7182.9	7237.8	7167.7	7089.9	7117.4	7092.5	7182.4	7102.8	0.5%
TDI Diesel ICE	609.7	638.9	639.8	649.7	677.0	674.6	688.8	690.7	661.6	661.5	670.5	693.3	723.3	0.9%
Total Conventional	7546.3	7718.0	7877.9	7967.2	7901.4	7857.6	7926.6	7858.4	7751.5	7778.9	7763.0	7875.7	7826.1	0.5%
Alternative-Fuel Vehicles														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1%
Ethanol-Flex Fuel ICE	655.4	678.7	698.7	704.4	700.9	694.9	701.3	696.0	685.7	689.6	686.8	698.7	689.4	0.8%
Ethanol ICE	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.9	2.0	2.1	2.2	2.3	5.3%
Electric Vehicle	9.7	7.8	5.9	5.0	4.6	4.3	4.3	4.2	4.1	4.1	4.1	4.1	4.1	0.9%
Electric-Diesel Hybrid	14.9	19.6	20.4	19.5	25.9	26.4	27.1	31.3	29.2	29.2	29.4	31.7	32.6	14.7%
Electric-Gasoline Hybrid	452.9	510.4	530.9	503.5	560.8	558.4	561.8	588.2	586.2	589.4	587.2	594.3	589.5	11.7%
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-1.3%
Compressed Natural Gas Bi-fuel	35.0	36.0	36.8	37.1	37.0	36.8	37.2	37.0	36.5	36.6	36.6	37.1	36.9	0.8%
Liquefied Petroleum Gas ICE	2.1	2.3	2.5	2.7	2.8	3.1	3.2	3.3	3.4	3.6	3.6	3.7	3.9	7.1%
Liquefied Petroleum Gas Bi-fuel	115.9	119.3	122.0	122.9	122.8	122.1	123.2	122.6	121.0	121.5	121.2	123.0	122.2	0.8%
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.6	0.5	0.5	0.6	0.5	0.7	1.0	1.0	1.3	1.9	2.3	3.2	4.1	N/A
Total Alternatives	1287.7	1375.9	1419.1	1397.3	1457.0	1448.4	1460.9	1485.4	1469.4	1478.0	1473.4	1498.0	1485.1	2.9%
Percent Alternative Light Truck Sales	14.58	15.13	15.26	14.92	15.57	15.56	15.56	15.90	15.94	15.97	15.95	15.98	15.95	2.1%

**Table 45. Light-Duty Vehicle Sales by Technology Type
(Thousands)
United States**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001- 2025
Total New Truck Sales	8834.0	9093.8	9297.0	9364.5	9358.4	9306.0	9387.6	9343.8	9221.0	9256.8	9236.3	9373.7	9311.2	0.8%
Percent Total Alternative Sales	14.79	15.76	15.92	15.27	16.45	16.49	16.47	17.07	17.13	17.12	17.08	17.12	17.06	3.0%
EPACT Legislative Alternative Sales	279.61	287.62	293.86	295.83	295.50	293.73	296.21	294.75	290.87	292.00	291.36	295.69	293.72	0.4%
ZEVP Legislative Alternative Sales	1242.44	1317.18	1352.01	1356.20	1436.95	1435.01	1442.61	1521.49	1508.92	1511.06	1503.99	1530.14	1516.18	N/A
Total Vehicles Sales	17877.7	18372.0	18755.1	18867.7	18835.5	18713.2	18862.8	18762.7	18516.1	18588.1	18546.9	18822.8	18697.2	0.5%

**Table 45. Light-Duty Vehicle Sales by Technology Type
(Thousands)
United States**

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 46. Light-Duty Vehicle Stock by Technology Type
(Millions)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Light-Duty Car Stock 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	126.28	127.34	127.89	128.26	128.31	127.86	127.44	126.95	126.12	125.41	124.94	124.43	124.04
TDI Diesel ICE	0.58	0.53	0.48	0.44	0.41	0.38	0.36	0.34	0.32	0.31	0.31	0.30	0.30
Total Conventional	126.87	127.87	128.37	128.70	128.72	128.24	127.79	127.29	126.45	125.72	125.25	124.74	124.34
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	0.77	1.25	1.71	2.16	2.60	3.00	3.40	3.79	4.16	4.51	4.85	5.18	5.48
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
Natural Gas Technology													
Compressed Natural Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	0.02	0.03	0.04	0.05	0.07	0.08	0.09	0.09	0.10	0.11	0.12	0.13	0.13
Liquefied Petroleum Gas ICE	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Liquefied Petroleum Gas Bi-fuel	0.01	0.06	0.10	0.15	0.19	0.22	0.26	0.29	0.32	0.35	0.38	0.41	0.43
Electric Technology													
Electric Vehicle	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.05
Electric-Diesel Hybrid	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.04	0.07	0.10	0.14	0.18	0.22
Electric-Gasoline Hybrid	0.04	0.12	0.23	0.39	0.65	0.90	1.21	1.69	2.41	3.07	3.76	4.55	5.25
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Alternatives	0.85	1.49	2.12	2.80	3.55	4.26	5.02	5.95	7.11	8.20	9.30	10.50	11.58
Total Car Stock	127.72	129.36	130.48	131.50	132.27	132.49	132.81	133.23	133.56	133.92	134.55	135.24	135.93
Light-Duty Truck Stock 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	61.31	65.05	68.46	71.87	75.13	78.05	80.95	83.85	86.46	89.01	91.65	94.18	96.59
TDI Diesel ICE	1.33	1.85	2.33	2.86	3.40	3.93	4.46	4.93	5.41	5.87	6.32	6.73	7.12
Total Conventional	62.64	66.89	70.79	74.73	78.53	81.98	85.41	88.78	91.86	94.87	97.97	100.91	103.71
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol-Flex Fuel ICE	0.85	1.42	1.96	2.51	3.06	3.57	4.09	4.61	5.11	5.59	6.09	6.56	7.02
Ethanol ICE	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Natural Gas Technology													
Compressed Natural Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	0.06	0.09	0.11	0.14	0.17	0.20	0.23	0.25	0.28	0.31	0.33	0.36	0.38
Liquefied Petroleum Gas ICE	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02
Liquefied Petroleum Gas Bi-fuel	0.09	0.19	0.28	0.38	0.48	0.57	0.67	0.76	0.86	0.95	1.04	1.12	1.21
Electric Technology													
Electric Vehicle	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.07	0.08	0.10	0.11
Electric-Diesel Hybrid	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.05	0.06	0.08
Electric-Gasoline Hybrid	0.02	0.06	0.12	0.23	0.39	0.55	0.75	1.05	1.45	1.83	2.23	2.66	3.07
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Table 46. Light-Duty Vehicle Stock by Technology Type
(Millions)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Alternatives	1.03	1.77	2.50	3.29	4.13	4.94	5.80	6.75	7.80	8.81	9.85	10.90	11.90
Total Truck Stock	63.68	68.66	73.30	78.03	82.67	86.92	91.21	95.53	99.66	103.69	107.82	111.81	115.61
Total Vehicle Stock	191.40	198.02	203.78	209.53	214.94	219.41	224.02	228.77	233.22	237.60	242.37	247.05	251.53

**Table 46. Light-Duty Vehicle Stock by Technology Type
(Millions)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Light-Duty Car Stock 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	123.75	123.56	123.55	123.71	123.71	123.68	123.72	123.67	123.51	123.40	123.28	123.27	123.23	-0.1%
TDI Diesel ICE	0.30	0.30	0.30	0.30	0.30	0.31	0.31	0.32	0.32	0.33	0.33	0.34	0.35	-1.7%
Total Conventional	124.04	123.86	123.85	124.01	124.01	123.98	124.04	123.98	123.83	123.72	123.61	123.61	123.57	-0.1%
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10.5%
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.2%
Ethanol-Flex Fuel ICE	5.76	6.03	6.28	6.52	6.73	6.91	7.08	7.22	7.33	7.43	7.52	7.60	7.67	7.8%
Ethanol ICE	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	9.5%
Natural Gas Technology														
Compressed Natural Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2%
Compressed Natural Gas Bi-fuel	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	7.6%
Liquefied Petroleum Gas ICE	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	6.0%
Liquefied Petroleum Gas Bi-fuel	0.45	0.47	0.49	0.51	0.53	0.54	0.55	0.56	0.57	0.57	0.58	0.59	0.59	10.1%
Electric Technology														
Electric Vehicle	0.06	0.08	0.11	0.14	0.18	0.22	0.26	0.32	0.37	0.42	0.47	0.51	0.55	20.4%
Electric-Diesel Hybrid	0.26	0.31	0.36	0.41	0.47	0.53	0.59	0.66	0.72	0.77	0.83	0.89	0.94	24.9%
Electric-Gasoline Hybrid	5.94	6.73	7.52	8.19	8.94	9.66	10.33	11.00	11.63	12.21	12.74	13.23	13.66	21.9%
Fuel Cell Technology														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	N/A
Total Alternatives	12.64	13.81	14.96	15.96	17.05	18.06	19.02	19.97	20.84	21.65	22.37	23.06	23.66	12.2%
Total Car Stock	136.69	137.66	138.80	139.96	141.06	142.05	143.05	143.96	144.68	145.37	145.98	146.67	147.24	0.5%
Light-Duty Truck Stock 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	98.92	101.22	103.52	105.74	107.71	109.49	111.18	112.66	113.93	115.10	116.13	117.15	117.99	2.5%
TDI Diesel ICE	7.49	7.87	8.22	8.56	8.89	9.20	9.49	9.76	9.98	10.18	10.36	10.55	10.75	7.6%
Total Conventional	106.41	109.10	111.75	114.30	116.61	118.69	120.67	122.42	123.91	125.28	126.49	127.70	128.74	2.8%
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-7.2%
Methanol ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.8%
Ethanol-Flex Fuel ICE	7.45	7.88	8.30	8.70	9.06	9.39	9.70	9.98	10.21	10.43	10.62	10.81	10.97	8.9%
Ethanol ICE	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	9.7%
Natural Gas Technology														
Compressed Natural Gas ICE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.8%
Compressed Natural Gas Bi-fuel	0.40	0.43	0.45	0.47	0.49	0.50	0.52	0.53	0.54	0.55	0.56	0.57	0.58	8.3%
Liquefied Petroleum Gas ICE	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	6.6%
Liquefied Petroleum Gas Bi-fuel	1.29	1.36	1.44	1.51	1.57	1.63	1.69	1.74	1.78	1.82	1.85	1.89	1.91	10.2%
Electric Technology														
Electric Vehicle	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.11	0.11	13.2%
Electric-Diesel Hybrid	0.09	0.11	0.13	0.15	0.17	0.19	0.21	0.24	0.26	0.29	0.31	0.33	0.35	22.7%
Electric-Gasoline Hybrid	3.48	3.92	4.37	4.78	5.22	5.63	6.03	6.43	6.81	7.16	7.48	7.79	8.07	22.3%
Fuel Cell Technology														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A

**Table 46. Light-Duty Vehicle Stock by Technology Type
(Millions)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001- 2025
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	N/A
Total Alternatives	12.87	13.87	14.86	15.77	16.69	17.53	18.33	19.10	19.79	20.44	21.02	21.58	22.08	11.1%
Total Truck Stock	119.28	122.96	126.61	130.07	133.29	136.22	139.01	141.53	143.70	145.71	147.52	149.28	150.81	3.3%
Total Vehicle Stock	255.97	260.63	265.41	270.04	274.35	278.27	282.06	285.48	288.38	291.08	293.50	295.95	298.05	1.7%

**Table 46. Light-Duty Vehicle Stock by Technology Type
(Millions)**

1/ Includes personal and fleet vehicles.

ICE = Internal combustion engine.

N/A = Not applicable.

Sources: 2001 derived using: Energy Information Administration (EIA), Household Vehicles Energy Consumption 1994, DOE/EIA-0464(94) (Washington, DC, August 1997); EIA, Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; Federal Highway Administration, Highway Statistics 2000 (Washington, DC, November 2001); Oak Ridge National Laboratory, Transportation Energy Data Book: 21 (Oak Ridge, TN, September 2001); and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type
(Miles per Gallon Gasoline Equivalent)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Automobiles 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	28.14	28.02	27.96	28.14	28.13	28.00	27.91	27.76	27.52	27.62	27.78	27.87	28.02
TDI Diesel ICE	37.95	37.73	37.54	37.82	37.71	37.49	37.22	36.84	36.46	36.50	36.54	36.51	36.57
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	26.99	26.92	26.84	26.86	26.88	27.89	27.79	27.62	27.37	27.47	27.63	27.71	27.87
Methanol ICE	28.78	28.64	28.54	28.67	28.67	28.50	28.34	28.14	27.87	27.94	28.10	28.19	28.33
Ethanol-Flex Fuel ICE	27.94	27.82	27.75	27.97	27.93	27.78	27.70	27.54	27.29	27.41	27.58	27.66	27.82
Ethanol ICE	27.71	27.59	27.53	27.65	27.67	27.54	27.44	27.27	27.03	27.14	27.32	27.42	27.58
Natural Gas Technology													
Compressed Natural Gas ICE	28.41	28.31	28.22	28.30	28.34	28.19	28.05	27.87	27.61	27.66	27.77	27.83	27.93
Compressed Natural Gas Bi-fuel	27.10	26.97	26.89	26.96	27.03	26.93	26.83	26.68	26.44	26.52	26.65	26.73	26.84
Liquefied Petroleum Gas ICE	27.85	27.70	27.63	27.75	27.74	27.61	27.49	27.34	27.13	27.27	27.46	27.58	27.76
Liquefied Petroleum Gas Bi-fuel	27.14	26.99	26.91	26.96	27.02	26.90	26.79	26.65	26.42	26.51	26.65	26.74	26.87
Electric Technology													
Electric Vehicle	32.35	34.10	34.44	35.19	38.73	42.11	46.40	52.39	51.33	50.99	50.54	49.99	49.68
Electric-Diesel Hybrid	43.36	43.44	43.29	43.43	43.32	42.98	42.13	41.38	40.88	40.86	40.82	40.75	40.74
Electric-Gasoline Hybrid	39.66	39.24	39.15	39.63	39.72	39.49	39.40	39.16	38.86	38.85	38.83	38.78	38.78
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	44.48	43.88	43.28	42.68	42.64	42.62	42.57	42.54
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	47.43	46.78	46.14	45.50	45.45	45.42	45.38	45.33
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	51.72	51.01	50.30	49.59	49.53	49.48	49.41	49.35
Average New Car Miles per Gallon	28.18	28.09	28.06	28.30	28.37	28.26	28.22	28.23	28.26	28.30	28.47	28.66	28.74
Light-Duty Trucks 1/													
Conventional Vehicles													
Gasoline ICE Vehicles	20.36	20.31	20.28	20.30	20.31	20.35	20.26	20.21	20.05	20.19	20.40	20.52	20.71
TDI Diesel ICE	26.61	26.66	26.52	26.55	26.53	26.54	26.17	25.98	25.73	25.77	25.89	25.94	26.03
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	19.34	19.30	20.55	20.58	20.58	20.63	20.53	20.50	20.35	20.50	20.74	20.88	21.08
Methanol ICE	23.00	22.90	22.88	22.93	22.85	22.87	22.73	22.67	22.48	22.61	22.84	22.96	23.15
Ethanol-Flex Fuel ICE	20.13	20.35	20.32	20.36	20.35	20.40	20.30	20.27	20.13	20.27	20.50	20.63	20.83
Ethanol ICE	22.22	22.14	22.14	22.22	22.20	22.24	22.11	22.07	21.90	22.05	22.28	22.44	22.61
Natural Gas Technology													
Compressed Natural Gas ICE	23.73	23.64	23.55	23.62	23.57	23.61	23.39	23.26	23.08	23.15	23.27	23.32	23.45
Compressed Natural Gas Bi-fuel	19.42	19.37	19.32	19.34	19.37	19.42	19.35	19.31	19.17	19.27	19.42	19.52	19.66
Liquefied Petroleum Gas ICE	20.53	20.42	20.35	20.45	20.32	20.34	20.15	20.13	20.00	20.16	20.36	20.49	20.67
Liquefied Petroleum Gas Bi-fuel	19.12	19.08	19.04	19.05	19.06	19.11	19.05	19.00	18.86	18.97	19.15	19.26	19.45
Electric Technology													
Electric Vehicle	23.69	24.97	25.20	25.74	28.31	30.53	33.40	37.57	36.97	36.82	36.82	36.71	36.79
Electric-Diesel Hybrid	33.57	32.80	32.37	32.15	31.92	31.88	31.37	31.68	31.83	31.82	31.83	31.82	31.85

**Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type
(Miles per Gallon Gasoline Equivalent)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Electric-Gasoline Hybrid	30.57	30.63	30.45	30.53	30.43	30.39	29.87	29.63	29.09	29.08	29.10	29.08	29.10
Fuel Cell Technology													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	38.51	37.59	37.09	36.57	36.52	36.49	36.44	36.40
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	41.10	40.12	39.58	39.02	38.97	38.94	38.89	38.84
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	45.01	43.93	43.34	42.72	42.66	42.62	42.55	42.50
Average New Truck Miles per Gallon	20.58	20.71	20.68	20.76	20.82	20.88	20.80	20.78	20.72	20.83	21.03	21.17	21.34
Fleet Average Stock Car Miles per Gallon 2/	21.99	21.79	21.81	21.83	21.88	21.91	21.93	21.96	21.99	22.03	22.09	22.16	22.23
Fleet Average Stock Truck Miles per Gallon 2/	17.14	16.92	16.86	16.82	16.80	16.78	16.76	16.73	16.71	16.69	16.70	16.71	16.73
Fleet Average Stock Vehicle Miles per Gallon 2/	20.09	19.81	19.73	19.65	19.60	19.54	19.48	19.43	19.37	19.33	19.31	19.31	19.32

**Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type
(Miles per Gallon Gasoline Equivalent)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Automobiles 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	28.19	28.33	28.43	28.51	28.62	28.66	28.71	28.77	28.87	28.94	29.01	29.05	29.10	0.2%
TDI Diesel ICE	36.64	36.72	36.73	36.79	36.89	36.91	36.93	36.97	37.04	37.14	37.24	37.32	37.47	0.0%
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	28.04	28.18	28.28	28.38	28.48	28.53	28.58	28.64	28.73	28.81	28.88	28.93	28.98	0.3%
Methanol ICE	28.48	28.60	28.71	28.81	28.91	28.98	29.04	29.11	29.21	29.29	29.36	29.42	29.46	0.1%
Ethanol-Flex Fuel ICE	27.99	28.14	28.25	28.35	28.45	28.49	28.54	28.59	28.68	28.76	28.83	28.88	28.94	0.2%
Ethanol ICE	27.75	27.89	28.01	28.12	28.23	28.30	28.36	28.43	28.53	28.61	28.69	28.74	28.80	0.2%
Natural Gas Technology														
Compressed Natural Gas ICE	28.05	28.13	28.19	28.26	28.32	28.35	28.37	28.42	28.49	28.54	28.59	28.61	28.63	0.0%
Compressed Natural Gas Bi-fuel	26.97	27.06	27.12	27.17	27.22	27.24	27.24	27.27	27.34	27.39	27.43	27.45	27.46	0.1%
Liquefied Petroleum Gas ICE	27.97	28.15	28.31	28.44	28.57	28.68	28.76	28.83	28.96	29.05	29.12	29.16	29.22	0.2%
Liquefied Petroleum Gas Bi-fuel	27.03	27.14	27.22	27.30	27.37	27.42	27.45	27.50	27.59	27.65	27.71	27.74	27.76	0.1%
Electric Technology														
Electric Vehicle	49.56	49.44	49.38	49.34	49.26	49.22	49.19	49.13	49.15	49.18	49.21	49.23	49.25	1.5%
Electric-Diesel Hybrid	40.71	40.73	40.68	40.66	40.72	40.68	40.65	40.65	40.65	40.66	40.69	40.70	40.75	-0.3%
Electric-Gasoline Hybrid	38.77	38.77	38.75	38.75	38.77	38.74	38.71	38.71	38.74	38.77	38.80	38.79	38.83	0.0%
Fuel Cell Technology														
Fuel Cell Gasoline	42.50	42.45	42.40	42.35	42.29	42.22	42.15	42.09	42.08	42.08	42.09	42.09	42.10	N/A
Fuel Cell Methanol	45.29	45.23	45.18	45.11	45.04	44.96	44.89	44.81	44.80	44.80	44.80	44.80	44.80	N/A
Fuel Cell Hydrogen	49.28	49.20	49.11	49.02	48.92	48.81	48.70	48.60	48.58	48.58	48.58	48.57	48.58	N/A
Average New Car Miles per Gallon	28.92	29.17	29.27	29.28	29.52	29.57	29.61	29.75	29.85	29.92	29.98	30.02	30.07	0.3%
Light-Duty Trucks 1/														
Conventional Vehicles														
Gasoline ICE Vehicles	20.91	21.06	21.19	21.34	21.47	21.58	21.68	21.79	21.94	22.05	22.15	22.23	22.30	0.4%
TDI Diesel ICE	26.13	26.20	26.27	26.35	26.42	26.46	26.51	26.57	26.67	26.75	26.83	26.88	26.92	0.0%
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	21.29	21.45	21.60	21.75	21.89	22.01	22.11	22.23	22.39	22.50	22.61	22.69	22.77	0.7%
Methanol ICE	23.33	23.46	23.57	23.70	23.81	23.91	23.99	24.10	24.24	24.34	24.45	24.53	24.60	0.3%
Ethanol-Flex Fuel ICE	21.04	21.19	21.33	21.48	21.62	21.74	21.84	21.96	22.11	22.22	22.33	22.41	22.49	0.4%
Ethanol ICE	22.80	22.93	23.05	23.18	23.29	23.40	23.49	23.60	23.76	23.87	23.98	24.07	24.14	0.4%
Natural Gas Technology														
Compressed Natural Gas ICE	23.58	23.66	23.73	23.82	23.92	23.98	24.03	24.11	24.24	24.33	24.42	24.48	24.54	0.2%
Compressed Natural Gas Bi-fuel	19.83	19.92	20.02	20.11	20.21	20.28	20.32	20.40	20.51	20.58	20.65	20.70	20.75	0.3%
Liquefied Petroleum Gas ICE	20.89	21.03	21.14	21.27	21.37	21.45	21.52	21.61	21.74	21.82	21.90	21.95	22.00	0.3%
Liquefied Petroleum Gas Bi-fuel	19.65	19.78	19.91	20.04	20.16	20.26	20.33	20.42	20.56	20.65	20.73	20.80	20.86	0.4%
Electric Technology														
Electric Vehicle	37.00	37.20	37.53	37.75	37.85	37.91	37.86	37.88	37.91	37.93	37.96	37.98	38.00	1.8%
Electric-Diesel Hybrid	31.88	31.92	31.94	31.97	32.04	32.05	32.07	32.13	32.21	32.28	32.35	32.41	32.48	0.0%

**Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type
(Miles per Gallon Gasoline Equivalent)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Electric-Gasoline Hybrid Fuel Cell Technology	29.14	29.17	29.18	29.21	29.25	29.26	29.28	29.32	29.41	29.49	29.56	29.61	29.67	-0.1%
Fuel Cell Gasoline	36.35	36.30	36.25	36.18	36.11	36.05	35.98	35.91	35.91	35.91	35.92	35.93	35.94	N/A
Fuel Cell Methanol	38.79	38.74	38.68	38.62	38.55	38.48	38.41	38.35	38.36	38.38	38.40	38.42	38.44	N/A
Fuel Cell Hydrogen	42.44	42.37	42.30	42.22	42.15	42.07	42.00	41.93	41.96	41.99	42.04	42.07	42.11	N/A
Average New Truck Miles per Gallon	21.53	21.71	21.84	21.96	22.14	22.24	22.34	22.47	22.61	22.71	22.82	22.90	22.99	0.4%
Fleet Average Stock Car Miles per Gallon 2/	22.33	22.44	22.57	22.69	22.83	22.98	23.12	23.28	23.34	23.40	23.46	23.53	23.59	0.3%
Fleet Average Stock Truck Miles per Gallon 2/	16.77	16.82	16.88	16.94	17.01	17.08	17.15	17.22	17.31	17.40	17.49	17.57	17.66	0.2%
Fleet Average Stock Vehicle Miles per Gallon 2/	19.34	19.39	19.44	19.50	19.57	19.65	19.73	19.82	19.89	19.95	20.02	20.09	20.16	0.1%

**Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type
(Miles per Gallon Gasoline Equivalent)**

1/ Fuel efficiencies are EPA rated. Includes personal and fleet vehicles.

2/ Stock values are on-road efficiencies. Includes personal vehicles, fleet vehicles, and freight light trucks.

ICE = Internal combustion engine.

Sources: 2001 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); National Highway Traffic and Safety Administration, Mid-Model Year Fuel Economy Reports from Auto Manufacturers, 2000; Federal Highway Administration, Highway Statistics 2000 (Washington, DC, November 2001); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 48. Light-Duty Vehicle Miles Traveled by Technology Type
(Billion Miles, Unless Otherwise Noted)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Conventional Vehicles 1/ Gasoline ICE Vehicles	2308.3	2338.2	2399.7	2416.9	2436.0	2470.5	2510.7	2552.4	2592.8	2634.1	2679.9	2721.5	2764.6
TDI Diesel ICE	22.6	27.7	33.0	38.3	43.9	50.0	56.1	61.8	67.8	73.8	79.7	85.1	90.4
Alternative-Fuel Vehicles													
Alcohol Fuel Technology													
Methanol-Flex Fuel ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethanol-Flex Fuel ICE	19.5	32.8	46.1	58.7	71.1	82.8	94.0	105.1	116.1	126.9	137.9	148.5	158.6
Ethanol ICE	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Natural Gas Technology													
Compressed Natural Gas ICE	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Compressed Natural Gas Bi-fuel	1.4	2.2	2.9	3.6	4.4	5.0	5.5	5.9	6.4	6.8	7.2	7.6	8.0
Liquefied Petroleum Gas ICE	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
Liquefied Petroleum Gas Bi-fuel	2.0	4.8	7.5	10.3	13.0	15.5	17.2	18.7	20.2	21.7	23.2	24.7	26.1
Electric Technology													
Electric Vehicle	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.1	1.4	1.6	1.9	2.2
Electric-Diesel Hybrid	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.2	1.7	2.3	2.9	3.6
Electric-Gasoline Hybrid	0.7	2.1	4.1	7.2	11.9	16.8	22.9	32.1	45.6	58.5	72.0	87.3	101.5
Fuel Cell Technology													
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
VMT Equation Components													
Total VMT (billion miles)	2355.1	2408.5	2494.3	2536.1	2581.6	2642.0	2708.2	2778.2	2851.8	2925.4	3004.4	3080.3	3155.9
VMT per Driving Population (thousand miles)	11.4	11.5	11.7	11.8	11.8	12.0	12.1	12.3	12.4	12.6	12.8	13.0	13.1
Driving Population (million)	213.1	215.4	217.8	220.1	222.4	224.8	227.3	229.7	232.1	234.4	236.6	238.7	240.7
Price Effects													
Motor Gasoline Price (1987 \$ per million Btu)	8.81	8.20	7.77	8.21	8.07	8.00	8.07	8.09	8.10	8.16	8.17	8.10	8.08
Fleet Miles per Gallon	20.23	19.92	19.81	19.72	19.66	19.59	19.53	19.47	19.43	19.39	19.38	19.38	19.39
Real Cost of Driving per Mile (1987 cents)	7.019	6.640	6.322	6.713	6.619	6.588	6.666	6.695	6.720	6.782	6.801	6.737	6.716
Point Price Elasticity	-0.046	-0.043	-0.040	-0.043	-0.042	-0.041	-0.041	-0.041	-0.041	-0.040	-0.040	-0.039	-0.038
Income Effects													
Disposable Income (billion 1987 dollars)	5737.2	5839.1	6097.6	6196.2	6272.3	6421.2	6598.7	6791.0	7003.7	7225.1	7473.7	7705.6	7944.7
Point Income Elasticity	0.501	0.501	0.507	0.509	0.508	0.510	0.514	0.518	0.523	0.528	0.533	0.538	0.543
Demographic Driving Population Effect													
Percentage Female Driving Population	0.601	0.610	0.617	0.624	0.630	0.636	0.641	0.646	0.650	0.654	0.658	0.661	0.664
Point Demographic Elasticity	0.339	0.341	0.337	0.340	0.342	0.341	0.340	0.338	0.336	0.334	0.330	0.327	0.324

**Table 48. Light-Duty Vehicle Miles Traveled by Technology Type
(Billion Miles, Unless Otherwise Noted)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Conventional Vehicles 1/														
Gasoline ICE Vehicles	2809.9	2850.3	2890.4	2932.3	2972.3	3016.3	3065.3	3107.2	3145.6	3188.5	3238.5	3294.0	3346.5	1.5%
TDI Diesel ICE	95.7	100.9	105.6	110.3	115.1	119.9	124.8	129.4	133.3	137.3	141.6	146.1	151.0	7.3%
Alternative-Fuel Vehicles														
Alcohol Fuel Technology														
Methanol-Flex Fuel ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-11.5%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2%
Ethanol-Flex Fuel ICE	168.6	178.1	187.3	195.9	204.1	212.1	220.0	227.0	233.3	239.6	246.1	252.8	259.0	9.0%
Ethanol ICE	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	10.3%
Natural Gas Technology														
Compressed Natural Gas ICE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.5%
Compressed Natural Gas Bi-fuel	8.4	8.8	9.2	9.5	9.9	10.2	10.5	10.7	11.0	11.2	11.4	11.6	11.9	7.3%
Liquefied Petroleum Gas ICE	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.0	7.0%
Liquefied Petroleum Gas Bi-fuel	27.5	28.9	30.2	31.5	32.6	33.7	34.8	35.7	36.5	37.2	38.0	38.8	39.6	9.2%
Electric Technology														
Electric Vehicle	2.5	2.8	3.2	3.6	4.1	4.7	5.2	5.9	6.6	7.3	8.0	8.6	9.2	16.5%
Electric-Diesel Hybrid	4.3	5.2	6.1	6.9	8.0	9.1	10.2	11.5	12.7	13.9	15.0	16.3	17.6	25.0%
Electric-Gasoline Hybrid	115.7	131.6	147.4	161.4	177.2	192.8	208.3	223.8	238.6	253.2	267.7	282.1	295.5	22.9%
Fuel Cell Technology														
Fuel Cell Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Methanol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.6	N/A
VMT Equation Components														
Total VMT (billion miles)	3233.6	3307.5	3380.4	3452.3	3524.4	3600.0	3680.4	3752.7	3819.2	3889.9	3968.1	4052.5	4132.5	2.3%
VMT per Driving Population (thousand miles)	13.3	13.5	13.7	13.9	14.1	14.3	14.5	14.6	14.8	14.9	15.1	15.3	15.5	1.3%
Driving Population (million)	242.7	244.7	246.7	248.7	250.6	252.6	254.5	256.5	258.5	260.4	262.5	264.5	266.6	0.9%
Price Effects														
Motor Gasoline Price (1987 \$ per million Btu)	8.03	8.05	8.04	8.07	8.18	8.21	8.22	8.23	8.21	8.24	8.32	8.37	8.57	0.2%
Fleet Miles per Gallon	19.42	19.47	19.53	19.59	19.67	19.75	19.84	19.93	20.01	20.08	20.15	20.23	20.30	0.1%
Real Cost of Driving per Mile (1987 cents)	6.669	6.666	6.636	6.638	6.706	6.704	6.683	6.654	6.620	6.619	6.657	6.674	6.802	0.1%
Point Price Elasticity	-0.038	-0.037	-0.036	-0.036	-0.036	-0.035	-0.035	-0.034	-0.034	-0.033	-0.033	-0.033	-0.033	-1.1%
Income Effects														
Disposable Income (billion 1987 dollars)	8192.1	8461.4	8727.9	8994.4	9269.1	9555.7	9864.0	10135.4	10386.5	10658.9	10968.7	11302.0	11625.5	2.9%
Point Income Elasticity	0.548	0.553	0.558	0.563	0.568	0.573	0.579	0.583	0.587	0.592	0.597	0.602	0.607	0.8%
Demographic Driving Population Effect														
Percentage Female Driving Population	0.666	0.668	0.670	0.672	0.674	0.675	0.676	0.677	0.677	0.677	0.677	0.677	0.677	0.4%
Point Demographic Elasticity	0.321	0.317	0.314	0.311	0.308	0.304	0.300	0.297	0.294	0.291	0.288	0.284	0.280	-0.8%

**Table 48. Light-Duty Vehicle Miles Traveled by Technology Type
(Billion Miles, Unless Otherwise Noted)**

1/ Includes personal and fleet vehicles. Includes both cars and light trucks.

VMT = Vehicle miles traveled.

ICE = Internal combustion engine.

N/A = Not applicable.

Sources: 2001 derived using: Federal Highway Administration, Highway Statistics 2000 (Washington, DC, November 2001); Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 22 and Annual (Oak Ridge, TN, September 2002); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and Energy Information Administration (EIA), AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Personal Vehicles													
EPA Rated New Vehicle Fuel Efficiency													
Conventional Cars (miles per gallon)													
Minicompact	24.500	24.449	24.687	24.800	24.895	24.818	25.043	25.044	24.861	25.069	25.397	25.543	25.717
Subcompact	31.037	30.989	30.889	30.931	30.976	30.800	30.632	30.443	30.176	30.274	30.428	30.504	30.657
Compact	30.276	30.206	30.131	30.196	30.297	30.192	30.093	29.968	29.718	29.823	29.983	30.083	30.249
Midsized	26.726	26.665	26.598	26.663	26.734	26.627	26.553	26.423	26.199	26.306	26.478	26.565	26.687
Large	25.264	25.197	25.108	25.108	25.100	24.924	24.769	24.587	24.351	24.431	24.573	24.673	24.820
Two Seater	24.873	24.893	24.952	24.960	25.000	24.868	24.755	24.631	24.423	24.548	24.760	24.872	25.041
Average New Car	28.124	27.984	27.928	28.136	28.105	27.982	27.892	27.739	27.502	27.610	27.765	27.849	28.005
Average New Car On-Road Miles per Gallon	20.942	20.729	20.777	21.019	21.094	21.091	21.113	21.085	20.993	21.163	21.372	21.527	21.737
Conventional Light Trucks													
Small Pickup	22.293	22.231	22.208	22.248	22.297	22.387	22.346	22.321	22.156	22.305	22.518	22.635	22.826
Large Pickup	18.883	18.851	18.818	18.823	18.824	18.853	18.803	18.752	18.612	18.726	18.900	19.032	19.209
Small Van	23.257	23.165	23.073	23.091	23.104	23.112	22.894	22.782	22.571	22.664	22.838	22.921	23.071
Large Van	18.100	18.066	18.027	18.028	18.037	18.087	18.055	18.043	17.912	18.054	18.258	18.406	18.628
Small Utility	21.187	21.123	21.110	21.146	21.185	21.244	21.206	21.197	21.039	21.204	21.459	21.580	21.780
Large Utility	17.510	17.497	17.472	17.482	17.489	17.531	17.452	17.424	17.305	17.423	17.654	17.802	18.006
Average New Light Truck	20.463	20.423	20.390	20.416	20.423	20.469	20.376	20.329	20.167	20.304	20.516	20.633	20.826
Average New Light Truck On-Road MPG	16.627	16.422	16.383	16.388	16.387	16.410	16.322	16.270	16.128	16.223	16.381	16.461	16.601
Degradation Factors 1/													
Cars	0.745	0.741	0.744	0.747	0.751	0.754	0.757	0.760	0.763	0.767	0.770	0.773	0.776
Light Trucks	0.813	0.804	0.803	0.803	0.802	0.802	0.801	0.800	0.800	0.799	0.798	0.798	0.797
New Fuel Efficiency by Size Class 2/													
Alternative-Fuel Cars													
Minicompact	26.32	26.79	27.62	28.60	29.76	29.93	30.53	31.27	31.93	32.19	32.89	33.21	33.39
Subcompact	33.427	32.751	33.126	34.161	35.684	35.660	36.382	38.280	39.751	39.540	39.561	39.896	39.720
Compact	32.516	31.520	31.994	32.956	34.405	34.437	35.209	36.329	37.251	37.031	37.091	37.527	37.342
Midsized	29.277	28.725	29.153	29.920	30.932	30.833	30.887	31.467	32.330	32.151	32.281	32.687	32.531
Large	27.365	26.779	27.162	27.856	28.720	28.611	28.966	30.050	30.781	30.596	30.647	31.014	30.891
Two Seater	26.643	27.097	27.701	28.463	29.384	30.161	31.316	32.162	33.116	33.756	34.995	38.038	40.983
Average New Alternative Cars	29.841	29.236	29.668	30.686	31.713	31.652	32.091	33.076	34.098	33.926	34.026	34.448	34.341
Alternative-Fuel Light Trucks													
Small Pickup	22.517	22.453	22.427	22.465	22.508	22.582	22.531	22.498	22.328	22.490	22.708	22.835	23.032
Large Pickup	19.072	19.037	19.008	19.011	19.011	19.039	18.982	18.932	18.797	18.915	19.095	19.232	19.414
Small Van	25.203	24.439	24.836	25.594	26.670	26.858	27.121	28.091	28.464	28.439	28.447	28.688	28.569
Large Van	18.300	18.261	18.226	18.226	18.234	18.282	18.243	18.232	18.112	18.251	18.458	18.610	18.835
Small Utility	22.441	22.016	22.257	22.712	23.333	23.415	23.634	23.909	24.269	24.305	24.540	24.805	24.884
Large Utility	18.204	17.951	18.065	18.336	18.765	18.847	18.906	19.337	19.901	19.928	20.119	20.377	20.486
Average New Alternative Light Trucks	21.310	21.082	21.309	21.788	22.364	22.502	22.692	23.208	23.638	23.672	23.827	24.099	24.135
Fleet Vehicles													
EPA Rated New Vehicle Fuel Efficiency													
Cars	28.203	28.144	28.066	28.118	28.181	28.052	27.945	27.797	27.556	27.657	27.819	27.909	28.050
Light Trucks	19.551	19.519	19.478	19.490	19.505	19.548	19.465	19.422	19.274	19.393	19.592	19.721	19.910
Average On-Road Miles per Gallon													
Cars	20.850	20.768	20.834	20.932	21.063	21.160	21.225	21.253	21.227	21.242	21.307	21.417	21.596
Light Trucks	15.842	15.726	15.714	15.674	15.641	15.628	15.605	15.581	15.533	15.502	15.503	15.533	15.599

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
New Vehicle Sales Shares (percent)													
Conventional Cars													
Minicompact	0.381	0.356	0.358	0.399	0.375	0.379	0.385	0.381	0.381	0.381	0.379	0.376	0.378
Subcompact	14.539	13.639	13.656	15.149	14.310	14.296	14.459	14.391	14.382	14.482	14.413	14.306	14.394
Compact	33.529	32.214	32.586	34.554	33.196	33.386	33.722	33.595	33.602	33.723	33.639	33.414	33.550
Midsize	34.761	35.900	35.567	33.834	35.038	34.897	34.618	34.716	34.710	34.588	34.663	34.856	34.739
Large	15.097	16.176	16.120	14.385	15.380	15.334	15.112	15.215	15.224	15.131	15.209	15.349	15.241
Two Seater	1.694	1.715	1.713	1.679	1.701	1.707	1.705	1.702	1.701	1.695	1.697	1.699	1.697
Conventional Light Trucks													
Small Pickup	12.508	13.088	12.881	12.020	12.626	12.513	11.994	12.328	12.351	12.376	12.410	12.524	12.452
Large Pickup	21.795	21.670	21.418	21.725	21.755	21.642	21.411	21.548	21.543	21.580	21.557	21.592	21.595
Small Van	17.759	16.918	17.164	18.462	17.544	17.683	17.514	17.704	17.720	17.877	17.808	17.668	17.747
Large Van	2.523	2.505	2.470	2.514	2.515	2.498	2.387	2.462	2.468	2.486	2.481	2.489	2.486
Small Utility	31.709	32.057	32.186	31.548	31.826	31.876	32.556	32.063	32.035	31.866	31.916	31.920	31.908
Large Utility	13.706	13.762	13.880	13.732	13.735	13.788	14.138	13.895	13.883	13.814	13.828	13.807	13.813
New Vehicle Average Horsepower													
Conventional Cars													
Minicompact	241.000	243.527	250.060	250.919	252.217	256.366	262.283	267.315	272.352	274.267	276.461	278.160	279.766
Subcompact	145.508	148.890	154.022	154.062	155.418	158.314	161.430	165.217	169.103	171.039	173.173	174.962	176.675
Compact	137.154	140.189	145.412	145.611	147.527	151.025	154.643	158.965	162.928	164.979	167.178	169.170	170.967
Midsize	177.370	180.668	186.889	187.294	189.405	193.802	198.351	203.307	208.289	210.960	213.945	216.359	218.539
Large	220.713	222.928	226.863	226.819	227.650	231.230	235.266	239.687	244.263	246.083	248.149	250.093	251.973
Two Seater	264.779	267.296	271.190	271.395	272.902	277.513	282.832	288.385	293.617	295.415	297.374	298.894	299.981
Average New Car	167.520	171.840	176.999	175.208	178.177	181.853	185.538	190.156	194.583	196.660	199.192	201.481	203.262
Conventional Light Trucks													
Small Pickup	161.743	164.852	170.543	170.880	172.742	176.155	182.452	187.876	192.267	195.163	197.978	199.867	202.044
Large Pickup	220.453	226.217	233.794	233.834	235.521	238.773	246.999	253.316	258.863	261.592	264.807	267.293	269.784
Small Van	180.807	184.109	190.253	190.334	191.911	194.389	200.435	205.714	210.440	213.099	216.353	218.560	220.898
Large Van	220.000	224.312	231.163	231.215	232.957	236.214	244.442	250.698	256.019	258.882	262.188	264.819	267.497
Small Utility	182.121	186.387	193.057	193.415	195.244	197.932	204.966	210.163	214.561	216.763	219.072	220.577	221.707
Large Utility	241.700	246.550	254.433	254.505	256.131	259.014	267.139	273.094	278.895	281.750	284.946	287.458	289.777
Average New Light Truck	196.815	201.044	207.861	208.258	209.892	212.798	220.204	225.668	230.576	233.134	236.008	238.049	240.038
New Vehicle Average Weight													
Conventional Cars													
Minicompact	3488.000	3492.229	3490.119	3492.739	3494.864	3535.087	3578.906	3624.903	3673.611	3673.237	3670.498	3671.270	3671.182
Subcompact	2775.394	2779.752	2783.444	2786.667	2789.982	2823.453	2862.754	2903.039	2944.671	2946.560	2947.376	2949.102	2950.117
Compact	2831.433	2835.640	2839.544	2842.929	2846.926	2881.908	2922.580	2964.210	3006.659	3008.519	3009.068	3010.912	3012.010
Midsize	3310.185	3314.365	3318.244	3322.154	3326.227	3366.612	3412.533	3459.284	3507.673	3509.986	3511.051	3513.619	3515.470
Large	3681.988	3686.566	3691.065	3695.462	3699.629	3744.252	3795.279	3847.319	3900.474	3903.801	3906.237	3909.252	3911.877
Two Seater	3007.075	3011.331	3014.824	3017.784	3021.142	3057.483	3099.195	3141.897	3186.227	3188.058	3188.286	3190.622	3192.148
Average New Car	3123.583	3142.879	3144.741	3124.712	3143.252	3180.408	3220.960	3267.186	3313.313	3314.035	3316.182	3320.711	3320.698
Conventional Light Trucks													
Small Pickup	3639.872	3646.764	3652.888	3659.711	3666.533	3673.348	3765.968	3820.155	3875.645	3882.031	3887.131	3892.700	3897.938
Large Pickup	4707.611	4716.477	4724.342	4733.213	4741.925	4750.408	4868.926	4937.081	5006.684	5015.047	5022.617	5030.831	5038.662
Small Van	4065.081	4072.712	4079.700	4086.845	4093.716	4100.047	4201.472	4259.573	4320.087	4325.859	4330.471	4336.536	4341.824
Large Van	4748.000	4756.688	4764.321	4772.945	4780.930	4787.769	4902.907	4967.774	5036.605	5042.423	5045.487	5051.193	5055.346
Small Utility	3861.135	3868.523	3874.687	3881.245	3887.593	3893.134	3987.880	4042.172	4100.053	4105.107	4108.396	4113.861	4118.482
Large Utility	5152.408	5161.592	5169.825	5178.843	5187.095	5193.917	5318.005	5387.320	5461.468	5467.348	5470.580	5476.979	5481.636
Average New Light Truck	4253.521	4257.999	4265.030	4278.269	4282.656	4289.450	4397.206	4455.816	4518.758	4524.821	4529.175	4535.024	4540.945
Average Weight for the Stock													

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Conventional Cars	3132	3130	3128	3127	3128	3131	3136	3144	3154	3165	3176	3189	3201
Conventional Light Trucks	4037	4064	4088	4112	4133	4153	4179	4206	4236	4262	4289	4314	4337

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Personal Vehicles														
EPA Rated New Vehicle Fuel Efficiency														
Conventional Cars (miles per gallon)														
Minicompact	25.874	25.964	26.034	26.096	26.162	26.212	26.259	26.307	26.389	26.453	26.521	26.575	26.609	0.4%
Subcompact	30.840	30.984	31.104	31.204	31.299	31.366	31.430	31.510	31.632	31.715	31.793	31.850	31.888	0.1%
Compact	30.454	30.620	30.705	30.772	30.839	30.881	30.919	30.974	31.074	31.138	31.199	31.240	31.267	0.1%
Midsized	26.825	26.919	27.004	27.088	27.164	27.214	27.259	27.305	27.388	27.447	27.504	27.547	27.575	0.1%
Large	24.998	25.144	25.250	25.347	25.447	25.523	25.578	25.649	25.753	25.830	25.909	25.957	25.992	0.1%
Two Seater	25.238	25.363	25.467	25.568	25.668	25.736	25.783	25.840	25.931	26.000	26.072	26.127	26.164	0.2%
Average New Car	28.174	28.324	28.416	28.504	28.611	28.654	28.696	28.765	28.862	28.934	29.007	29.048	29.100	0.2%
Average New Car On-Road Miles per Gallon	21.959	22.167	22.331	22.492	22.669	22.795	22.921	23.069	23.146	23.203	23.262	23.293	23.335	0.5%
Conventional Light Trucks														
Small Pickup	23.041	23.226	23.436	23.604	23.779	23.903	24.026	24.166	24.344	24.468	24.573	24.650	24.718	0.4%
Large Pickup	19.411	19.544	19.684	19.829	19.950	20.066	20.147	20.247	20.383	20.489	20.569	20.633	20.700	0.4%
Small Van	23.211	23.328	23.432	23.552	23.644	23.735	23.824	23.935	24.092	24.202	24.314	24.392	24.463	0.2%
Large Van	18.894	19.048	19.184	19.329	19.463	19.583	19.666	19.776	19.935	20.039	20.156	20.253	20.348	0.5%
Small Utility	22.002	22.176	22.315	22.476	22.625	22.752	22.867	23.000	23.163	23.274	23.393	23.483	23.557	0.5%
Large Utility	18.203	18.333	18.457	18.588	18.707	18.794	18.874	18.979	19.123	19.209	19.307	19.385	19.454	0.4%
Average New Light Truck	21.030	21.177	21.317	21.468	21.597	21.708	21.806	21.920	22.072	22.179	22.281	22.361	22.433	0.4%
Average New Light Truck On-Road MPG	16.751	16.854	16.952	17.059	17.148	17.222	17.286	17.362	17.482	17.566	17.647	17.710	17.767	0.3%
Degradation Factors 1/														
Cars	0.779	0.783	0.786	0.789	0.792	0.796	0.799	0.802	0.802	0.802	0.802	0.802	0.802	0.3%
Light Trucks	0.797	0.796	0.795	0.795	0.794	0.793	0.793	0.792	0.792	0.792	0.792	0.792	0.792	-0.1%
New Fuel Efficiency by Size Class 2/														
Alternative-Fuel Cars														
Minicompact	33.63	33.19	32.98	32.86	32.61	32.61	32.68	32.50	32.54	32.63	32.63	32.67	32.69	0.8%
Subcompact	39.780	40.053	40.079	39.885	40.230	40.280	40.281	40.429	40.531	40.564	40.601	40.616	40.629	0.9%
Compact	37.456	37.834	37.866	37.617	38.052	38.100	38.086	38.270	38.370	38.392	38.420	38.426	38.439	0.8%
Midsized	32.636	33.016	33.071	32.878	33.313	33.349	33.364	33.540	33.605	33.646	33.677	33.726	33.748	0.7%
Large	31.000	31.363	31.423	31.263	31.683	31.737	31.755	31.938	32.044	32.102	32.161	32.189	32.243	0.8%
Two Seater	41.982	43.752	44.307	44.574	45.575	45.669	45.513	46.236	46.320	46.239	46.257	46.200	46.157	2.2%
Average New Alternative Cars	34.466	34.923	35.000	34.818	35.348	35.379	35.365	35.634	35.720	35.750	35.792	35.806	35.849	0.9%
Alternative-Fuel Light Trucks														
Small Pickup	23.252	23.440	23.654	23.848	24.019	24.139	24.266	24.417	24.614	24.755	24.875	24.961	25.030	0.5%
Large Pickup	19.629	19.777	19.930	20.092	20.224	20.337	20.437	20.535	20.664	20.763	20.842	20.905	20.972	0.4%
Small Van	28.546	28.693	28.709	28.625	28.887	28.953	28.987	29.161	29.300	29.374	29.453	29.501	29.560	0.8%
Large Van	19.106	19.274	19.421	19.585	19.731	19.862	19.958	20.073	20.230	20.359	20.461	20.549	20.640	0.5%
Small Utility	25.075	25.372	25.500	25.521	25.831	25.937	26.029	26.225	26.373	26.487	26.592	26.692	26.782	0.8%
Large Utility	20.669	20.907	21.016	21.032	21.305	21.383	21.441	21.614	21.755	21.832	21.918	21.980	22.051	0.9%
Average New Alternative Light Trucks	24.275	24.542	24.639	24.637	24.970	25.061	25.136	25.338	25.486	25.586	25.688	25.762	25.860	0.9%
Fleet Vehicles														
EPA Rated New Vehicle Fuel Efficiency														
Cars	28.217	28.343	28.438	28.524	28.606	28.662	28.711	28.769	28.866	28.934	28.999	29.046	29.076	0.1%
Light Trucks	20.111	20.246	20.377	20.514	20.634	20.736	20.820	20.927	21.074	21.174	21.272	21.348	21.420	0.4%
Average On-Road Miles per Gallon														
Cars	21.793	21.987	22.182	22.366	22.534	22.689	22.835	22.976	23.028	23.082	23.139	23.194	23.236	0.5%
Light Trucks	15.714	15.835	15.949	16.062	16.164	16.249	16.327	16.401	16.489	16.575	16.659	16.743	16.821	0.3%

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
New Vehicle Sales Shares (percent)														
Conventional Cars														
Minicompact	0.377	0.379	0.378	0.380	0.384	0.380	0.379	0.379	0.379	0.380	0.382	0.381	0.387	0.3%
Subcompact	14.365	14.450	14.412	14.467	14.594	14.477	14.443	14.453	14.444	14.499	14.561	14.521	14.722	0.3%
Compact	33.471	33.611	33.575	33.655	33.849	33.657	33.611	33.584	33.538	33.634	33.749	33.690	33.985	0.2%
Midsize	34.802	34.678	34.724	34.654	34.483	34.651	34.691	34.719	34.757	34.671	34.570	34.618	34.356	-0.2%
Large	15.286	15.185	15.215	15.148	14.998	15.139	15.181	15.171	15.188	15.123	15.047	15.098	14.864	-0.4%
Two Seater	1.699	1.696	1.697	1.696	1.692	1.695	1.696	1.695	1.695	1.693	1.691	1.692	1.687	-0.1%
Conventional Light Trucks														
Small Pickup	12.478	12.418	12.451	12.433	12.355	12.434	12.461	12.478	12.500	12.459	12.388	12.427	12.294	-0.3%
Large Pickup	21.592	21.594	21.607	21.613	21.617	21.632	21.632	21.664	21.682	21.677	21.667	21.660	21.671	0.0%
Small Van	17.713	17.805	17.765	17.817	17.948	17.821	17.786	17.764	17.731	17.801	17.884	17.855	18.052	0.3%
Large Van	2.484	2.488	2.491	2.492	2.492	2.493	2.495	2.498	2.501	2.501	2.500	2.500	2.502	0.0%
Small Utility	31.920	31.882	31.881	31.848	31.797	31.831	31.838	31.822	31.818	31.795	31.784	31.786	31.716	0.0%
Large Utility	13.813	13.812	13.804	13.797	13.791	13.789	13.788	13.774	13.768	13.768	13.776	13.772	13.766	0.0%
New Vehicle Average Horsepower														
Conventional Cars														
Minicompact	281.329	282.829	284.195	285.430	286.544	287.596	288.590	289.349	289.727	290.050	290.405	290.701	290.929	0.7%
Subcompact	178.327	179.845	181.216	182.476	183.577	184.632	185.683	186.607	187.260	187.737	188.190	188.613	188.822	1.0%
Compact	172.797	174.493	176.065	177.448	178.670	179.948	181.253	182.331	183.136	183.798	184.480	185.210	185.652	1.2%
Midsize	220.714	222.755	224.646	226.378	227.929	229.438	230.956	232.207	233.125	233.849	234.585	235.342	235.787	1.1%
Large	253.887	255.692	257.338	258.820	260.124	261.408	262.741	264.000	264.854	265.538	266.272	266.843	267.138	0.8%
Two Seater	301.071	302.119	303.121	304.011	304.823	305.567	306.241	306.872	307.099	307.216	307.375	307.564	307.646	0.6%
Average New Car	205.252	206.908	208.607	210.014	211.138	212.646	214.033	215.171	216.023	216.577	217.131	217.856	217.921	1.0%
Conventional Light Trucks														
Small Pickup	204.278	206.151	207.723	209.200	210.540	211.755	212.995	214.145	214.896	215.501	216.205	216.478	216.508	1.1%
Large Pickup	272.224	274.320	275.853	277.431	278.768	279.318	279.829	280.339	280.326	280.301	280.254	280.255	280.245	0.9%
Small Van	223.133	225.204	226.811	228.355	229.745	231.086	232.490	233.728	234.473	235.103	235.723	236.251	236.676	1.1%
Large Van	270.148	272.418	274.137	275.883	277.440	278.756	280.107	281.023	280.905	280.746	280.565	280.440	280.307	0.9%
Small Utility	222.405	223.082	223.769	224.472	225.166	225.860	226.574	227.192	227.359	227.428	227.518	227.559	227.565	0.8%
Large Utility	291.992	293.930	295.503	297.110	298.599	300.009	301.423	302.837	303.181	303.129	303.044	302.995	302.907	0.9%
Average New Light Truck	241.827	243.435	244.723	246.014	247.198	248.145	249.110	250.003	250.325	250.525	250.741	250.859	250.957	0.9%
New Vehicle Average Weight														
Conventional Cars														
Minicompact	3673.220	3676.467	3678.593	3681.114	3683.390	3686.327	3689.163	3691.486	3688.986	3686.467	3683.800	3682.156	3680.790	0.2%
Subcompact	2951.026	2952.427	2954.254	2956.227	2958.100	2960.145	2962.070	2964.140	2962.194	2960.413	2958.771	2957.435	2956.094	0.3%
Compact	3013.574	3015.530	3017.355	3019.225	3020.995	3023.022	3024.944	3026.858	3024.801	3022.827	3021.021	3019.682	3018.361	0.3%
Midsize	3517.579	3520.085	3522.511	3524.897	3527.199	3529.744	3532.217	3534.802	3532.668	3530.517	3528.490	3526.968	3525.475	0.3%
Large	3914.451	3917.293	3920.680	3923.543	3926.162	3928.616	3931.108	3934.180	3931.849	3929.692	3927.922	3926.034	3924.142	0.3%
Two Seater	3194.079	3196.545	3198.696	3200.805	3202.744	3204.870	3206.610	3208.889	3206.874	3204.874	3202.919	3201.495	3200.202	0.3%
Average New Car	3323.253	3323.890	3326.686	3327.926	3327.742	3332.208	3335.002	3337.397	3335.641	3332.547	3329.452	3328.698	3323.683	0.2%
Conventional Light Trucks														
Small Pickup	3902.589	3907.866	3912.678	3918.323	3923.594	3929.272	3935.208	3941.029	3939.428	3938.210	3937.268	3936.924	3936.517	0.3%
Large Pickup	5046.192	5054.021	5060.603	5068.726	5076.997	5085.232	5093.471	5101.422	5099.896	5098.469	5096.791	5096.113	5095.363	0.3%
Small Van	4346.601	4352.079	4357.239	4363.313	4369.753	4376.037	4382.561	4388.442	4385.718	4382.808	4379.405	4376.881	4374.473	0.3%
Large Van	5058.758	5063.922	5069.647	5077.003	5084.863	5093.280	5101.767	5109.501	5107.370	5104.478	5101.186	5098.911	5096.491	0.3%
Small Utility	4123.195	4128.965	4134.639	4141.109	4147.598	4153.935	4160.266	4166.145	4163.932	4161.444	4158.828	4156.713	4154.509	0.3%
Large Utility	5486.006	5491.463	5497.430	5505.098	5513.312	5521.479	5530.380	5538.772	5536.345	5533.088	5529.397	5526.693	5523.703	0.3%
Average New Light Truck	4546.017	4552.454	4558.042	4564.994	4572.403	4579.040	4586.029	4592.795	4590.672	4588.586	4586.426	4584.417	4583.354	0.3%
Average Weight for the Stock														

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Conventional Cars	3213	3225	3236	3246	3256	3265	3274	3282	3289	3295	3301	3305	3309	0.2%
Conventional Light Trucks	4359	4380	4399	4417	4434	4449	4465	4479	4491	4502	4511	4520	4528	0.5%

Table 49. Summary of New Light-Duty Vehicle Size Class Attributes

1/ Conversion factor used to convert Environmental Protection Agency rated to "on road" miles per gallon.

2/ Environmental Protection Agency rated miles per gallon.

Sources: 2001 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); National Highway Traffic and Safety Administration, Mid-Year Fuel Economy Reports from Auto Manufacturers, 1998; Federal Highway Administration, Highway Statistics 2000 (Washington, DC, November 2001); Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the U.S. Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO99 National Energy Modeling System run aeo2003.d110502c.

**Table 50. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology
(Trillion Btu)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Cars 1/													
Conventional Gasoline	744.36	758.14	747.09	734.63	707.99	654.59	627.95	610.15	594.07	584.29	575.51	567.04	561.45
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.78	0.62	0.46	0.26	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	5.24	14.51	23.03	31.37	38.99	40.41	39.87	38.78	37.75	36.98	36.42	35.93	35.52
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	1.43	2.70	3.86	5.00	6.06	6.76	7.00	6.80	6.61	6.45	6.33	6.25	6.18
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	1.33	7.04	12.33	17.55	22.43	25.31	26.17	25.42	24.73	24.14	23.72	23.42	23.15
Electric	0.41	0.59	0.76	0.92	1.04	1.05	0.92	0.82	0.73	0.66	0.62	0.61	0.60
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Cars	753.54	783.61	787.53	789.73	776.64	728.12	701.90	681.97	663.88	652.52	642.61	633.24	626.91
Light Trucks 1/													
Conventional Gasoline	849.55	812.79	772.80	731.74	686.27	628.25	629.99	639.55	646.99	654.78	669.38	680.98	688.20
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.02	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	1.25	14.38	27.04	40.33	53.69	66.38	70.11	71.07	71.92	72.74	74.21	75.52	76.36
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	8.39	11.82	15.10	18.60	22.08	25.30	25.32	25.68	25.96	26.25	26.85	27.34	27.68
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	14.02	28.02	41.50	55.65	69.89	83.39	85.64	86.88	87.85	88.84	90.80	92.42	93.46
Electric	0.29	0.65	1.00	1.36	1.68	1.95	1.97	1.84	1.72	1.62	1.58	1.57	1.58
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Light Trucks	873.52	867.69	857.45	847.69	833.60	805.26	813.03	825.02	834.44	844.24	862.82	877.83	887.28
Total Fleet Vehicles	1627.06	1651.30	1644.98	1637.42	1610.24	1533.38	1514.94	1506.98	1498.32	1496.76	1505.43	1511.07	1514.19
Commercial Light Trucks 2/	634.64	603.87	596.29	613.35	631.46	645.00	663.16	685.21	707.27	730.41	755.71	779.09	801.10

**Table 50. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology
(Trillion Btu)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Cars 1/														
Conventional Gasoline	559.51	560.51	563.52	567.21	569.29	567.10	563.58	558.77	554.72	552.19	548.46	547.73	548.06	-1.3%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-28.2%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol														
Flex	35.32	35.34	35.49	35.67	35.78	35.69	35.52	35.23	34.98	34.80	34.59	34.52	34.49	3.7%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	6.14	6.14	6.17	6.20	6.22	6.22	6.22	6.18	6.15	6.13	6.10	6.09	6.08	3.4%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	22.97	22.96	23.05	23.16	23.22	23.21	23.15	23.01	22.86	22.75	22.63	22.60	22.56	5.0%
Electric	0.60	0.60	0.61	0.61	0.62	0.62	0.62	0.62	0.61	0.61	0.61	0.61	0.61	0.1%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Fleet Cars	624.54	625.55	628.84	632.85	635.13	632.83	629.08	623.81	619.34	616.48	612.40	611.55	611.80	-1.0%
Light Trucks 1/														
Conventional Gasoline	694.57	702.75	709.71	715.98	721.44	724.51	725.44	722.87	716.73	711.43	706.47	702.91	699.29	-0.6%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-14.4%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol														
Flex	77.03	77.90	78.66	79.28	79.80	80.09	80.21	79.93	79.25	78.64	78.08	77.70	77.29	7.3%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	27.98	28.37	28.71	29.01	29.28	29.46	29.55	29.50	29.30	29.13	28.97	28.86	28.75	3.8%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	94.36	95.52	96.48	97.32	98.06	98.50	98.68	98.38	97.59	96.92	96.30	95.87	95.41	5.2%
Electric	1.61	1.65	1.68	1.71	1.74	1.76	1.78	1.79	1.78	1.78	1.78	1.78	1.78	4.3%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Fleet Light Trucks	895.56	906.18	915.24	923.30	930.31	934.33	935.65	932.47	924.65	917.90	911.60	907.12	902.51	0.2%
Total Fleet Vehicles	1520.10	1531.73	1544.08	1556.15	1565.44	1567.16	1564.73	1556.28	1543.98	1534.38	1524.00	1518.67	1514.32	-0.4%
Commercial Light Trucks 2/	820.57	839.86	855.41	868.82	883.25	898.44	915.83	930.57	944.72	961.86	979.23	999.15	1015.66	2.2%

**Table 50. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology
(Trillion Btu)**

1/ Includes all fleets of 10 or more.

2/ Commercial trucks from 8,500 to 10,000 pounds.

ICE = Internal combustion engine.

N/A = Not Applicable.

Sources: 2001 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Federal Highway Administration, Highway Statistics 2000 (Washington, DC, November 2001); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, prepared for the Energy Information Administration (EIA) (April 23, 1997); and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 51. Transportation Fleet Car and Truck Sales by Type and Technology
(Thousands)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Cars 1/													
Conventional Gasoline	1587.37	1511.09	1433.83	1423.35	1381.93	1291.35	1283.60	1279.53	1239.85	1217.82	1227.04	1233.90	1235.61
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	79.76	84.78	80.44	79.86	77.53	72.45	72.02	71.79	69.56	68.33	68.84	69.23	69.32
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	11.00	12.29	11.66	11.58	11.24	10.50	10.44	10.41	10.09	9.91	9.98	10.04	10.05
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	42.64	47.41	44.99	44.66	43.36	40.51	40.27	40.14	38.90	38.21	38.50	38.71	38.77
Electric	2.16	2.51	2.38	2.37	2.30	2.15	2.14	2.13	2.06	2.03	2.04	2.05	2.06
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Cars	1722.94	1658.08	1573.31	1561.81	1516.36	1416.97	1408.47	1404.00	1360.45	1336.28	1346.40	1353.93	1355.81
Light Trucks 1/													
Conventional Gasoline	823.96	783.56	762.91	789.91	797.92	774.17	797.70	823.24	825.07	837.62	871.88	881.60	886.98
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	72.10	82.41	80.24	83.08	83.92	81.42	83.90	86.58	86.78	88.09	91.70	92.72	93.29
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	26.71	30.30	29.50	30.55	30.86	29.94	30.85	31.84	31.91	32.39	33.72	34.09	34.30
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	88.69	100.92	98.26	101.74	102.77	99.71	102.74	106.03	106.27	107.88	112.30	113.55	114.24
Electric	2.74	3.27	3.19	3.30	3.33	3.24	3.33	3.44	3.45	3.50	3.64	3.68	3.71
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Light Trucks	1014.21	1000.47	974.10	1008.58	1018.80	988.48	1018.53	1051.14	1053.47	1069.49	1113.24	1125.65	1132.52
Total Fleet Vehicles	2737.15	2658.55	2547.42	2570.40	2535.17	2405.46	2426.99	2455.13	2413.92	2405.77	2459.64	2479.58	2488.33
Commercial Light Trucks 2/	449.58	455.72	455.46	479.68	493.35	487.74	512.37	539.32	551.44	571.25	606.80	626.14	642.85

**Table 51. Transportation Fleet Car and Truck Sales by Type and Technology
(Thousands)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Cars 1/														
Conventional Gasoline	1248.18	1280.54	1305.36	1311.60	1308.00	1298.35	1307.74	1299.97	1282.88	1287.87	1285.02	1304.13	1295.43	-0.6%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.6%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol														
Flex	70.03	71.84	73.24	73.59	73.39	72.84	73.37	72.93	71.98	72.26	72.10	73.17	72.68	-0.6%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	10.15	10.42	10.62	10.67	10.64	10.56	10.64	10.57	10.44	10.48	10.45	10.61	10.54	-0.6%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	39.16	40.18	40.95	41.15	41.04	40.73	41.03	40.79	40.25	40.41	40.32	40.92	40.64	-0.6%
Electric	2.08	2.13	2.17	2.18	2.18	2.16	2.18	2.16	2.13	2.14	2.14	2.17	2.15	-0.6%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Fleet Cars	1369.60	1405.10	1432.35	1439.19	1435.24	1424.65	1434.96	1426.42	1407.67	1413.15	1410.02	1430.99	1421.44	-0.6%
Light Trucks 1/														
Conventional Gasoline	899.59	926.05	946.74	953.61	952.99	947.65	955.96	951.50	939.00	942.65	940.56	954.55	948.18	0.8%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.8%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol														
Flex	94.61	97.40	99.57	100.29	100.23	99.67	100.54	100.07	98.76	99.14	98.92	100.39	99.72	0.8%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	34.79	35.81	36.61	36.88	36.86	36.65	36.97	36.80	36.31	36.46	36.37	36.92	36.67	0.8%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	115.87	119.28	121.94	122.83	122.75	122.06	123.13	122.55	120.94	121.41	121.14	122.95	122.13	0.8%
Electric	3.76	3.87	3.96	3.99	3.98	3.96	4.00	3.98	3.92	3.94	3.93	3.99	3.96	0.8%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Fleet Light Trucks	1148.62	1182.41	1208.83	1217.60	1216.81	1209.99	1220.60	1214.91	1198.94	1203.60	1200.93	1218.80	1210.67	0.8%
Total Fleet Vehicles	2518.23	2587.51	2641.17	2656.79	2652.05	2634.64	2655.56	2641.33	2606.61	2616.75	2610.95	2649.79	2632.11	0.0%
Commercial Light Trucks 2/	665.28	698.72	728.69	748.61	762.88	773.41	795.26	806.65	811.50	830.21	843.93	872.32	882.28	2.8%

**Table 51. Transportation Fleet Car and Truck Sales by Type and Technology
(Thousands)**

1/ Includes all fleets of 10 or more.

2/ Commercial trucks from 8,500 to 10,000 pounds.

ICE = Internal combustion engine.

N/A = Not Applicable.

Sources: 2001 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Federal Highway Administration, Highway Statistics 2000 (Washington, DC, November 2001); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, prepared for the Energy Information Administration (EIA) (April 23, 1997); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

Table 52. Transportation Fleet Car and Truck Stock by Type and Technology

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Cars 1/													
Conventional Gasoline	6099.66	6236.90	6197.55	6099.58	5894.08	5464.93	5270.41	5132.44	4996.56	4919.82	4864.27	4822.52	4817.95
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	6.22	4.96	3.72	2.42	1.11	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	40.94	117.57	189.40	258.65	322.41	333.79	331.11	322.73	314.19	308.04	304.35	301.84	300.82
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	11.46	21.46	30.70	39.74	48.13	53.79	56.05	54.60	53.21	51.96	51.18	50.78	50.51
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	10.70	55.90	98.27	139.74	178.76	201.73	209.94	204.55	199.28	194.75	191.94	190.41	189.46
Electric	3.98	5.80	7.51	9.19	10.70	11.28	10.65	10.39	10.11	9.89	9.77	9.69	9.64
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Cars	6172.97	6442.59	6527.15	6549.32	6455.19	6065.58	5878.17	5724.72	5573.36	5484.47	5421.51	5375.24	5368.38
Light Trucks 1/													
Conventional Gasoline	5285.22	5060.74	4835.35	4550.96	4244.67	3875.90	3889.31	3945.38	3982.94	4024.00	4116.38	4200.05	4265.04
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.16	0.13	0.10	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	7.57	88.71	167.43	248.52	329.40	406.09	429.05	434.67	439.14	443.57	452.99	462.35	469.72
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	54.94	75.22	94.83	114.95	134.89	153.55	153.86	156.07	157.55	159.12	162.76	166.08	168.64
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	87.42	171.83	253.66	337.37	421.16	500.70	514.71	522.01	527.02	532.29	544.31	555.44	564.05
Electric	2.39	5.24	8.01	10.86	13.70	16.39	17.48	17.69	17.88	18.06	18.43	18.81	19.12
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Light Trucks	5437.71	5401.87	5359.38	5262.73	5143.86	4952.64	5004.40	5075.83	5124.53	5177.05	5294.86	5402.73	5486.58
Total Fleet Vehicles	11610.67	11844.46	11886.53	11812.05	11599.05	11018.22	10882.57	10800.55	10697.89	10661.52	10716.37	10777.97	10854.96
Commercial Light Trucks 2/	5828.92	5609.92	5539.06	5588.33	5707.87	5850.95	6027.97	6228.04	6427.73	6629.53	6845.57	7058.09	7264.85

Table 52. Transportation Fleet Car and Truck Stock by Type and Technology

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Cars 1/														
Conventional Gasoline	4845.97	4898.95	4969.85	5043.47	5100.13	5117.18	5120.61	5109.99	5085.33	5074.02	5052.88	5058.09	5069.27	-0.9%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-27.9%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol														
Flex	301.83	304.88	309.04	313.26	316.73	318.36	319.16	318.78	317.35	316.53	315.45	315.63	315.92	4.2%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	50.50	50.91	51.56	52.20	52.75	53.11	53.37	53.40	53.19	53.04	52.88	52.91	52.88	3.8%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	189.55	191.18	193.64	196.08	198.17	199.47	200.37	200.39	199.60	199.04	198.44	198.53	198.49	5.4%
Electric	9.66	9.75	9.88	10.00	10.11	10.18	10.22	10.21	10.17	10.14	10.11	10.11	10.11	2.3%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Fleet Cars	5397.51	5455.67	5533.97	5615.03	5677.90	5698.31	5703.73	5692.76	5665.65	5652.77	5629.77	5635.27	5646.67	-0.5%
Light Trucks 1/														
Conventional Gasoline	4337.20	4423.54	4500.41	4571.91	4636.02	4682.24	4712.82	4719.12	4705.32	4695.16	4687.24	4687.44	4684.52	-0.3%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-14.3%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol														
Flex	477.47	486.95	495.74	503.51	510.47	515.72	519.53	520.61	519.28	518.18	517.27	517.41	516.97	7.6%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	171.50	174.93	177.97	180.78	183.32	185.20	186.46	186.73	186.20	185.80	185.50	185.49	185.35	3.8%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	573.57	585.05	595.26	604.65	613.14	619.43	623.69	624.66	622.92	621.58	620.56	620.57	620.09	5.5%
Electric	19.43	19.81	20.18	20.49	20.77	20.99	21.15	21.20	21.16	21.11	21.07	21.08	21.06	6.0%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Fleet Light Trucks	5579.16	5690.29	5789.57	5881.34	5963.72	6023.58	6063.66	6072.33	6054.87	6041.84	6031.64	6031.99	6028.00	0.5%
Total Fleet Vehicles	10976.67	11145.97	11323.53	11496.37	11641.62	11721.89	11767.39	11765.09	11720.51	11694.61	11661.40	11667.26	11674.67	-0.1%
Commercial Light Trucks 2/	7474.65	7702.49	7948.35	8204.37	8466.06	8729.04	9003.11	9274.95	9535.43	9796.32	10051.13	10313.42	10564.10	2.7%

Table 52. Transportation Fleet Car and Truck Stock by Type and Technology

1/ Includes all fleets of 10 or more.

2/ Commercial trucks from 8,500 to 10,000 pounds.

ICE = Internal combustion engine.

N/A = Not applicable.

Sources: 2001 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Federal Highway Administration, Highway Statistics 2000 (Washington, DC, November 2001); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, (April 23, 1997); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

Table 53. Transportation Fleet Car and Truck Vehicle Miles Traveled by Truck and Technology

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Cars 1/													
Conventional Gasoline	122.26	125.98	125.81	124.33	120.61	112.09	107.86	104.92	102.02	100.40	99.20	98.25	98.11
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.12	0.10	0.08	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	0.82	2.37	3.84	5.27	6.60	6.85	6.78	6.60	6.41	6.29	6.21	6.15	6.13
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	0.23	0.43	0.62	0.81	0.98	1.10	1.15	1.12	1.09	1.06	1.04	1.03	1.03
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	0.21	1.13	1.99	2.85	3.66	4.14	4.30	4.18	4.07	3.97	3.91	3.88	3.86
Electric	0.08	0.12	0.15	0.19	0.22	0.23	0.22	0.21	0.21	0.20	0.20	0.20	0.20
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Cars	123.73	130.14	132.50	133.50	132.09	124.41	120.30	117.03	113.79	111.92	110.56	109.51	109.32
Light Trucks 1/													
Conventional Gasoline	105.94	102.23	98.16	92.76	86.86	79.50	79.60	80.66	81.32	82.12	83.95	85.57	86.85
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methanol													
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol													
Flex	0.15	1.79	3.40	5.07	6.74	8.33	8.78	8.89	8.97	9.05	9.24	9.42	9.57
Neat	0.15	1.79	3.40	5.07	6.74	8.33	8.78	8.89	8.97	9.05	9.24	9.42	9.57
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas Bi-fuel	1.10	1.52	1.93	2.34	2.76	3.15	3.15	3.19	3.22	3.25	3.32	3.38	3.43
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquefied Petroleum Gas Bi-fuel	1.75	3.47	5.15	6.88	8.62	10.27	10.53	10.67	10.76	10.86	11.10	11.32	11.49
Electric	0.05	0.11	0.16	0.22	0.28	0.34	0.36	0.36	0.37	0.37	0.38	0.38	0.39
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell													
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Fleet Light Truck	109.15	110.91	112.19	112.34	112.00	109.92	111.20	112.65	113.59	114.70	117.22	119.49	121.29
Total Fleet Vehicles	232.88	241.05	244.70	245.84	244.09	234.33	231.49	229.69	227.39	226.62	227.78	229.00	230.61
Commercial Light Trucks 2/	69.10	66.20	65.68	67.79	69.93	71.52	73.56	75.96	78.28	80.78	83.58	86.22	88.80

Table 53. Transportation Fleet Car and Truck Vehicle Miles Traveled by Truck and Technology

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Cars 1/														
Conventional Gasoline	98.67	99.73	101.15	102.66	103.81	104.12	104.14	103.89	103.37	103.14	102.70	102.81	103.05	-0.8%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-27.9%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol														
Flex	6.15	6.21	6.29	6.38	6.45	6.48	6.49	6.48	6.45	6.43	6.41	6.42	6.42	4.2%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.09	1.08	1.08	1.08	1.07	1.08	3.9%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	3.86	3.89	3.94	3.99	4.03	4.06	4.07	4.07	4.06	4.05	4.03	4.04	4.04	5.4%
Electric	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	2.4%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Fleet Cars	109.90	111.06	112.63	114.29	115.57	115.94	116.00	115.73	115.16	114.90	114.42	114.54	114.79	-0.5%
Light Trucks 1/														
Conventional Gasoline	88.31	90.05	91.60	93.06	94.36	95.27	95.84	95.94	95.64	95.44	95.27	95.27	95.23	-0.3%
Distillate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Methanol														
Flex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-14.3%
Neat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ethanol														
Flex	9.72	9.91	10.09	10.25	10.39	10.49	10.57	10.58	10.56	10.53	10.51	10.52	10.51	7.6%
Neat	9.72	9.91	10.09	10.25	10.39	10.49	10.57	10.58	10.56	10.53	10.51	10.52	10.51	7.6%
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compressed Natural Gas Bi-fuel	3.49	3.56	3.62	3.68	3.73	3.77	3.79	3.80	3.78	3.78	3.77	3.77	3.77	3.9%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas Bi-fuel	11.68	11.91	12.12	12.31	12.48	12.60	12.68	12.70	12.66	12.63	12.61	12.61	12.61	5.5%
Electric	0.40	0.40	0.41	0.42	0.42	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	6.0%
Electric-Diesel Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric-Gasoline Hybrid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell														
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Fleet Light Truck	123.32	125.75	127.93	129.96	131.78	133.05	133.88	134.04	133.63	133.35	133.11	133.12	133.05	0.8%
Total Fleet Vehicles	233.22	236.81	240.56	244.26	247.35	248.99	249.88	249.77	248.80	248.25	247.53	247.65	247.85	0.1%
Commercial Light Trucks 2/	91.20	93.66	95.78	97.72	99.84	102.07	104.59	106.83	109.05	111.64	114.28	117.24	119.80	2.5%

Table 53. Transportation Fleet Car and Truck Vehicle Miles Traveled by Truck and Technology

1/ Includes all fleets of 10 or more.

2/ Commercial trucks from 8,500 to 10,000 pounds.

ICE = Internal combustion engine.

N/A = Not applicable.

Sources: 2001 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); Federal Highway Administration, Highway Statistics 2000 (Washington, DC, November 2001); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, (April 23, 1997); and Energy Information Administration (EIA), AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

Table 54. Air Travel Energy Use

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Fuel Cost (1987 dollars per million Btu)	5.1	4.4	4.2	4.5	4.1	4.0	3.9	3.9	4.0	4.0	4.0	4.1	4.1
Macro Variables (1996 dollars)													
Gross Domestic Product	9191.4	9214.5	9439.7	9743.3	10074.5	10361.2	10666.6	11017.3	11407.9	11810.3	12258.4	12671.3	13081.8
Disposable Income	6630.3	6748.0	7046.8	7160.7	7248.8	7420.8	7625.9	7848.1	8094.0	8349.8	8637.2	8905.1	9181.4
Real Merchandise Exports	834.7	785.2	762.7	823.6	888.4	938.5	1018.7	1088.1	1171.9	1269.8	1372.8	1481.8	1595.2
Yield (ticket price, 1996 dollars) 1/	13.5	12.2	13.1	13.1	12.7	12.5	12.3	12.1	12.0	11.8	11.9	11.9	11.8
Travel Demand (billion miles)													
Revenue Passenger Miles Domestic	509.4	481.4	489.6	478.7	479.2	494.2	511.0	528.7	548.9	569.8	587.6	605.7	625.0
Personal	278.7	248.9	272.1	260.7	259.9	268.1	277.6	287.2	298.2	309.7	319.3	329.1	339.8
Business	230.8	232.5	217.6	218.0	219.2	226.1	233.4	241.6	250.7	260.1	268.2	276.6	285.2
Load Factor, Domestic 2/	0.71	0.70	0.70	0.70	0.71	0.71	0.71	0.71	0.72	0.72	0.72	0.73	0.73
Revenue Passenger Miles, International	190.3	176.5	192.1	190.6	191.2	197.4	204.3	211.8	220.1	228.7	236.1	243.7	251.8
Load Factor, International 2/	0.76	0.74	0.76	0.76	0.76	0.76	0.76	0.77	0.77	0.77	0.77	0.77	0.77
Revenue Ton Miles, Freight (billion)	19.9	18.0	13.6	14.4	14.6	15.6	17.1	18.3	19.9	21.7	23.7	25.7	27.9
Seat Miles Demanded (billion)	1167.8	1108.5	1085.7	1073.4	1074.0	1110.1	1154.9	1199.0	1249.8	1305.3	1355.4	1407.7	1462.5
Narrow Body Aircraft	604.1	567.7	550.5	538.8	533.7	546.2	562.5	578.2	596.6	616.9	634.1	652.0	670.6
Wide Body Aircraft	563.7	540.8	535.2	534.6	540.2	564.0	592.4	620.9	653.2	688.4	721.2	755.7	791.8
Aircraft Sales													
Narrow Body Aircraft	276.6	235.1	199.8	169.8	144.4	122.7	104.3	88.7	132.9	304.1	280.7	289.1	299.2
Wide Body Aircraft	77.8	66.1	56.2	47.8	40.6	34.5	22.2	91.5	101.4	109.0	104.9	109.5	114.4
Aircraft Stock													
Narrow Body Aircraft	5016.5	5136.0	5216.5	5264.4	5285.5	5284.1	5264.1	5228.0	5235.5	5412.9	5564.6	5721.7	5884.8
Wide Body Aircraft	1167.2	1215.4	1251.6	1277.2	1293.6	1302.0	1296.4	1358.6	1429.3	1506.4	1578.3	1653.6	1732.8
Advanced Technology Penetration													
Ultra-high Bypass	0.07	0.03	0.04	0.15	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Propfan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermodynamics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hybrid Laminar Flow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Advanced Aerodynamics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Weight Reducing Materials	0.00	0.01	0.02	0.04	0.08	0.14	0.25	0.40	0.57	0.73	0.85	0.92	0.96
New Aircraft Efficiency 3/													
Narrow Body Aircraft	49.7	50.1	50.5	50.8	51.1	51.4	51.7	52.0	52.3	52.6	53.1	53.5	53.9
Wide Body Aircraft	59.9	60.3	60.6	60.9	61.1	61.3	61.6	61.7	62.1	62.5	62.9	63.2	63.6
Average Aircraft	51.6	52.0	52.4	52.7	53.0	53.3	53.2	56.6	56.2	54.9	55.4	55.8	56.3
Aircraft Stock Efficiency 3/													
Narrow Body Aircraft	46.6	46.9	47.3	47.6	47.9	48.1	48.4	48.7	49.0	49.4	49.7	50.1	50.5
Wide Body Aircraft	56.2	56.5	56.8	57.0	57.2	57.4	57.6	57.9	58.3	58.7	59.0	59.4	59.7
Average Aircraft	50.8	51.2	51.5	51.8	52.2	52.5	52.7	53.1	53.4	53.9	54.3	54.7	55.1
Fuel Consumption (trillion Btu)													
Commercial													
Jet Fuel	3103.3	2924.3	2844.8	2794.7	2779.7	2857.1	2956.7	3049.7	3156.9	3271.1	3371.2	3475.2	3583.3
Aviation Gasoline	42.6	42.5	42.4	42.3	42.3	42.3	42.2	42.2	42.2	42.2	42.1	42.1	42.1
Military													
Jet Fuel	476.7	501.7	518.2	552.2	560.0	555.9	557.1	557.2	558.5	560.1	561.6	562.9	567.7

Table 54. Air Travel Energy Use

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Fuel Cost (1987 dollars per million Btu)	4.2	4.2	4.3	4.3	4.4	4.4	4.5	4.5	4.6	4.7	4.7	4.7	4.8	0.3%
Macro Variables (1996 dollars)														
Gross Domestic Product	13479.9	13892.9	14287.9	14680.7	15101.4	15540.1	16013.0	16450.0	16887.9	17362.6	17858.1	18388.7	18916.5	3.0%
Disposable Income	9467.3	9778.5	10086.6	10394.5	10712.0	11043.2	11399.6	11713.2	12003.3	12318.1	12676.2	13061.4	13435.3	2.9%
Real Merchandise Exports	1716.8	1845.5	1977.3	2115.7	2273.3	2452.6	2638.6	2827.0	3025.8	3243.9	3476.9	3719.1	3985.5	7.0%
Yield (ticket price, 1996 dollars) 1/	11.8	11.7	11.7	11.7	11.8	11.9	12.1	12.2	12.4	12.7	13.0	13.4	13.8	0.5%
Travel Demand (billion miles)														
Revenue Passenger Miles Domestic	644.1	664.2	683.1	702.5	720.0	737.5	752.6	767.2	779.9	791.8	802.0	811.5	819.5	2.2%
Personal	350.5	361.9	372.9	384.5	394.9	405.2	414.1	422.6	429.9	436.6	442.3	447.7	452.2	2.5%
Business	293.6	302.2	310.2	318.0	325.2	332.3	338.6	344.6	350.1	355.2	359.7	363.8	367.3	1.9%
Load Factor, Domestic 2/	0.73	0.73	0.74	0.74	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.76	0.76	0.4%
Revenue Passenger Miles, International	259.9	268.4	276.4	284.3	291.5	298.6	304.8	310.7	315.9	320.7	324.8	328.7	331.9	2.7%
Load Factor, International 2/	0.77	0.78	0.78	0.78	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.3%
Revenue Ton Miles, Freight (billion)	30.2	32.6	35.2	37.9	41.0	44.5	48.3	52.1	56.1	60.6	65.3	70.4	75.9	6.2%
Seat Miles Demanded (billion)														
Narrow Body Aircraft	1519.5	1577.9	1636.5	1695.2	1756.1	1819.3	1881.8	1942.3	2002.4	2064.0	2126.8	2189.6	2255.6	3.0%
Wide Body Aircraft	689.8	709.2	728.1	746.7	765.8	785.5	804.3	821.9	838.8	856.0	873.2	890.0	907.7	2.0%
Aircraft Sales														
Narrow Body Aircraft	309.5	317.1	320.7	325.1	338.0	351.8	353.7	351.8	354.6	364.7	371.8	373.2	385.2	2.1%
Wide Body Aircraft	119.3	123.3	125.9	128.7	134.2	140.0	142.1	142.9	145.4	150.7	155.4	158.5	165.9	3.9%
Aircraft Stock														
Narrow Body Aircraft	6053.1	6222.9	6389.3	6552.4	6719.9	6892.4	7057.6	7211.9	7360.5	7511.2	7662.4	7809.6	7964.7	1.8%
Wide Body Aircraft	1815.6	1901.0	1987.7	2075.5	2167.0	2262.5	2357.9	2451.9	2546.3	2643.6	2743.3	2844.0	2949.8	3.8%
Advanced Technology Penetration														
Ultra-high Bypass	0.15	0.29	0.47	0.65	0.82	0.91	0.96	0.98	0.99	1.00	1.00	1.00	1.00	15.1%
Propfan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Thermodynamics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Hybrid Laminar Flow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Advanced Aerodynamics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Weight Reducing Materials	0.98	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	21.2%
New Aircraft Efficiency 3/														
Narrow Body Aircraft	54.3	54.7	55.1	55.5	55.9	56.4	56.8	57.2	57.6	58.1	58.5	58.9	59.4	0.7%
Wide Body Aircraft	64.0	64.4	65.3	66.3	67.2	67.7	68.0	68.1	68.1	68.2	68.2	68.5	68.9	0.6%
Average Aircraft	56.7	57.1	57.6	58.2	58.7	59.2	59.6	60.0	60.3	60.7	61.1	61.5	61.9	0.7%
Aircraft Stock Efficiency 3/														
Narrow Body Aircraft	50.9	51.3	51.7	52.0	52.4	52.8	53.2	53.6	54.0	54.4	54.8	55.2	55.7	0.7%
Wide Body Aircraft	60.1	60.4	60.8	61.2	61.6	62.0	62.4	62.8	63.2	63.6	63.9	64.2	64.6	0.6%
Average Aircraft	55.5	55.9	56.3	56.8	57.2	57.7	58.1	58.6	59.0	59.4	59.8	60.3	60.7	0.7%
Fuel Consumption (trillion Btu)														
Commercial														
Jet Fuel	3695.3	3809.0	3920.6	4030.0	4141.8	4256.9	4368.9	4475.8	4580.7	4688.3	4797.6	4905.5	5019.0	2.3%
Aviation Gasoline	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	0.0%
Military														
Jet Fuel	574.6	581.6	588.6	595.7	602.9	610.1	617.4	624.7	632.1	639.6	647.1	654.7	662.4	1.2%

Table 54. Air Travel Energy Use

1/ Fraction of seats filled.

2/ 1992 cents per passenger mile.

3/ Seat miles per gallon.

Btu = British thermal unit.

N/A = Not applicable.

Sources: 2001 derived using: Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Model Maintenance Re-Estimation of the Air Travel Demand Model, Subtask 22-1(a), (September 30, 1997); Federal Aviation Administration (FAA), FAA Aviation Forecasts, Fiscal Years 1998-2009, FAA-APO 98-1, and previous editions; United States Department of Transportation (DOT), Research and Special Programs Administration (RSPA), Fuel Cost and Consumption Tables, annual summaries, 1979-1990; U.S. Department of Transportation, RSPA, Air Carrier Financial Statistics Quarterly, December 1999/1998; U.S. Department of Transportation, RSPA, Air Carrier Statistics Monthly, December 2001/2000 (Washington, DC, 2001); Greene, D.L., "Energy Efficiency Improvement Potential of Commercial Aircraft to 2010," ORNL-6622, 6/1990; Rathi, A. B. Peterson, and D. Greene, Air Transport Energy Use Model, Oak Ridge National Laboratory, April 1991, Draft; Energy Information Administration (EIA), State Energy Data Report 1999, DOE/EIA-0214(99) (Washington, DC, May 2001); Department of Defense, Defense Energy Support Center, Fact Book: Fiscal Year 1999; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA AEO2003 National Energy Modeling System run aeo2003.d110502c.

Table 55. Freight Transportation Energy Use

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Existing Trucks by Size Class													
Vehicle Miles Traveled (billion miles)													
Medium													
Diesel	31.98	32.03	31.88	33.29	34.57	35.46	36.57	37.88	39.17	40.64	42.29	43.88	45.33
Gasoline	15.71	14.05	13.23	13.12	12.77	12.21	11.77	11.40	11.03	10.73	10.52	10.34	10.18
Liquefied Petroleum Gas	0.44	0.38	0.35	0.33	0.31	0.30	0.29	0.29	0.30	0.32	0.33	0.35	0.37
Compressed Natural Gas	0.04	0.04	0.06	0.08	0.13	0.19	0.27	0.36	0.47	0.60	0.73	0.86	0.99
Medium Subtotal	48.16	46.51	45.52	46.82	47.78	48.17	48.90	49.93	50.97	52.29	53.87	55.43	56.86
Heavy													
Diesel	157.28	157.51	156.57	163.41	170.18	175.12	180.85	187.31	193.40	200.18	207.64	214.72	221.03
Gasoline	1.85	1.58	1.44	1.38	1.31	1.23	1.17	1.12	1.08	1.05	1.04	1.04	1.04
Liquefied Petroleum Gas	0.02	0.03	0.03	0.05	0.06	0.09	0.10	0.13	0.14	0.16	0.18	0.19	0.20
Compressed Natural Gas	0.02	0.04	0.05	0.08	0.13	0.19	0.27	0.36	0.46	0.56	0.66	0.76	0.85
Heavy Subtotal	159.17	159.15	158.09	164.91	171.68	176.63	182.39	188.92	195.09	201.96	209.52	216.71	223.11
Total Vehicle Miles Traveled	207.34	205.66	203.61	211.74	219.47	224.79	231.29	238.85	246.05	254.25	263.40	272.14	279.97
Consumption (trillion Btu)													
Medium													
Diesel	490.80	488.07	482.98	501.97	519.22	530.86	546.30	565.19	584.10	606.03	630.63	654.37	676.09
Gasoline	233.98	208.42	195.64	193.40	187.71	179.14	172.28	166.49	160.71	156.09	152.69	149.66	146.90
Liquefied Petroleum Gas	8.96	7.78	7.03	6.60	6.15	5.72	5.48	5.40	5.45	5.62	5.83	6.06	6.26
Compressed Natural Gas	0.62	0.74	0.95	1.35	2.05	3.03	4.24	5.74	7.47	9.42	11.50	13.62	15.66
Medium Subtotal	734.36	705.01	686.61	703.32	715.12	718.75	728.30	742.83	757.74	777.15	800.65	823.72	844.90
Heavy													
Diesel	3606.13	3587.55	3547.49	3688.47	3830.69	3934.47	4060.10	4204.26	4341.11	4493.21	4658.28	4809.92	4936.88
Gasoline	33.44	28.40	25.69	24.64	23.32	21.82	20.66	19.75	18.98	18.47	18.20	18.04	17.95
Liquefied Petroleum Gas	0.35	0.46	0.61	0.82	1.13	1.48	1.82	2.17	2.51	2.83	3.11	3.34	3.51
Compressed Natural Gas	0.42	0.62	0.90	1.38	2.21	3.33	4.64	6.18	7.86	9.63	11.40	13.08	14.54
Heavy Subtotal	3640.34	3617.04	3574.69	3715.30	3857.36	3961.09	4087.22	4232.36	4370.45	4524.13	4690.99	4844.38	4972.88
Medium and Heavy Total													
Diesel	4096.93	4075.63	4030.47	4190.44	4349.90	4465.33	4606.40	4769.46	4925.21	5099.24	5288.92	5464.29	5612.96
Gasoline	267.43	236.82	221.34	218.04	211.03	200.96	192.93	186.25	179.69	174.56	170.89	167.71	164.86
Liquefied Petroleum Gas	9.31	8.24	7.64	7.42	7.28	7.20	7.30	7.57	7.96	8.44	8.94	9.40	9.76
Compressed Natural Gas	1.04	1.36	1.86	2.72	4.26	6.35	8.89	11.92	15.33	19.04	22.90	26.70	30.20
Total	4374.71	4322.05	4261.30	4418.62	4572.48	4679.84	4815.52	4975.20	5128.19	5301.28	5491.64	5668.10	5817.78
Fuel Efficiency (gasoline equivalent)													
Medium													
Diesel	8.19	8.26	8.30	8.33	8.35	8.37	8.39	8.40	8.41	8.42	8.42	8.43	8.43
Gasoline	8.40	8.42	8.44	8.46	8.48	8.51	8.52	8.54	8.57	8.59	8.61	8.63	8.66
Liquefied Petroleum Gas	6.16	6.20	6.26	6.33	6.43	6.54	6.64	6.75	6.86	6.97	7.07	7.16	7.24
Compressed Natural Gas	7.40	7.58	7.70	7.79	7.85	7.88	7.89	7.89	7.90	7.90	7.91	7.92	7.93
Medium Average	8.24	8.29	8.32	8.35	8.37	8.39	8.41	8.42	8.43	8.44	8.45	8.45	8.46
Heavy													
Diesel	5.46	5.49	5.52	5.54	5.56	5.57	5.57	5.57	5.57	5.57	5.57	5.58	5.60
Gasoline	6.91	6.95	6.99	7.02	7.05	7.07	7.09	7.10	7.12	7.14	7.16	7.19	7.22
Liquefied Petroleum Gas	6.60	6.84	6.97	7.06	7.13	7.18	7.20	7.22	7.23	7.24	7.25	7.25	7.26
Compressed Natural Gas	7.00	7.08	7.14	7.18	7.22	7.24	7.25	7.25	7.26	7.26	7.26	7.27	7.27
Heavy Average	5.47	5.50	5.53	5.55	5.57	5.58	5.58	5.58	5.58	5.58	5.59	5.60	5.61

Table 55. Freight Transportation Energy Use

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Average	5.93	5.95	5.98	5.99	6.00	6.01	6.01	6.00	6.00	6.00	6.00	6.01	6.02
Stock (millions)													
Medium													
Diesel	1.94	2.01	2.07	2.14	2.23	2.35	2.45	2.56	2.67	2.78	2.90	3.02	3.15
Gasoline	2.08	2.02	1.96	1.90	1.85	1.81	1.76	1.72	1.68	1.64	1.60	1.57	1.54
Liquefied Petroleum Gas	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Compressed Natural Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.07
Medium Subtotal	4.08	4.09	4.08	4.09	4.14	4.21	4.28	4.34	4.42	4.50	4.59	4.69	4.79
Heavy													
Diesel	4.06	4.16	4.24	4.32	4.47	4.64	4.81	4.98	5.15	5.33	5.53	5.73	5.93
Gasoline	0.39	0.37	0.34	0.32	0.30	0.28	0.27	0.25	0.24	0.23	0.21	0.21	0.20
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04
Heavy Subtotal	4.45	4.53	4.59	4.65	4.78	4.94	5.09	5.25	5.41	5.59	5.78	5.97	6.17
Total Stock	8.53	8.62	8.67	8.74	8.92	9.15	9.37	9.59	9.83	10.09	10.37	10.67	10.97
New Trucks by Size Class													
Fuel Efficiency (gasoline equivalent)													
Medium													
Diesel	8.79	8.79	8.67	8.59	8.52	8.50	8.48	8.48	8.48	8.47	8.47	8.46	8.46
Gasoline	9.02	9.02	8.99	8.97	8.94	8.92	8.90	8.89	8.91	8.92	8.95	8.96	8.98
Liquefied Petroleum Gas	8.03	8.03	8.01	7.99	7.97	7.96	7.95	7.94	7.95	7.97	7.98	7.99	8.00
Compressed Natural Gas	8.02	8.01	7.99	7.97	7.95	7.92	7.91	7.90	7.91	7.92	7.94	7.95	7.96
Medium Average	8.83	8.82	8.72	8.64	8.57	8.54	8.52	8.52	8.51	8.51	8.50	8.50	8.50
Heavy													
Diesel	5.77	5.77	5.76	5.68	5.63	5.61	5.59	5.58	5.58	5.59	5.61	5.65	5.72
Gasoline	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Liquefied Petroleum Gas	7.30	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
Compressed Natural Gas	7.28	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27
Heavy Average	5.77	5.78	5.76	5.69	5.64	5.62	5.60	5.59	5.59	5.60	5.62	5.67	5.73
Average	6.14	6.14	6.13	6.05	6.00	5.98	5.96	5.95	5.95	5.96	5.98	6.02	6.08
Sales (millions)													
Medium													
Diesel	0.17	0.13	0.12	0.13	0.16	0.18	0.18	0.19	0.20	0.21	0.22	0.23	0.23
Gasoline	0.05	0.04	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Medium Subtotal	0.22	0.17	0.15	0.16	0.21	0.24	0.23	0.24	0.25	0.27	0.28	0.29	0.30
Heavy													
Diesel	0.34	0.26	0.23	0.25	0.32	0.35	0.35	0.36	0.38	0.39	0.41	0.43	0.44
Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressed Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
Heavy Subtotal	0.35	0.26	0.24	0.25	0.33	0.36	0.36	0.37	0.39	0.41	0.42	0.44	0.45
Total Sales	0.57	0.43	0.39	0.42	0.54	0.60	0.59	0.61	0.64	0.67	0.70	0.73	0.75
Railroads													
Ton Miles by Rail (billion ton miles)	1389.71	1447.95	1404.14	1432.42	1453.67	1475.18	1520.88	1562.70	1592.79	1628.12	1669.37	1718.37	1749.28
Fuel Efficiency (ton miles per thousand Btu)	2.80	2.82	2.85	2.88	2.91	2.94	2.97	3.00	3.03	3.06	3.09	3.12	3.15
Fuel Consumption (trillion Btu)													

Table 55. Freight Transportation Energy Use

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Distillate (diesel)	497.15	512.81	492.32	497.21	499.54	501.86	512.23	521.06	525.78	532.07	540.09	550.39	554.68
Residual Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Domestic Shipping													
Ton Miles Shipping (billion ton miles)	646.87	787.73	775.06	786.30	795.92	802.73	823.22	836.90	850.10	861.95	874.43	888.91	901.94
Fuel Efficiency (ton miles per thousand Btu)	2.28	2.29	2.29	2.30	2.30	2.31	2.31	2.31	2.32	2.32	2.33	2.33	2.34
Fuel Consumption (trillion Btu)													
Distillate (diesel)	200.09	247.90	243.71	246.75	249.27	250.90	256.79	260.53	264.11	267.26	270.58	274.51	277.98
Residual Oil	83.34	96.69	94.68	95.86	96.84	97.47	99.76	101.22	102.61	103.83	105.12	106.65	108.00
Motor Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
International Shipping													
Gross Trade (billion 1996 dollars)	2163.75	2076.21	2094.19	2234.37	2371.22	2485.76	2653.33	2811.37	2975.71	3162.94	3364.01	3574.37	3801.73
Exports (billion 1996 dollars)	834.69	785.17	762.65	823.61	888.36	938.50	1018.73	1088.12	1171.87	1269.79	1372.77	1481.79	1595.16
Imports (billion 1996 dollars)	1329.07	1291.04	1331.54	1410.76	1482.86	1547.26	1634.59	1723.25	1803.85	1893.15	1991.23	2092.58	2206.57
Fuel Consumption (trillion Btu)													
Distillate (diesel)	54.52	53.36	49.96	51.83	51.90	51.96	52.04	52.12	52.19	52.27	52.34	52.42	52.49
Residual Oil	786.77	721.03	672.50	697.62	698.64	699.44	700.52	701.51	702.48	703.52	704.56	705.57	706.60

Table 55. Freight Transportation Energy Use

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Existing Trucks by Size Class														
Vehicle Miles Traveled (billion miles)														
Medium														
Diesel	46.68	48.13	49.47	50.79	52.28	53.87	55.59	57.16	58.76	60.55	62.33	64.28	65.98	3.1%
Gasoline	10.03	9.95	9.86	9.80	9.79	9.79	9.82	9.82	9.83	9.87	9.92	10.00	10.06	-1.4%
Liquefied Petroleum Gas	0.38	0.39	0.40	0.40	0.41	0.42	0.42	0.43	0.44	0.45	0.46	0.47	0.48	1.0%
Compressed Natural Gas	1.11	1.23	1.33	1.42	1.50	1.58	1.67	1.74	1.80	1.87	1.94	2.01	2.07	17.4%
Medium Subtotal	58.21	59.70	61.06	62.41	63.98	65.66	67.50	69.15	70.84	72.74	74.65	76.77	78.59	2.2%
Heavy														
Diesel	226.69	232.63	237.75	242.62	248.09	253.90	260.33	266.04	271.92	278.71	285.47	292.92	299.12	2.7%
Gasoline	1.04	1.05	1.05	1.06	1.08	1.09	1.11	1.13	1.15	1.18	1.20	1.23	1.26	-0.9%
Liquefied Petroleum Gas	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.23	0.23	9.6%
Compressed Natural Gas	0.91	0.97	1.01	1.04	1.06	1.09	1.11	1.14	1.16	1.19	1.22	1.25	1.27	16.1%
Heavy Subtotal	228.85	234.85	240.03	244.93	250.44	256.29	262.77	268.52	274.45	281.30	288.12	295.63	301.88	2.7%
Total Vehicle Miles Traveled	287.06	294.55	301.08	307.35	314.42	321.95	330.27	337.67	345.28	354.04	362.77	372.40	380.47	2.6%
Consumption (trillion Btu)														
Medium														
Diesel	696.31	718.02	737.88	757.58	779.71	803.25	828.84	852.12	875.93	902.45	928.88	957.84	983.07	3.0%
Gasoline	144.48	142.90	141.37	140.14	139.61	139.38	139.47	139.15	138.99	139.26	139.64	140.55	141.09	-1.6%
Liquefied Petroleum Gas	6.41	6.54	6.62	6.68	6.76	6.84	6.94	7.02	7.11	7.24	7.40	7.58	7.75	0.0%
Compressed Natural Gas	17.55	19.31	20.87	22.27	23.61	24.89	26.16	27.28	28.34	29.44	30.51	31.62	32.55	17.1%
Medium Subtotal	864.75	886.78	906.74	926.67	949.69	974.37	1001.42	1025.57	1050.37	1078.39	1106.43	1137.59	1164.47	2.1%
Heavy														
Diesel	5041.72	5143.75	5219.25	5283.47	5358.80	5437.66	5529.05	5607.92	5694.15	5803.00	5915.11	6045.39	6153.24	2.3%
Gasoline	17.91	17.98	18.05	18.16	18.35	18.60	18.91	19.18	19.49	19.89	20.31	20.81	21.25	-1.2%
Liquefied Petroleum Gas	3.61	3.66	3.66	3.63	3.61	3.59	3.60	3.62	3.66	3.72	3.80	3.89	3.96	9.3%
Compressed Natural Gas	15.74	16.71	17.40	17.90	18.32	18.72	19.18	19.59	20.01	20.52	21.00	21.48	21.79	16.0%
Heavy Subtotal	5078.99	5182.10	5258.37	5323.16	5399.08	5478.57	5570.73	5650.31	5737.30	5847.13	5960.23	6091.58	6200.24	2.3%
Medium and Heavy Total														
Diesel	5738.04	5861.77	5957.13	6041.05	6138.51	6240.91	6357.89	6460.04	6570.08	6705.45	6843.99	7003.23	7136.32	2.4%
Gasoline	162.39	160.88	159.42	158.30	157.96	157.98	158.37	158.33	158.49	159.16	159.95	161.37	162.34	-1.6%
Liquefied Petroleum Gas	10.02	10.20	10.28	10.31	10.36	10.43	10.54	10.64	10.76	10.96	11.20	11.48	11.70	1.5%
Compressed Natural Gas	33.29	36.02	38.27	40.17	41.93	43.62	45.34	46.87	48.34	49.96	51.51	53.10	54.35	16.6%
Total	5943.74	6068.88	6165.11	6249.83	6348.77	6452.93	6572.15	6675.88	6787.67	6925.52	7066.66	7229.17	7364.71	2.2%
Fuel Efficiency (gasoline equivalent)														
Medium														
Diesel	8.44	8.44	8.44	8.44	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45	0.1%
Gasoline	8.68	8.70	8.73	8.75	8.78	8.80	8.83	8.85	8.88	8.90	8.92	8.94	8.96	0.3%
Liquefied Petroleum Gas	7.32	7.38	7.43	7.48	7.52	7.56	7.60	7.63	7.66	7.69	7.72	7.75	7.77	0.9%
Compressed Natural Gas	7.93	7.94	7.94	7.94	7.95	7.95	7.95	7.95	7.95	7.95	7.95	7.95	7.95	0.2%
Medium Average	8.46	8.47	8.47	8.48	8.48	8.48	8.49	8.49	8.49	8.50	8.50	8.50	8.50	0.1%
Heavy														
Diesel	5.62	5.66	5.70	5.74	5.79	5.84	5.89	5.93	5.97	6.01	6.04	6.06	6.08	0.4%
Gasoline	7.24	7.27	7.29	7.31	7.33	7.35	7.36	7.38	7.39	7.40	7.41	7.42	7.43	0.3%
Liquefied Petroleum Gas	7.26	7.26	7.26	7.26	7.26	7.26	7.27	7.27	7.27	7.27	7.27	7.27	7.27	0.3%
Compressed Natural Gas	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	0.1%
Heavy Average	5.64	5.67	5.71	5.75	5.80	5.85	5.90	5.94	5.98	6.02	6.05	6.07	6.09	0.4%

Table 55. Freight Transportation Energy Use

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Average	6.04	6.07	6.11	6.15	6.19	6.24	6.29	6.33	6.36	6.39	6.42	6.44	6.46	0.3%
Stock (millions)														
Medium														
Diesel	3.27	3.39	3.50	3.61	3.72	3.82	3.93	4.05	4.16	4.28	4.41	4.52	4.63	3.5%
Gasoline	1.51	1.48	1.45	1.43	1.40	1.38	1.36	1.34	1.33	1.32	1.31	1.30	1.29	-1.9%
Liquefied Petroleum Gas	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.2%
Compressed Natural Gas	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.14	0.15	0.16	0.17	0.18	0.19	15.4%
Medium Subtotal	4.90	5.00	5.10	5.19	5.28	5.37	5.47	5.58	5.69	5.81	5.93	6.05	6.15	1.7%
Heavy														
Diesel	6.13	6.32	6.50	6.67	6.83	6.99	7.15	7.32	7.49	7.68	7.85	8.02	8.17	2.9%
Gasoline	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	-3.5%
Liquefied Petroleum Gas	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	7.6%
Compressed Natural Gas	0.04	0.05	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.10	15.9%
Heavy Subtotal	6.37	6.56	6.75	6.92	7.08	7.24	7.40	7.58	7.75	7.94	8.12	8.29	8.45	2.6%
Total Stock	11.27	11.56	11.84	12.11	12.35	12.61	12.87	13.16	13.44	13.75	14.05	14.34	14.60	2.2%
New Trucks by Size Class														
Fuel Efficiency (gasoline equivalent)														
Medium														
Diesel	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	-0.2%
Gasoline	9.00	9.03	9.06	9.10	9.13	9.16	9.18	9.20	9.20	9.20	9.20	9.20	9.20	0.1%
Liquefied Petroleum Gas	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	0.0%
Compressed Natural Gas	7.96	7.96	7.96	7.96	7.96	7.96	7.96	7.96	7.96	7.96	7.96	7.96	7.96	0.0%
Medium Average	8.50	8.51	8.51	8.51	8.51	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.52	-0.1%
Heavy														
Diesel	5.80	5.89	5.99	6.07	6.12	6.18	6.21	6.21	6.21	6.21	6.21	6.21	6.21	0.3%
Gasoline	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	0.0%
Liquefied Petroleum Gas	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	0.0%
Compressed Natural Gas	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	0.0%
Heavy Average	5.81	5.90	6.01	6.09	6.13	6.19	6.22	6.22	6.22	6.22	6.22	6.23	6.23	0.3%
Average	6.15	6.24	6.33	6.41	6.45	6.51	6.54	6.54	6.54	6.54	6.54	6.54	6.54	0.3%
Sales (millions)														
Medium														
Diesel	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.26	0.27	0.28	0.28	0.28	0.28	3.3%
Gasoline	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1.3%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.6%
Compressed Natural Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	12.3%
Medium Subtotal	0.30	0.30	0.30	0.30	0.30	0.31	0.32	0.33	0.34	0.35	0.35	0.35	0.35	3.1%
Heavy														
Diesel	0.44	0.44	0.44	0.44	0.44	0.44	0.46	0.48	0.48	0.50	0.51	0.51	0.51	2.8%
Gasoline	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.9%
Liquefied Petroleum Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.0%
Compressed Natural Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	11.5%
Heavy Subtotal	0.46	0.46	0.46	0.45	0.45	0.46	0.47	0.49	0.50	0.52	0.53	0.52	0.52	2.9%
Total Sales	0.76	0.76	0.76	0.75	0.75	0.76	0.79	0.82	0.83	0.87	0.88	0.88	0.87	3.0%
Railroads														
Ton Miles by Rail (billion ton miles)	1776.22	1803.81	1832.67	1867.72	1899.94	1928.32	1962.61	1990.74	2014.97	2048.92	2083.44	2117.12	2154.56	1.7%
Fuel Efficiency (ton miles per thousand Btu)	3.19	3.22	3.25	3.28	3.32	3.35	3.38	3.42	3.45	3.49	3.52	3.56	3.59	1.0%
Fuel Consumption (trillion Btu)														

Table 55. Freight Transportation Energy Use

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Distillate (diesel)	557.59	560.59	563.87	568.90	572.93	575.67	580.05	582.48	583.67	587.57	591.50	595.05	599.52	0.7%
Residual Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Domestic Shipping														
Ton Miles Shipping (billion ton miles)	912.30	925.01	937.39	948.06	960.57	976.89	995.53	1009.17	1023.60	1042.30	1056.10	1072.43	1086.86	1.4%
Fuel Efficiency (ton miles per thousand Btu)	2.34	2.35	2.35	2.36	2.36	2.37	2.37	2.38	2.38	2.39	2.39	2.39	2.40	0.2%
Fuel Consumption (trillion Btu)														
Distillate (diesel)	280.61	283.95	287.18	289.87	293.10	297.49	302.56	306.09	309.84	314.87	318.40	322.68	326.37	1.2%
Residual Oil	109.02	110.32	111.57	112.61	113.87	115.58	117.54	118.92	120.38	122.33	123.70	125.36	126.80	1.1%
Motor Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
International Shipping														
Gross Trade (billion 1996 dollars)	4054.76	4327.57	4611.41	4900.22	5209.90	5561.70	5948.26	6339.18	6731.86	7166.31	7641.17	8143.85	8656.50	6.1%
Exports (billion 1996 dollars)	1716.79	1845.48	1977.27	2115.69	2273.34	2452.63	2638.58	2827.04	3025.82	3243.95	3476.90	3719.09	3985.48	7.0%
Imports (billion 1996 dollars)	2337.97	2482.09	2634.14	2784.52	2936.56	3109.06	3309.68	3512.14	3706.04	3922.36	4164.27	4424.75	4671.02	5.5%
Fuel Consumption (trillion Btu)														
Distillate (diesel)	52.58	52.66	52.74	52.82	52.90	52.98	53.07	53.15	53.23	53.32	53.41	53.49	53.58	0.0%
Residual Oil	707.69	708.79	709.87	710.92	712.00	713.14	714.33	715.47	716.56	717.70	718.86	720.03	721.16	0.0%

Table 55. Freight Transportation Energy Use

Btu = British thermal unit.

N/A = Not applicable.

Sources: 2001 derived using: Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 22 and Annual (Oak Ridge, TN, September 2002); United States Department of Transportation, 1989 Carload Waybill Statistics Traffic and Revenue by Commodity Classes, September 1991 and prior issues; Reebie Associates, TRANSEARCH Database, (Greenwich, Connecticut, 1989); Army Corps of Engineers, Waterborne Commerce of the United States, (New Orleans), 1991 and prior issues; U.S. Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Federal Highway Administration, Highway Statistics 2000 (Washington, DC, November 2001); and Energy Information Administration (EIA), AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 56. Technology Market Penetration in Light-Duty Vehicles
(Percentage)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Car													
Unit Body Construction	93.41	92.95	92.97	93.72	93.29	93.31	93.41	93.36	93.36	93.40	93.36	93.30	93.35
Material Substitution II	49.96	49.97	49.97	49.95	49.97	49.96	49.94	49.94	49.93	49.93	49.92	49.92	49.91
Material Substitution III	0.00	0.04	0.24	0.47	0.78	1.22	2.12	2.78	3.03	3.56	4.35	4.73	5.28
Material Substitution IV	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.12	0.26	0.47	0.75	1.03	1.35
Material Substitution V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drag Reduction II	54.27	54.51	54.37	54.03	54.27	54.20	54.52	54.52	54.52	54.50	54.49	54.50	53.86
Drag Reduction III	0.15	0.22	0.61	1.01	1.57	2.42	4.77	6.90	7.50	9.00	11.56	12.72	14.45
Drag Reduction IV	0.00	0.00	0.06	0.21	0.52	0.97	2.05	3.11	3.63	4.55	5.91	6.78	7.79
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.17	0.42
Roll-Over Technology	0.00	0.00	0.00	0.00	0.00	25.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	0.00	0.00	0.00	0.00	25.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	5.83	7.23	11.11	11.13	11.89	13.87	23.15	28.88	30.80	33.91	37.85	39.80	42.88
Early Torque Converter Lockup	0.00	0.00	0.12	0.38	1.02	2.06	5.35	9.11	10.75	13.72	17.89	20.09	21.71
Aggressive Shift Logic	2.94	2.98	3.02	3.06	3.20	3.44	3.97	4.51	4.73	5.16	5.82	6.16	6.60
4-Speed Automatic	70.97	71.65	71.44	70.24	70.77	70.41	69.74	69.27	68.71	67.72	66.28	64.94	62.90
5-Speed Automatic	7.84	7.95	7.96	7.84	8.00	8.11	8.23	8.36	8.45	8.55	8.67	8.75	8.84
6-Speed Automatic	0.00	0.00	0.00	0.00	0.02	0.10	0.24	0.40	0.57	0.77	0.99	1.23	1.45
6-Speed Manual	0.98	0.99	1.10	1.18	1.31	1.52	1.91	2.20	2.38	2.64	2.88	2.99	3.11
CVT	0.04	0.06	0.16	0.29	0.46	0.72	1.14	1.48	1.71	2.06	2.50	2.74	3.06
Automated Manual Trans	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.13	0.39	0.93	2.01	3.31	5.27
Roller Cam	84.82	87.09	93.16	93.03	93.15	93.17	93.27	93.32	93.34	93.37	93.42	93.44	93.45
OHC/AdvOHV-4 Cylinder	3.56	3.51	3.50	3.58	3.54	3.53	3.54	3.54	3.53	3.54	3.54	3.53	3.54
OHC/AdvOHV-6 Cylinder	5.12	5.20	5.20	4.99	4.97	4.78	4.53	4.29	4.09	3.93	3.82	3.75	3.72
OHC/AdvOHV-8 Cylinder	3.03	3.20	3.19	2.92	3.07	3.07	3.03	3.04	3.04	3.02	3.03	3.04	3.02
4-Valve/4-Cylinder	48.13	46.88	47.09	49.03	47.81	47.91	48.20	48.08	48.08	48.20	48.11	47.92	48.05
4-Valve/6-Cylinder	23.42	23.51	22.86	22.12	22.71	22.85	22.96	23.25	23.45	23.56	23.71	23.86	23.84
4-Valve/8-Cylinder	8.43	8.79	8.77	8.26	8.66	8.80	8.90	9.11	9.26	9.29	9.32	9.36	9.33
5-Valve/6-Cylinder	1.17	1.63	2.18	2.14	2.18	2.19	2.18	2.19	2.19	2.19	2.19	2.20	2.20
VVT-4 Cylinder	14.27	17.32	22.10	26.76	32.21	37.37	41.91	45.46	46.89	48.04	48.70	48.54	48.75
VVT-6 Cylinder	3.34	3.44	3.59	3.56	3.92	4.31	4.76	5.32	5.73	6.03	6.33	6.49	6.62
VVT-8 Cylinder	0.40	0.48	0.69	0.89	1.35	1.59	1.89	2.19	2.37	2.50	2.65	2.72	2.75
VVL-4 Cylinder	6.58	6.53	6.54	6.73	6.83	7.14	7.52	7.97	8.31	8.57	8.77	8.90	8.96
VVL-6 Cylinder	0.39	0.40	0.54	0.78	1.10	1.51	1.92	2.32	2.64	2.93	3.19	3.34	3.46
VVL-8 Cylinder	1.09	1.16	1.27	1.32	1.56	1.74	1.92	2.08	2.13	2.12	2.11	2.09	2.04
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.11	0.25	0.44
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.11	0.24	0.42	0.66
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.21	0.35	0.52	0.70
Cylinder Deactivation	0.00	0.00	0.00	0.00	0.02	0.14	0.36	0.64	0.91	1.23	1.47	1.67	1.90
Turbocharging/Supercharging	0.00	0.03	0.13	0.28	0.49	0.74	0.98	1.23	1.44	1.65	1.84	1.96	2.07
Engine Friction Reduction I	65.93	67.05	69.38	69.47	69.41	69.40	69.23	69.14	69.11	69.06	68.81	68.58	68.19
Engine Friction Reduction II	19.10	19.39	19.79	19.93	21.27	22.44	23.86	25.10	25.43	26.03	27.43	27.58	27.94
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.19	0.53	0.97	1.58
Engine Friction Reduction IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stoichiometric GDI/4-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.11	0.26	0.45	0.70	0.96	1.24
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.11	0.24	0.41	0.64	0.88	1.13
Lean Burn GDI	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.13	0.30	0.53	0.86	1.17	1.52
5W-30 Engine Oil	40.10	40.31	40.31	39.96	40.16	40.15	40.10	40.11	40.10	40.06	40.05	40.06	40.01
5W-20 Engine Oil	0.00	0.00	0.00	0.05	0.24	0.69	1.89	3.49	4.51	6.12	8.59	10.29	12.57
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric Power Steering	0.00	0.00	0.00	0.00	0.03	0.15	0.42	0.81	1.26	1.87	2.70	3.42	4.35
Improved Alternator	0.00	0.00	0.00	0.00	0.00	0.03	0.14	0.32	0.53	0.83	1.19	1.50	1.85
Improved Oil/Water Pump	0.00	0.07	0.43	0.84	1.42	2.28	4.70	6.88	7.49	9.03	11.66	12.83	14.58
Electric Oil/Water Pump	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.11	0.26	0.47	0.73	1.03
Tires II	52.59	53.02	53.03	52.35	52.76	52.73	52.87	53.08	53.06	52.99	52.98	53.00	52.91

**Table 56. Technology Market Penetration in Light-Duty Vehicles
(Percentage)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Tires III	0.00	0.00	0.00	0.00	0.00	0.05	0.28	0.86	1.54	2.66	4.32	5.78	7.63
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Front Wheel Drive	82.60	82.68	82.70	82.56	82.62	82.63	82.63	82.64	82.64	82.64	82.64	82.65	82.64
Four Wheel Drive Improvements	0.00	0.02	0.13	0.24	0.38	0.54	0.81	1.07	1.15	1.28	1.45	1.49	1.57
42V-Launch Assist and Regen	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.20	0.34	0.52	0.71	0.89
42V-Engine Off at Idle	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.20	0.34	0.52	0.71	0.89	1.08
Tier 2 Emissions Technology	0.00	0.00	0.00	0.00	0.00	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	0.00	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00
Variable Compression Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Light Truck													
Unit Body Construction	19.23	18.76	19.08	19.89	19.46	19.72	20.22	20.53	20.56	20.82	21.14	21.11	21.30
Material Substitution II	30.41	30.50	30.43	30.38	30.54	30.60	30.71	31.05	31.12	31.28	31.55	31.71	31.89
Material Substitution III	0.00	0.00	0.05	0.14	0.33	0.61	1.26	1.84	2.16	2.66	3.35	3.81	4.35
Material Substitution IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.20
Material Substitution V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drag Reduction II	32.53	32.46	36.36	36.61	36.66	37.03	44.92	47.84	48.06	48.94	50.42	50.90	51.48
Drag Reduction III	0.00	0.11	0.61	1.19	2.11	3.77	9.08	14.28	16.06	19.25	23.42	24.98	28.10
Drag Reduction IV	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.23	0.60	1.29	2.60	4.03	5.89
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Roll-Over Technology	0.00	0.00	0.00	0.00	0.00	0.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	0.00	0.00	0.00	0.00	0.00	50.00	75.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	0.00	0.00	0.00	0.00	0.00	0.13	0.88	3.62	7.28	13.14	19.97	25.97	31.28
Early Torque Converter Lockup	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.50	1.52	3.74	8.34	13.33	18.70
Aggressive Shift Logic	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.17	0.43	0.88	1.68	2.50	3.51
4-Speed Automatic	83.86	83.57	83.57	83.97	83.62	83.57	83.46	83.30	83.19	82.99	82.68	82.38	82.02
5-Speed Automatic	5.97	6.07	6.17	6.10	6.29	6.49	6.92	7.05	7.20	7.39	7.65	7.80	7.98
6-Speed Automatic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.20	0.36	0.60
6-Speed Manual	0.00	0.02	0.11	0.22	0.37	0.59	0.96	1.27	1.44	1.71	2.08	2.29	2.56
CVT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.06	0.12	0.19
Automated Manual Trans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.14
Roller Cam	77.30	78.89	80.98	82.74	84.55	86.24	88.92	90.92	92.40	94.42	96.47	97.29	98.16
OHC/AdvOHV-4 Cylinder	3.16	2.95	2.89	2.66	2.73	2.57	2.34	2.30	2.26	2.24	2.25	2.27	2.20
OHC/AdvOHV-6 Cylinder	39.04	40.21	40.28	40.55	40.12	40.16	39.85	39.71	39.60	39.44	39.11	38.89	38.73
OHC/AdvOHV-8 Cylinder	25.26	25.29	25.21	25.10	25.11	24.93	24.88	24.68	24.59	24.45	24.32	24.24	24.09
4-Valve/4-Cylinder	6.35	6.78	6.78	6.67	6.82	6.96	7.06	7.18	7.22	7.24	7.24	7.26	7.30
4-Valve/6-Cylinder	8.05	8.10	8.18	8.27	8.54	8.98	9.42	9.85	10.07	10.43	10.92	11.22	11.59
4-Valve/8-Cylinder	3.55	3.58	3.65	3.74	3.89	4.15	4.37	4.59	4.74	4.96	5.23	5.42	5.69
5-Valve/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VVT-4 Cylinder	0.00	0.27	1.34	2.76	5.19	6.69	7.54	8.37	8.68	9.41	9.49	9.53	9.50
VVT-6 Cylinder	0.00	0.06	0.21	0.41	0.78	1.33	2.27	3.13	3.50	4.19	5.08	5.50	6.13
VVT-8 Cylinder	0.00	0.05	0.16	0.27	0.48	0.83	1.48	2.09	2.35	2.86	3.61	4.04	4.62
VVL-4 Cylinder	0.00	0.00	0.04	0.09	0.26	0.49	0.90	1.33	1.59	1.96	2.44	2.77	3.10
VVL-6 Cylinder	0.00	0.04	0.15	0.28	0.54	0.90	1.39	1.82	2.09	2.49	2.99	3.29	3.69
VVL-8 Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.17	0.30	0.49	0.68	0.88
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.06
Cylinder Deactivation	0.00	0.00	0.00	0.00	0.03	0.10	0.27	0.52	0.85	1.30	1.89	2.37	2.95
Turbocharging/Supercharging	0.00	0.02	0.07	0.15	0.27	0.43	0.59	0.75	0.88	1.03	1.19	1.30	1.43
Engine Friction Reduction I	39.84	45.36	55.45	55.27	56.05	59.25	71.19	72.97	72.35	71.66	70.23	68.30	64.92
Engine Friction Reduction II	0.00	0.13	0.75	1.48	2.66	4.80	11.48	17.59	19.80	22.58	27.58	29.46	33.06
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.20	0.59
Engine Friction Reduction IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stoichiometric GDI/4-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.15	0.27	0.46
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.20
Lean Burn GDI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.10	0.24
5W-30 Engine Oil	37.13	37.19	38.00	37.91	37.95	37.85	40.01	40.69	40.64	40.46	40.47	40.33	40.11
5W-20 Engine Oil	0.00	0.00	0.00	0.08	0.28	0.87	2.92	6.34	8.84	12.74	18.35	21.31	24.87

**Table 56. Technology Market Penetration in Light-Duty Vehicles
(Percentage)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric Power Steering	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.28	0.53	0.96	1.59	2.22	3.06
Improved Alternator	0.00	0.00	0.00	0.00	0.00	0.03	0.12	0.30	0.52	0.89	1.34	1.73	2.19
Improved Oil/Water Pump	0.00	0.11	0.61	1.20	2.13	3.81	9.18	14.41	16.20	19.10	23.52	25.14	28.01
Electric Oil/Water Pump	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.10	0.23	0.43	0.73
Tires II	35.57	36.18	44.75	44.90	44.86	46.52	58.94	62.78	62.78	63.23	64.93	64.90	64.84
Tires III	0.00	0.00	0.00	0.00	0.00	0.07	0.33	1.14	2.29	4.50	8.25	11.61	15.96
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Front Wheel Drive	16.01	15.25	15.47	16.64	15.81	15.94	15.79	15.96	15.97	16.11	16.05	15.93	16.00
Four Wheel Drive Improvements	0.00	0.03	0.13	0.26	0.46	0.78	1.34	1.94	2.23	2.70	3.31	3.65	4.12
42V-Launch Assist and Regen	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.17	0.29	0.47	0.66	0.85
42V-Engine Off at Idle	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.17	0.29	0.47	0.66	0.85	1.04
Tier 2 Emissions Technology	0.00	0.00	0.00	0.00	0.00	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	0.00	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00
Variable Compression Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Light-Duty Vehicle Total													
Unit Body Construction	58.97	58.44	58.52	58.93	58.19	58.05	58.12	58.05	57.90	57.91	57.93	57.79	57.82
Material Substitution II	40.88	40.92	40.86	40.73	40.73	40.68	40.67	40.78	40.77	40.81	40.91	40.96	41.02
Material Substitution III	0.00	0.02	0.15	0.31	0.56	0.93	1.70	2.32	2.61	3.12	3.86	4.28	4.82
Material Substitution IV	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.14	0.24	0.39	0.57	0.79
Material Substitution V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drag Reduction II	44.18	44.25	45.97	45.82	45.90	45.97	49.89	51.28	51.37	51.78	52.49	52.73	52.68
Drag Reduction III	0.08	0.17	0.61	1.09	1.83	3.06	6.85	10.47	11.67	14.01	17.38	18.75	21.18
Drag Reduction IV	0.00	0.00	0.03	0.11	0.27	0.50	1.09	1.71	2.16	2.96	4.29	5.43	6.85
Drag Reduction V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.22
Roll-Over Technology	0.00	0.00	0.00	0.00	0.00	13.02	50.00	75.00	100.00	100.00	100.00	100.00	100.00
Side Impact Technology	0.00	0.00	0.00	0.00	0.00	13.02	50.00	75.00	100.00	100.00	100.00	100.00	100.00
Advanced Low Loss Torque Converter	3.12	3.87	5.93	5.88	6.24	7.29	12.41	16.63	19.34	23.75	29.08	33.00	37.16
Early Torque Converter Lockup	0.00	0.00	0.06	0.20	0.54	1.07	2.83	4.94	6.25	8.84	13.21	16.76	20.23
Aggressive Shift Logic	1.57	1.59	1.61	1.62	1.68	1.79	2.08	2.41	2.64	3.07	3.79	4.36	5.08
4-Speed Automatic	76.95	77.19	77.09	76.71	76.88	76.72	76.36	76.07	75.76	75.19	74.32	73.52	72.33
5-Speed Automatic	6.97	7.07	7.12	7.02	7.19	7.33	7.60	7.73	7.84	7.98	8.17	8.29	8.42
6-Speed Automatic	0.00	0.00	0.00	0.00	0.01	0.05	0.12	0.21	0.30	0.43	0.60	0.80	1.03
6-Speed Manual	0.52	0.54	0.64	0.73	0.86	1.07	1.45	1.75	1.92	2.19	2.49	2.64	2.84
CVT	0.02	0.03	0.09	0.15	0.24	0.38	0.59	0.76	0.88	1.07	1.30	1.45	1.65
Automated Manual Trans	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.20	0.48	1.03	1.70	2.74
Roller Cam	81.33	83.28	87.48	88.18	89.06	89.85	91.17	92.16	92.88	93.88	94.92	95.34	95.77
OHC/AdvOHV-4 Cylinder	3.37	3.25	3.21	3.15	3.16	3.07	2.96	2.94	2.91	2.91	2.91	2.91	2.88
OHC/AdvOHV-6 Cylinder	20.87	21.49	21.56	21.75	21.69	21.73	21.56	21.47	21.39	21.29	21.13	21.04	20.98
OHC/AdvOHV-8 Cylinder	13.35	13.47	13.45	13.37	13.55	13.54	13.57	13.53	13.53	13.49	13.47	13.47	13.41
4-Valve/4-Cylinder	28.73	28.22	28.29	29.07	28.32	28.29	28.36	28.25	28.18	28.17	28.06	27.92	27.96
4-Valve/6-Cylinder	16.28	16.34	16.01	15.59	15.98	16.20	16.43	16.76	16.93	17.14	17.44	17.64	17.80
4-Valve/8-Cylinder	6.16	6.36	6.38	6.13	6.39	6.57	6.71	6.92	7.06	7.17	7.31	7.42	7.54
5-Valve/6-Cylinder	0.63	0.87	1.16	1.13	1.15	1.14	1.13	1.13	1.12	1.12	1.12	1.12	1.11
VVT-4 Cylinder	7.65	9.38	12.42	15.45	19.36	22.67	25.33	27.48	28.28	29.15	29.47	29.35	29.40
VVT-6 Cylinder	1.79	1.87	2.02	2.07	2.43	2.88	3.56	4.26	4.64	5.13	5.71	6.00	6.38
VVT-8 Cylinder	0.21	0.28	0.44	0.60	0.94	1.23	1.69	2.14	2.36	2.68	3.12	3.37	3.67
VVL-4 Cylinder	3.52	3.49	3.51	3.60	3.71	3.95	4.33	4.75	5.04	5.34	5.66	5.88	6.07
VVL-6 Cylinder	0.21	0.24	0.36	0.54	0.83	1.21	1.66	2.08	2.37	2.72	3.09	3.31	3.57
VVL-8 Cylinder	0.58	0.62	0.68	0.70	0.82	0.91	1.01	1.11	1.17	1.23	1.31	1.40	1.46
Camless Valve Actuation-4cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.13	0.22
Camless Valve Actuation-6cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.12	0.21	0.35
Camless Valve Actuation-8cyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.11	0.18	0.27	0.39
Cylinder Deactivation	0.00	0.00	0.00	0.00	0.03	0.12	0.32	0.58	0.88	1.26	1.68	2.01	2.42
Turbocharging/Supercharging	0.00	0.02	0.11	0.22	0.39	0.59	0.79	0.99	1.17	1.35	1.52	1.63	1.75
Engine Friction Reduction I	53.82	56.96	62.88	62.78	63.06	64.54	70.17	71.00	70.69	70.34	69.51	68.44	66.58
Engine Friction Reduction II	10.23	10.43	10.91	11.24	12.42	13.98	17.89	21.46	22.69	24.34	27.50	28.51	30.46
Engine Friction Reduction III	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.30	0.59	1.10

**Table 56. Technology Market Penetration in Light-Duty Vehicles
(Percentage)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Engine Friction Reduction IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stoichiometric GDI/4-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.14	0.26	0.43	0.85
Stoichiometric GDI/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.12	0.21	0.34	0.49	0.67
Lean Burn GDI	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.15	0.27	0.45	0.64	0.89
5W-30 Engine Oil	38.72	38.86	39.23	39.00	39.11	39.05	40.06	40.39	40.37	40.26	40.26	40.19	40.06
5W-20 Engine Oil	0.00	0.00	0.00	0.07	0.26	0.78	2.38	4.87	6.62	9.36	13.38	15.71	18.64
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electric Power Steering	0.00	0.00	0.00	0.00	0.02	0.09	0.27	0.56	0.90	1.42	2.16	2.83	3.71
Improved Alternator	0.00	0.00	0.00	0.00	0.00	0.03	0.13	0.31	0.53	0.86	1.26	1.61	2.02
Improved Oil/Water Pump	0.00	0.09	0.51	1.01	1.76	3.01	6.86	10.53	11.73	13.95	17.48	18.89	21.20
Electric Oil/Water Pump	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.18	0.35	0.58	0.88
Tires II	44.68	45.19	49.17	48.84	49.00	49.76	55.80	57.78	57.80	58.00	58.84	58.85	58.79
Tires III	0.00	0.00	0.00	0.00	0.00	0.06	0.30	1.00	1.90	3.56	6.25	8.65	11.74
Tires IV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Front Wheel Drive	51.68	51.31	51.35	51.49	50.86	50.68	50.40	50.31	50.17	50.11	49.98	49.82	49.78
Four Wheel Drive Improvements	0.00	0.02	0.13	0.25	0.42	0.65	1.06	1.49	1.68	1.97	2.36	2.56	2.83
42V-Launch Assist and Regen	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.19	0.32	0.50	0.69	0.87
42V-Engine Off at Idle	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.19	0.32	0.50	0.69	0.87	1.06
Tier 2 Emissions Technology	0.00	0.00	0.00	0.00	0.00	0.00	33.33	66.67	100.00	100.00	100.00	100.00	100.00
Increased Size/Weight	0.00	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00
Variable Compression Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Table 56. Technology Market Penetration in Light-Duty Vehicles
(Percentage)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Car														
Unit Body Construction	93.33	93.37	93.36	93.39	93.45	93.39	93.38	93.38	93.37	93.40	93.43	93.41	93.51	0.0%
Material Substitution II	49.90	49.89	49.89	49.88	49.87	49.87	49.87	49.86	49.86	49.85	49.85	49.85	49.84	0.0%
Material Substitution III	5.77	6.10	6.26	6.42	6.55	6.55	6.55	6.56	6.61	6.62	6.65	6.65	6.65	23.4%
Material Substitution IV	1.69	2.02	2.36	2.65	2.94	3.16	3.39	3.53	3.69	3.81	3.85	3.87	3.87	N/A
Material Substitution V	0.00	0.02	0.11	0.24	0.41	0.64	0.88	1.13	1.40	1.67	1.95	2.18	2.41	N/A
Drag Reduction II	53.05	52.39	51.88	51.53	51.17	50.87	50.59	50.31	50.01	49.81	49.61	49.54	49.46	-0.4%
Drag Reduction III	16.19	17.23	17.60	17.77	17.89	17.91	17.92	17.97	18.06	18.08	18.10	18.11	18.07	20.1%
Drag Reduction IV	8.91	9.50	10.15	10.48	10.77	11.00	11.02	11.15	11.30	11.34	11.40	11.41	11.39	N/A
Drag Reduction V	0.79	1.28	1.83	2.41	3.02	3.65	4.31	4.95	5.61	6.11	6.60	6.83	7.01	N/A
Roll-Over Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Side Impact Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Advanced Low Loss Torque Converter	46.52	49.27	50.34	51.68	52.66	52.71	52.72	52.99	53.50	53.61	53.78	53.80	53.73	8.7%
Early Torque Converter Lockup	24.69	26.41	27.84	28.49	29.01	29.50	29.55	29.94	30.42	30.56	30.77	30.79	30.71	N/A
Aggressive Shift Logic	7.09	7.46	7.64	7.82	7.96	7.97	7.97	8.00	8.06	8.07	8.09	8.09	8.08	4.3%
4-Speed Automatic	61.55	60.50	58.97	58.58	58.17	58.19	58.05	57.91	57.82	57.72	57.59	57.61	57.41	-0.9%
5-Speed Automatic	8.96	9.06	9.10	9.16	9.19	9.19	9.17	9.18	9.19	9.18	9.17	9.18	9.16	0.6%
6-Speed Automatic	1.69	1.84	2.00	2.09	2.19	2.23	2.36	2.43	2.46	2.46	2.46	2.46	2.45	N/A
6-Speed Manual	3.20	3.27	3.30	3.33	3.36	3.36	3.35	3.36	3.36	3.36	3.37	3.37	3.38	5.2%
CVT	3.58	3.80	3.93	4.06	4.16	4.17	4.19	4.26	4.34	4.38	4.43	4.45	4.46	19.7%
Automated Manual Trans	7.02	8.85	10.11	10.18	10.30	10.29	10.31	10.31	10.30	10.33	10.36	10.34	10.44	N/A
Roller Cam	93.46	93.45	93.45	93.45	93.44	93.45	93.45	93.45	93.45	93.45	93.44	93.45	93.43	0.3%
OHC/AdvOHV-4 Cylinder	3.54	3.54	3.54	3.54	3.55	3.54	3.54	3.54	3.55	3.55	3.55	3.55	3.56	0.1%
OHC/AdvOHV-6 Cylinder	3.69	3.68	3.68	3.67	3.65	3.67	3.68	3.68	3.68	3.67	3.66	3.67	3.63	-1.5%
OHC/AdvOHV-8 Cylinder	3.03	3.01	3.01	3.00	2.98	3.00	3.00	3.00	3.00	2.99	2.98	2.99	2.95	-0.3%
4-Valve/4-Cylinder	47.99	48.12	48.08	48.15	48.33	48.16	48.11	48.11	48.08	48.16	48.26	48.20	48.48	0.1%
4-Valve/6-Cylinder	23.89	23.85	23.86	23.83	23.77	23.83	23.85	23.85	23.86	23.83	23.80	23.82	23.72	0.0%
4-Valve/8-Cylinder	9.35	9.32	9.33	9.32	9.27	9.31	9.33	9.32	9.33	9.31	9.29	9.30	9.24	0.2%
5-Valve/6-Cylinder	2.20	2.19	2.20	2.19	2.19	2.19	2.20	2.20	2.20	2.19	2.19	2.19	2.19	1.2%
VVT-4 Cylinder	48.51	48.44	48.20	47.98	47.90	47.48	47.24	47.01	46.81	46.75	46.75	46.42	46.59	4.2%
VVT-6 Cylinder	6.76	6.84	6.87	6.92	6.96	6.96	6.96	6.97	6.99	6.98	6.99	6.99	6.98	3.0%
VVT-8 Cylinder	2.80	2.79	2.79	2.84	2.90	2.91	2.92	2.93	2.96	2.94	2.91	2.91	2.89	7.8%
VVL-4 Cylinder	9.02	9.04	9.03	9.06	9.10	9.08	9.08	9.08	9.09	9.10	9.11	9.11	9.13	1.4%
VVL-6 Cylinder	3.58	3.66	3.66	3.70	3.72	3.72	3.71	3.71	3.71	3.71	3.71	3.70	3.70	9.7%
VVL-8 Cylinder	1.99	1.91	1.85	1.83	1.84	1.85	1.85	1.86	1.86	1.86	1.85	1.86	1.84	2.0%
Camless Valve Actuation-4cyl	0.68	0.95	1.23	1.60	1.94	2.28	2.56	2.87	3.12	3.35	3.49	3.88	4.02	N/A
Camless Valve Actuation-6cyl	0.92	1.19	1.52	1.82	2.13	2.38	2.64	2.87	3.09	3.20	3.50	3.62	3.64	N/A
Camless Valve Actuation-8cyl	0.89	1.11	1.29	1.44	1.55	1.66	1.78	1.90	1.97	2.09	2.15	2.16	2.15	N/A
Cylinder Deactivation	2.15	2.35	2.58	2.80	3.02	3.13	3.24	3.37	3.42	3.42	3.43	3.43	3.42	N/A
Turbocharging/Supercharging	2.15	2.23	2.24	2.26	2.29	2.28	2.28	2.28	2.29	2.29	2.29	2.29	2.30	20.5%
Engine Friction Reduction I	67.58	67.03	66.38	65.58	64.67	63.79	62.86	61.86	60.79	60.00	59.17	58.44	57.95	-0.6%
Engine Friction Reduction II	28.29	28.43	28.52	28.59	28.62	28.64	28.65	28.67	28.71	28.71	28.71	28.72	28.68	1.6%
Engine Friction Reduction III	2.33	3.07	3.87	4.72	5.59	6.30	7.01	7.69	8.40	8.76	9.12	9.34	9.34	N/A
Engine Friction Reduction IV	0.00	0.00	0.00	0.03	0.16	0.40	0.72	1.16	1.67	2.22	2.80	3.40	3.98	N/A
Stoichiometric GDI/4-Cylinder	1.62	1.95	2.29	2.57	2.85	3.05	3.26	3.40	3.81	3.98	4.06	4.08	4.09	N/A
Stoichiometric GDI/6-Cylinder	1.44	1.71	1.99	2.22	2.46	2.64	2.82	2.92	3.18	3.29	3.32	3.33	3.33	N/A
Lean Burn GDI	1.89	2.23	2.58	2.88	3.16	3.38	3.59	3.72	3.90	4.00	4.03	4.03	4.03	N/A
5W-30 Engine Oil	39.99	39.95	39.96	39.94	39.91	39.93	39.93	39.92	39.92	39.90	39.88	39.89	39.85	0.0%
5W-20 Engine Oil	14.90	16.28	17.59	18.53	18.76	19.00	19.26	19.51	19.81	19.90	20.01	20.01	19.98	N/A
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric Power Steering	5.43	6.25	7.13	7.89	8.63	9.09	9.57	10.20	10.68	10.95	11.22	11.37	11.36	N/A
Improved Alternator	2.22	2.56	2.84	3.12	3.34	3.55	3.64	3.78	3.90	3.91	3.92	3.93	3.92	N/A
Improved Oil/Water Pump	16.31	17.37	17.75	17.93	18.05	18.07	18.08	18.13	18.23	18.24	18.27	18.27	18.24	26.3%
Electric Oil/Water Pump	1.34	1.65	1.98	2.32	2.61	2.89	3.12	3.38	3.53	3.66	3.78	3.81	3.81	N/A
Tires II	52.90	52.82	52.80	52.74	52.64	52.69	52.69	52.66	52.63	52.58	52.51	52.51	52.32	-0.1%

**Table 56. Technology Market Penetration in Light-Duty Vehicles
(Percentage)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Tires III	9.79	11.62	13.27	14.92	16.18	17.43	17.93	18.31	18.75	18.89	19.00	19.01	18.98	N/A
Tires IV	0.00	0.00	0.04	0.20	0.53	1.02	1.71	2.57	3.56	4.60	5.74	6.91	7.84	N/A
Front Wheel Drive	82.64	82.64	82.65	82.64	82.63	82.64	82.64	82.64	82.64	82.64	82.63	82.63	82.62	0.0%
Four Wheel Drive Improvements	1.58	1.58	1.64	1.65	1.65	1.65	1.65	1.65	1.66	1.66	1.67	1.67	1.67	21.3%
42V-Launch Assist and Regen	1.08	1.27	1.46	1.61	1.76	1.88	1.99	2.04	2.10	2.15	2.16	2.16	2.16	N/A
42V-Engine Off at Idle	1.27	1.46	1.61	1.76	1.88	1.99	2.04	2.10	2.15	2.16	2.16	2.16	2.16	N/A
Tier 2 Emissions Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Increased Size/Weight	65.00	70.00	75.00	80.00	85.00	90.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	13.3%
Variable Compression Ratio	0.00	0.00	0.02	0.10	0.22	0.37	0.56	0.76	0.97	1.20	1.42	1.64	1.81	N/A
Light Truck														
Unit Body Construction	21.34	21.39	21.36	21.39	21.47	21.39	21.36	21.34	21.32	21.36	21.42	21.40	21.51	0.6%
Material Substitution II	32.11	32.24	32.32	32.38	32.39	32.40	32.40	32.41	32.41	32.40	32.38	32.39	32.37	0.2%
Material Substitution III	4.92	5.29	5.69	5.86	6.02	6.13	6.13	6.14	6.16	6.16	6.16	6.16	6.16	N/A
Material Substitution IV	0.38	0.63	0.90	1.18	1.48	1.78	2.09	2.39	2.70	2.96	3.23	3.36	3.48	N/A
Material Substitution V	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.13	0.23	0.37	0.52	0.68	0.84	N/A
Drag Reduction II	50.96	48.85	47.28	45.64	44.27	43.12	42.29	41.39	40.10	39.29	38.64	37.99	37.37	0.6%
Drag Reduction III	30.78	32.83	33.84	34.86	35.39	35.40	35.40	35.40	35.46	35.46	35.46	35.46	35.46	27.4%
Drag Reduction IV	8.07	9.96	11.96	13.93	15.85	17.18	18.08	18.94	20.15	20.72	20.96	20.96	20.96	N/A
Drag Reduction V	0.00	0.03	0.10	0.28	0.56	0.99	1.50	2.11	2.80	3.50	4.27	4.95	5.59	N/A
Roll-Over Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Side Impact Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Advanced Low Loss Torque Converter	37.81	43.65	49.15	54.50	58.97	63.47	65.46	68.29	70.69	70.81	70.85	70.85	70.85	N/A
Early Torque Converter Lockup	24.25	28.41	32.52	36.87	41.23	45.09	48.96	51.43	53.95	55.53	55.78	55.78	55.78	N/A
Aggressive Shift Logic	4.65	5.67	6.75	7.78	8.78	9.66	10.57	11.28	12.02	12.47	12.63	12.63	12.63	N/A
4-Speed Automatic	81.52	80.95	80.18	79.08	77.73	76.94	76.04	75.06	74.04	73.45	72.97	72.74	72.84	-0.6%
5-Speed Automatic	8.15	8.28	8.34	8.40	8.43	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.42	1.4%
6-Speed Automatic	0.86	1.12	1.46	1.76	2.05	2.31	2.58	2.84	3.10	3.21	3.57	3.69	3.69	N/A
6-Speed Manual	2.82	3.01	3.10	3.19	3.25	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.25	22.5%
CVT	0.28	0.36	0.49	0.60	0.72	0.82	0.92	1.02	1.12	1.18	1.36	1.44	1.46	N/A
Automated Manual Trans	0.40	0.90	1.68	2.50	3.51	3.97	4.52	5.14	5.79	6.22	6.19	6.21	6.14	N/A
Roller Cam	98.22	98.22	98.22	98.22	98.22	98.22	98.22	98.22	98.22	98.22	98.22	98.22	98.22	0.9%
OHC/AdvOHV-4 Cylinder	2.12	2.04	2.02	1.99	1.96	1.98	1.98	1.98	1.99	1.98	1.97	1.98	1.95	-1.7%
OHC/AdvOHV-6 Cylinder	38.57	38.48	38.42	38.38	38.37	38.33	38.32	38.31	38.30	38.32	38.34	38.34	38.39	-0.2%
OHC/AdvOHV-8 Cylinder	23.94	23.82	23.78	23.72	23.67	23.69	23.69	23.70	23.70	23.70	23.69	23.69	23.68	-0.3%
4-Valve/4-Cylinder	7.39	7.45	7.48	7.50	7.50	7.52	7.52	7.52	7.53	7.52	7.51	7.51	7.49	0.4%
4-Valve/6-Cylinder	11.95	12.21	12.33	12.45	12.53	12.53	12.54	12.54	12.54	12.54	12.53	12.53	12.53	1.8%
4-Valve/8-Cylinder	5.97	6.19	6.29	6.39	6.46	6.46	6.46	6.47	6.47	6.47	6.47	6.47	6.46	2.5%
5-Valve/6-Cylinder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
VVT-4 Cylinder	9.51	9.48	9.44	9.35	9.20	9.05	8.85	8.63	8.31	8.01	7.67	7.41	7.09	14.6%
VVT-6 Cylinder	6.74	7.15	7.32	7.48	7.57	7.52	7.46	7.40	7.34	7.28	7.22	7.16	7.10	21.7%
VVT-8 Cylinder	5.23	5.66	5.87	6.08	6.20	6.21	6.21	6.21	6.22	6.22	6.21	6.21	6.19	22.1%
VVL-4 Cylinder	3.13	3.04	2.91	2.74	2.53	2.28	1.99	1.70	1.70	1.70	1.70	1.70	1.69	N/A
VVL-6 Cylinder	4.07	4.32	4.36	4.39	4.37	4.28	4.16	4.05	3.95	3.95	3.95	3.95	3.95	20.6%
VVL-8 Cylinder	1.07	1.25	1.47	1.68	1.89	2.09	2.30	2.41	2.53	2.61	2.62	2.62	2.62	N/A
Camless Valve Actuation-4cyl	0.00	0.02	0.06	0.14	0.27	0.45	0.65	0.88	1.20	1.49	1.80	2.08	2.34	N/A
Camless Valve Actuation-6cyl	0.09	0.21	0.39	0.65	0.94	1.24	1.64	2.02	2.42	2.78	3.16	3.49	3.80	N/A
Camless Valve Actuation-8cyl	0.14	0.26	0.41	0.58	0.75	0.96	1.16	1.38	1.59	1.81	2.02	2.24	2.33	N/A
Cylinder Deactivation	3.59	4.09	4.63	5.17	5.69	5.92	6.16	6.47	6.60	6.60	6.60	6.60	6.59	N/A
Turbocharging/Supercharging	1.55	1.65	1.69	1.74	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	20.7%
Engine Friction Reduction I	61.13	57.71	55.03	51.98	49.30	47.05	44.61	41.51	37.88	35.15	32.64	30.73	29.19	-1.8%
Engine Friction Reduction II	37.03	39.83	41.03	42.29	42.98	42.98	42.98	42.99	43.07	43.07	43.07	43.07	43.04	27.4%
Engine Friction Reduction III	1.32	2.46	3.95	5.68	7.56	9.54	11.54	13.91	16.54	18.24	19.60	20.33	20.73	N/A
Engine Friction Reduction IV	0.00	0.00	0.00	0.04	0.16	0.43	0.87	1.59	2.51	3.54	4.68	5.87	7.04	N/A
Stoichiometric GDI/4-Cylinder	0.68	0.90	1.21	1.50	1.79	2.06	2.33	2.57	2.46	2.32	2.30	2.17	1.99	N/A
Stoichiometric GDI/6-Cylinder	0.37	0.61	0.88	1.16	1.52	1.84	2.17	2.50	2.82	2.99	3.17	3.23	3.47	N/A
Lean Burn GDI	0.47	0.79	1.14	1.51	1.92	2.32	2.74	3.15	3.55	3.79	4.03	4.11	4.25	N/A
5W-30 Engine Oil	39.99	39.92	39.92	39.92	39.90	39.75	39.52	39.45	39.39	39.39	39.38	39.38	39.37	0.2%
5W-20 Engine Oil	28.31	30.34	32.79	35.66	36.95	37.98	38.87	39.52	39.87	39.88	39.89	39.89	39.88	N/A

**Table 56. Technology Market Penetration in Light-Duty Vehicles
(Percentage)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric Power Steering	4.08	5.05	6.04	7.10	8.05	9.00	9.67	10.57	11.49	11.73	11.95	12.05	12.05	N/A
Improved Alternator	2.67	3.10	3.50	3.90	4.25	4.59	4.75	4.97	5.16	5.18	5.18	5.18	5.18	N/A
Improved Oil/Water Pump	30.93	33.08	34.13	35.17	35.71	35.72	35.72	35.72	35.79	35.78	35.78	35.78	35.78	27.4%
Electric Oil/Water Pump	1.09	1.45	1.84	2.25	2.67	3.07	3.47	3.88	4.31	4.53	4.77	4.95	4.97	N/A
Tires II	64.66	64.10	63.36	62.26	60.65	58.92	57.71	55.95	53.91	52.33	50.73	49.25	47.81	1.2%
Tires III	20.50	22.80	24.96	27.64	29.79	32.19	33.49	35.49	37.35	37.70	37.89	37.88	37.88	N/A
Tires IV	0.00	0.00	0.05	0.19	0.56	1.20	2.26	3.72	5.53	7.51	9.73	11.88	13.85	N/A
Front Wheel Drive	15.97	16.05	16.01	16.06	16.18	16.06	16.03	16.01	15.98	16.04	16.12	16.09	16.27	0.3%
Four Wheel Drive Improvements	4.54	4.82	5.35	5.57	5.68	5.68	5.68	5.68	5.69	5.69	5.69	5.69	5.69	23.7%
42V-Launch Assist and Regen	1.04	1.24	1.43	1.60	1.78	1.93	2.07	2.14	2.22	2.28	2.29	2.29	2.29	N/A
42V-Engine Off at Idle	1.24	1.43	1.60	1.78	1.93	2.07	2.14	2.22	2.28	2.29	2.29	2.29	2.29	N/A
Tier 2 Emissions Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Increased Size/Weight	65.00	70.00	75.00	80.00	85.00	90.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	13.3%
Variable Compression Ratio	0.00	0.00	0.01	0.06	0.14	0.25	0.39	0.54	0.70	0.89	1.06	1.23	1.37	N/A
Light-Duty Vehicle Total														
Unit Body Construction	57.76	57.74	57.67	57.65	57.69	57.58	57.54	57.51	57.49	57.52	57.57	57.55	57.66	-0.1%
Material Substitution II	41.11	41.16	41.18	41.19	41.19	41.18	41.17	41.17	41.17	41.16	41.15	41.15	41.14	0.0%
Material Substitution III	5.35	5.70	5.98	6.15	6.29	6.34	6.34	6.35	6.39	6.39	6.40	6.40	6.41	26.4%
Material Substitution IV	1.04	1.33	1.63	1.92	2.21	2.47	2.74	2.96	3.19	3.38	3.54	3.62	3.68	N/A
Material Substitution V	0.00	0.01	0.05	0.12	0.21	0.33	0.47	0.63	0.82	1.02	1.24	1.43	1.63	N/A
Drag Reduction II	52.01	50.64	49.60	48.61	47.74	47.02	46.46	45.87	45.07	44.57	44.15	43.79	43.44	-0.1%
Drag Reduction III	23.40	24.95	25.65	26.25	26.58	26.61	26.62	26.65	26.73	26.73	26.75	26.75	26.73	23.5%
Drag Reduction IV	8.49	9.73	11.05	12.19	13.30	14.07	14.53	15.03	15.71	16.01	16.16	16.16	16.15	N/A
Drag Reduction V	0.40	0.66	0.97	1.35	1.80	2.32	2.91	3.54	4.21	4.81	5.44	5.90	6.30	N/A
Roll-Over Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Side Impact Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Advanced Low Loss Torque Converter	42.22	46.49	49.75	53.08	55.80	58.06	59.06	60.61	62.06	62.18	62.28	62.29	62.25	12.3%
Early Torque Converter Lockup	24.47	27.40	30.16	32.65	35.09	37.25	39.21	40.64	42.14	43.00	43.23	43.24	43.20	N/A
Aggressive Shift Logic	5.89	6.57	7.20	7.80	8.37	8.81	9.26	9.63	10.03	10.26	10.35	10.35	10.35	8.1%
4-Speed Automatic	71.42	70.62	69.49	68.76	67.88	67.51	67.00	66.45	65.89	65.55	65.25	65.15	65.10	-0.7%
5-Speed Automatic	8.56	8.67	8.72	8.78	8.81	8.82	8.81	8.81	8.81	8.81	8.81	8.81	8.79	0.9%
6-Speed Automatic	1.28	1.48	1.73	1.93	2.12	2.27	2.47	2.64	2.78	2.83	3.01	3.08	3.07	N/A
6-Speed Manual	3.01	3.14	3.20	3.26	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	7.8%
CVT	1.95	2.10	2.22	2.34	2.45	2.50	2.56	2.65	2.74	2.79	2.90	2.95	2.97	20.8%
Automated Manual Trans	3.75	4.92	5.93	6.37	6.93	7.15	7.43	7.74	8.05	8.28	8.28	8.28	8.30	N/A
Roller Cam	95.81	95.81	95.82	95.82	95.82	95.82	95.83	95.83	95.83	95.83	95.82	95.82	95.82	0.6%
OHC/AdvOHV-4 Cylinder	2.84	2.80	2.79	2.77	2.76	2.77	2.77	2.77	2.77	2.77	2.76	2.76	2.76	-0.7%
OHC/AdvOHV-6 Cylinder	20.93	20.91	20.90	20.90	20.90	20.91	20.92	20.92	20.92	20.92	20.93	20.93	20.94	-0.1%
OHC/AdvOHV-8 Cylinder	13.36	13.31	13.31	13.28	13.26	13.29	13.30	13.31	13.31	13.30	13.30	13.30	13.27	-0.1%
4-Valve/4-Cylinder	27.93	27.99	27.95	27.98	28.05	27.95	27.91	27.90	27.88	27.92	27.96	27.94	28.06	0.0%
4-Valve/6-Cylinder	17.99	18.09	18.14	18.18	18.18	18.21	18.22	18.22	18.22	18.21	18.19	18.20	18.15	0.4%
4-Valve/8-Cylinder	7.68	7.77	7.82	7.86	7.88	7.90	7.90	7.90	7.91	7.90	7.88	7.89	7.85	0.9%
5-Valve/6-Cylinder	1.11	1.11	1.11	1.11	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.0%
VVT-4 Cylinder	29.24	29.15	28.99	28.81	28.67	28.37	28.13	27.90	27.64	27.46	27.29	26.99	26.92	4.5%
VVT-6 Cylinder	6.75	6.99	7.09	7.20	7.26	7.24	7.21	7.18	7.16	7.13	7.10	7.07	7.04	5.7%
VVT-8 Cylinder	4.00	4.21	4.32	4.45	4.54	4.55	4.56	4.56	4.58	4.57	4.55	4.55	4.53	12.3%
VVL-4 Cylinder	6.11	6.07	6.00	5.92	5.84	5.70	5.55	5.41	5.41	5.42	5.42	5.42	5.42	1.9%
VVL-6 Cylinder	3.82	3.99	4.01	4.04	4.05	3.99	3.93	3.88	3.83	3.83	3.83	3.83	3.83	12.3%
VVL-8 Cylinder	1.54	1.59	1.66	1.76	1.86	1.97	2.07	2.13	2.19	2.23	2.24	2.24	2.23	5.5%
Camless Valve Actuation-4cyl	0.35	0.49	0.65	0.88	1.11	1.37	1.61	1.88	2.17	2.43	2.65	2.98	3.18	N/A
Camless Valve Actuation-6cyl	0.51	0.70	0.96	1.24	1.53	1.81	2.14	2.45	2.76	2.99	3.33	3.56	3.72	N/A
Camless Valve Actuation-8cyl	0.52	0.69	0.85	1.01	1.15	1.32	1.47	1.64	1.78	1.95	2.09	2.20	2.24	N/A
Cylinder Deactivation	2.86	3.21	3.60	3.98	4.34	4.52	4.69	4.91	5.00	5.01	5.01	5.01	5.00	N/A
Turbocharging/Supercharging	1.85	1.94	1.97	2.00	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	20.6%
Engine Friction Reduction I	64.39	62.42	60.75	58.83	57.03	55.46	53.78	51.73	49.38	47.63	45.96	44.64	43.63	-1.1%
Engine Friction Reduction II	32.60	34.07	34.72	35.39	35.75	35.78	35.78	35.80	35.86	35.86	35.86	35.86	35.83	5.3%
Engine Friction Reduction III	1.83	2.77	3.91	5.19	6.57	7.91	9.26	10.79	12.45	13.48	14.34	14.81	15.01	N/A

**Table 56. Technology Market Penetration in Light-Duty Vehicles
(Percentage)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Engine Friction Reduction IV	0.00	0.00	0.00	0.04	0.16	0.41	0.79	1.38	2.09	2.88	3.74	4.63	5.51	N/A
Stoichiometric GDI/4-Cylinder	1.15	1.43	1.75	2.04	2.32	2.56	2.79	2.98	3.14	3.16	3.18	3.13	3.05	N/A
Stoichiometric GDI/6-Cylinder	0.91	1.17	1.44	1.70	1.99	2.24	2.50	2.71	3.00	3.14	3.25	3.28	3.40	N/A
Lean Burn GDI	1.18	1.52	1.87	2.20	2.55	2.85	3.17	3.44	3.72	3.89	4.03	4.07	4.14	N/A
5W-30 Engine Oil	39.99	39.94	39.94	39.93	39.90	39.84	39.73	39.68	39.66	39.65	39.63	39.64	39.61	0.1%
5W-20 Engine Oil	21.53	23.24	25.13	27.03	27.80	28.44	29.02	29.48	29.80	29.85	29.91	29.91	29.89	N/A
0W-20 Engine Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electric Power Steering	4.76	5.66	6.59	7.50	8.34	9.05	9.62	10.38	11.08	11.34	11.58	11.71	11.70	N/A
Improved Alternator	2.44	2.82	3.17	3.51	3.79	4.07	4.19	4.37	4.53	4.54	4.55	4.55	4.55	N/A
Improved Oil/Water Pump	23.53	25.15	25.87	26.48	26.82	26.85	26.86	26.89	26.97	26.98	26.99	26.99	26.97	27.1%
Electric Oil/Water Pump	1.22	1.55	1.91	2.29	2.64	2.98	3.29	3.63	3.92	4.10	4.28	4.38	4.39	N/A
Tires II	58.71	58.41	58.03	57.46	56.62	55.79	55.19	54.30	53.27	52.46	51.62	50.89	50.07	0.4%
Tires III	15.08	17.15	19.07	21.23	22.94	24.77	25.67	26.87	28.01	28.26	28.41	28.41	28.39	N/A
Tires IV	0.00	0.00	0.05	0.19	0.55	1.11	1.99	3.14	4.54	6.05	7.73	9.38	10.83	N/A
Front Wheel Drive	49.70	49.68	49.62	49.60	49.61	49.53	49.49	49.46	49.44	49.47	49.51	49.50	49.58	-0.1%
Four Wheel Drive Improvements	3.04	3.18	3.48	3.59	3.65	3.65	3.66	3.66	3.67	3.67	3.67	3.67	3.67	23.1%
42V-Launch Assist and Regen	1.06	1.26	1.44	1.61	1.77	1.90	2.03	2.09	2.16	2.22	2.22	2.23	2.23	N/A
42V-Engine Off at Idle	1.26	1.44	1.61	1.77	1.90	2.03	2.09	2.16	2.22	2.22	2.23	2.23	2.23	N/A
Tier 2 Emissions Technology	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	N/A
Increased Size/Weight	65.00	70.00	75.00	80.00	85.00	90.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	13.3%
Variable Compression Ratio	0.00	0.00	0.02	0.08	0.18	0.31	0.48	0.65	0.83	1.05	1.24	1.43	1.59	N/A

**Table 56. Technology Market Penetration in Light-Duty Vehicles
(Percentage)**

Source: Energy Information Administration, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 57. New Light-Duty Vehicle Fuel Economy
(Miles per Gallon)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Gasoline													
Mini-compact Cars	24.50	24.45	24.69	24.80	24.90	24.82	25.04	25.04	24.86	25.07	25.40	25.54	25.72
Subcompact Cars	31.04	30.99	30.89	30.93	30.98	30.80	30.63	30.44	30.18	30.27	30.43	30.50	30.66
Compact Cars	30.28	30.21	30.13	30.20	30.30	30.19	30.09	29.97	29.72	29.82	29.98	30.08	30.25
Midsize Cars	26.73	26.67	26.60	26.66	26.73	26.63	26.55	26.42	26.20	26.31	26.48	26.57	26.69
Large Cars	25.26	25.20	25.11	25.11	25.10	24.92	24.77	24.59	24.35	24.43	24.57	24.67	24.82
Two Seater Cars	24.87	24.89	24.95	24.96	25.00	24.87	24.76	24.63	24.42	24.55	24.76	24.87	25.04
Small Pickup	22.29	22.23	22.21	22.25	22.30	22.39	22.35	22.32	22.16	22.31	22.52	22.63	22.83
Large Pickup	18.88	18.85	18.82	18.82	18.82	18.85	18.80	18.75	18.61	18.73	18.90	19.03	19.21
Small Van	23.26	23.17	23.07	23.09	23.10	23.11	22.89	22.78	22.57	22.66	22.84	22.92	23.07
Large Van	18.10	18.07	18.03	18.03	18.04	18.09	18.05	18.04	17.91	18.05	18.26	18.41	18.63
Small Utility	21.19	21.12	21.11	21.15	21.19	21.24	21.21	21.20	21.04	21.20	21.46	21.58	21.78
Large Utility	17.51	17.50	17.47	17.48	17.49	17.53	17.45	17.42	17.30	17.42	17.65	17.80	18.01
Turbo Direct Injection Diesel													
Mini-compact Cars	33.08	32.98	32.94	33.01	33.06	32.86	32.75	32.57	32.25	32.35	32.54	32.59	32.69
Subcompact Cars	41.90	41.73	41.47	41.49	41.49	41.22	40.88	40.51	40.09	40.11	40.12	40.10	40.12
Compact Cars	40.87	40.70	40.44	40.48	40.49	40.25	39.96	39.62	39.19	39.20	39.24	39.23	39.26
Midsize Cars	36.08	35.94	35.76	35.79	35.83	35.59	35.30	34.97	34.56	34.56	34.58	34.57	34.57
Large Cars	34.11	34.01	33.86	33.85	33.83	33.55	33.22	32.88	32.51	32.52	32.57	32.57	32.61
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	30.10	30.00	29.84	29.86	29.92	29.98	29.59	29.38	29.11	29.17	29.25	29.28	29.35
Large Pickup	25.49	25.44	25.27	25.27	25.28	25.28	24.95	24.74	24.48	24.51	24.61	24.66	24.75
Small Van	31.40	31.26	31.07	31.08	31.10	31.12	30.64	30.38	30.08	30.09	30.13	30.14	30.19
Large Van	24.43	24.34	24.24	24.24	24.25	24.26	24.00	23.83	23.59	23.65	23.79	23.86	23.96
Small Utility	28.60	28.50	28.34	28.36	28.38	28.40	28.03	27.83	27.54	27.57	27.69	27.73	27.82
Large Utility	23.64	23.54	23.47	23.47	23.45	23.43	23.14	23.00	22.77	22.84	22.99	23.05	23.15
Methanol													
Mini-compact Cars	26.46	26.40	26.57	26.67	26.78	26.69	26.85	26.82	26.63	26.85	27.18	27.34	27.59
Subcompact Cars	33.52	33.46	33.33	33.36	33.41	33.21	33.00	32.75	32.44	32.53	32.71	32.81	32.97
Compact Cars	32.70	32.62	32.52	32.57	32.67	32.53	32.36	32.18	31.88	31.97	32.14	32.23	32.38
Midsize Cars	28.86	28.78	28.71	28.77	28.83	28.68	28.57	28.40	28.14	28.24	28.42	28.52	28.67
Large Cars	27.29	27.21	27.12	27.11	27.10	26.91	26.70	26.50	26.25	26.32	26.46	26.56	26.70
Two Seater Cars	26.86	26.88	26.93	26.94	26.96	26.80	26.69	26.55	26.33	26.45	26.66	26.80	26.97
Small Pickup	24.08	24.01	23.96	23.99	24.03	24.09	23.98	23.91	23.72	23.89	24.13	24.28	24.47
Large Pickup	20.39	20.35	20.32	20.32	20.31	20.34	20.24	20.17	20.02	20.18	20.41	20.54	20.72
Small Van	25.12	25.02	24.90	24.91	24.92	24.91	24.64	24.48	24.25	24.34	24.52	24.63	24.80
Large Van	19.55	19.50	19.46	19.46	19.46	19.49	19.41	19.39	19.27	19.42	19.66	19.81	20.02
Small Utility	22.88	22.81	22.81	22.83	22.87	22.94	22.89	22.88	22.72	22.89	23.19	23.34	23.55
Large Utility	18.91	18.88	18.86	18.87	18.87	18.91	18.79	18.77	18.65	18.79	19.02	19.18	19.39
Methanol Flex													
Mini-compact Cars	24.99	24.94	25.15	25.27	25.36	25.28	25.50	25.49	25.31	25.52	25.85	26.00	26.19
Subcompact Cars	31.66	31.61	31.50	31.53	31.59	31.40	31.21	31.00	30.71	30.81	30.98	31.07	31.23
Compact Cars	30.88	30.81	30.73	30.79	30.89	30.76	30.64	30.49	30.22	30.32	30.50	30.59	30.75
Midsize Cars	27.26	27.19	27.13	27.19	27.25	27.13	27.05	26.90	26.67	26.77	26.95	27.04	27.18
Large Cars	25.77	25.70	25.61	25.61	25.60	25.42	25.25	25.06	24.83	24.90	25.04	25.14	25.29
Two Seater Cars	25.37	25.39	25.46	25.46	25.50	25.36	25.26	25.13	24.92	25.05	25.27	25.39	25.56
Small Pickup	22.74	22.67	22.65	22.68	22.72	22.79	22.73	22.70	22.52	22.69	22.91	23.03	23.23
Large Pickup	19.26	19.22	19.20	19.20	19.20	19.22	19.16	19.11	18.97	19.09	19.27	19.41	19.59
Small Van	23.72	23.63	23.53	23.55	23.55	23.56	23.32	23.20	22.98	23.08	23.26	23.37	23.51
Large Van	18.46	18.42	18.39	18.39	18.39	18.44	18.39	18.38	18.26	18.40	18.61	18.76	18.98
Small Utility	21.61	21.54	21.54	21.57	21.60	21.66	21.62	21.61	21.46	21.65	21.93	22.07	22.28

**Table 57. New Light-Duty Vehicle Fuel Economy
(Miles per Gallon)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Large Utility	17.86	17.84	17.82	17.83	17.84	17.88	17.79	17.77	17.65	17.77	18.00	18.15	18.37
Ethanol													
Mini-compact Cars	25.48	25.42	25.62	25.73	25.83	25.75	25.95	25.94	25.75	25.97	26.29	26.45	26.66
Subcompact Cars	32.28	32.23	32.11	32.14	32.19	32.00	31.80	31.58	31.28	31.38	31.56	31.65	31.82
Compact Cars	31.49	31.41	31.33	31.38	31.48	31.35	31.21	31.05	30.76	30.87	31.04	31.13	31.29
Midsize Cars	27.79	27.72	27.65	27.71	27.78	27.65	27.55	27.40	27.16	27.26	27.44	27.53	27.68
Large Cars	26.27	26.20	26.11	26.11	26.10	25.92	25.73	25.54	25.30	25.37	25.51	25.61	25.76
Two Seater Cars	25.87	25.89	25.95	25.95	25.98	25.84	25.74	25.61	25.39	25.52	25.74	25.87	26.04
Small Pickup	23.19	23.12	23.08	23.12	23.16	23.22	23.15	23.10	22.92	23.09	23.31	23.44	23.65
Large Pickup	19.64	19.60	19.57	19.57	19.57	19.60	19.52	19.46	19.33	19.46	19.67	19.80	19.98
Small Van	24.19	24.09	23.99	24.00	24.01	24.01	23.76	23.62	23.40	23.50	23.69	23.80	23.94
Large Van	18.82	18.78	18.74	18.74	18.75	18.79	18.74	18.72	18.60	18.74	18.95	19.11	19.33
Small Utility	22.03	21.96	21.96	21.99	22.02	22.09	22.04	22.05	21.90	22.09	22.39	22.53	22.72
Large Utility	18.21	18.19	18.17	18.18	18.18	18.22	18.13	18.11	17.98	18.13	18.35	18.50	18.71
Ethanol Flex													
Mini-compact Cars	24.75	24.69	24.92	25.03	25.13	25.05	25.27	25.27	25.09	25.30	25.63	25.78	25.97
Subcompact Cars	31.35	31.30	31.19	31.23	31.28	31.10	30.91	30.71	30.43	30.53	30.70	30.78	30.94
Compact Cars	30.58	30.51	30.43	30.49	30.59	30.47	30.35	30.21	29.95	30.05	30.23	30.32	30.48
Midsize Cars	26.99	26.93	26.86	26.92	26.99	26.88	26.80	26.66	26.43	26.53	26.70	26.80	26.93
Large Cars	25.52	25.45	25.36	25.36	25.35	25.17	25.01	24.82	24.58	24.67	24.81	24.91	25.06
Two Seater Cars	25.12	25.14	25.21	25.22	25.25	25.12	25.02	24.90	24.69	24.82	25.04	25.16	25.33
Small Pickup	22.52	22.45	22.43	22.46	22.51	22.58	22.53	22.50	22.33	22.49	22.71	22.83	23.03
Large Pickup	19.07	19.04	19.01	19.01	19.01	19.04	18.98	18.93	18.80	18.91	19.09	19.23	19.41
Small Van	23.49	23.40	23.30	23.32	23.33	23.33	23.11	22.99	22.77	22.87	23.05	23.14	23.29
Large Van	18.28	18.24	18.21	18.21	18.21	18.26	18.22	18.21	18.09	18.23	18.44	18.59	18.81
Small Utility	21.40	21.33	21.32	21.36	21.39	21.45	21.41	21.41	21.25	21.43	21.72	21.86	22.06
Large Utility	17.69	17.67	17.65	17.66	17.66	17.71	17.62	17.60	17.48	17.60	17.84	17.99	18.20
Compressed Natural Gas (CNG)													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	32.70	32.62	32.52	32.61	32.73	32.64	32.52	32.38	32.09	32.18	32.33	32.40	32.53
Midsize Cars	28.86	28.78	28.71	28.79	28.89	28.77	28.67	28.51	28.25	28.31	28.43	28.49	28.59
Large Cars	27.29	27.21	27.10	27.10	27.09	26.89	26.67	26.45	26.19	26.23	26.33	26.40	26.52
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	24.08	24.01	23.95	24.00	24.10	24.21	24.07	24.00	23.84	23.95	24.13	24.22	24.34
Large Pickup	20.39	20.35	20.28	20.29	20.30	20.32	20.21	20.12	19.94	20.04	20.18	20.24	20.34
Small Van	25.12	25.02	24.89	24.91	24.95	24.98	24.68	24.54	24.33	24.40	24.53	24.59	24.71
Large Van	19.55	19.50	19.45	19.45	19.47	19.51	19.41	19.37	19.22	19.32	19.50	19.59	19.73
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CNG Bi-Fuel													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	30.28	30.21	30.13	30.22	30.35	30.29	30.23	30.11	29.87	29.97	30.13	30.21	30.35
Midsize Cars	26.73	26.67	26.60	26.67	26.80	26.73	26.67	26.53	26.31	26.38	26.51	26.59	26.68
Large Cars	25.26	25.20	25.10	25.10	25.09	24.91	24.75	24.55	24.30	24.37	24.48	24.56	24.68
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	22.29	22.23	22.21	22.26	22.36	22.47	22.41	22.40	22.27	22.39	22.59	22.68	22.83
Large Pickup	18.88	18.85	18.80	18.81	18.83	18.86	18.81	18.75	18.61	18.70	18.84	18.93	19.05
Small Van	23.26	23.17	23.07	23.09	23.14	23.18	22.95	22.86	22.69	22.78	22.92	22.98	23.09
Large Van	18.10	18.07	18.02	18.03	18.07	18.11	18.06	18.04	17.90	18.01	18.17	18.29	18.46
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Table 57. New Light-Duty Vehicle Fuel Economy
(Miles per Gallon)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Liquefied Petroleum Gas (LPG)													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	32.28	32.23	32.11	32.16	32.20	32.01	31.81	31.60	31.31	31.39	31.54	31.60	31.74
Compact Cars	31.49	31.41	31.33	31.39	31.50	31.37	31.25	31.10	30.82	30.91	31.07	31.15	31.30
Midsize Cars	27.79	27.72	27.65	27.72	27.79	27.67	27.57	27.41	27.17	27.27	27.42	27.50	27.62
Large Cars	26.27	26.20	26.11	26.11	26.10	25.91	25.72	25.52	25.28	25.34	25.47	25.56	25.70
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	23.19	23.12	23.08	23.12	23.16	23.26	23.16	23.11	22.93	23.08	23.28	23.39	23.58
Large Pickup	19.64	19.60	19.56	19.56	19.56	19.58	19.50	19.43	19.28	19.40	19.59	19.70	19.85
Small Van	24.19	24.09	23.98	24.00	24.01	24.02	23.76	23.62	23.39	23.48	23.64	23.74	23.87
Large Van	18.82	18.78	18.74	18.74	18.74	18.78	18.72	18.70	18.57	18.70	18.89	19.03	19.24
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	18.21	18.19	18.16	18.17	18.17	18.21	18.11	18.08	17.94	18.08	18.28	18.41	18.62
LPG Bi-Fuel													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	30.28	30.21	30.13	30.21	30.31	30.22	30.13	30.02	29.77	29.88	30.03	30.12	30.28
Midsize Cars	26.73	26.67	26.60	26.67	26.75	26.66	26.58	26.45	26.24	26.33	26.47	26.55	26.67
Large Cars	25.26	25.20	25.11	25.11	25.10	24.92	24.76	24.57	24.33	24.41	24.55	24.64	24.78
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	22.29	22.23	22.21	22.25	22.32	22.42	22.37	22.35	22.19	22.32	22.52	22.62	22.79
Large Pickup	18.88	18.85	18.81	18.82	18.82	18.85	18.80	18.74	18.60	18.69	18.85	18.95	19.12
Small Van	23.26	23.17	23.07	23.09	23.11	23.14	22.91	22.80	22.59	22.68	22.85	22.92	23.05
Large Van	18.10	18.07	18.02	18.03	18.05	18.11	18.07	18.05	17.91	18.04	18.23	18.37	18.58
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	17.51	17.50	17.47	17.48	17.48	17.52	17.44	17.41	17.28	17.39	17.61	17.74	17.94
Electric													
Mini-compact Cars	26.01	27.43	27.76	28.38	31.25	34.40	38.33	43.40	42.82	42.83	42.86	42.85	42.85
Subcompact Cars	32.69	34.46	34.80	35.57	39.15	43.07	47.92	54.19	53.42	53.39	53.37	53.34	53.33
Compact Cars	32.04	33.78	34.12	34.86	38.36	42.20	46.94	53.07	52.32	52.29	52.28	52.25	52.23
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Two Seater Cars	30.17	31.81	32.13	32.84	36.15	39.77	44.26	50.07	49.37	49.35	49.34	49.31	49.28
Small Pickup	24.93	26.27	26.52	27.08	29.79	33.11	36.43	41.18	40.59	40.52	40.47	40.41	40.36
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	22.32	23.52	23.75	24.25	26.68	29.66	32.65	36.93	36.41	36.37	36.33	36.28	36.23
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diesel-Electric Hybrid													
Mini-compact Cars	39.20	39.09	38.96	39.01	39.04	38.78	38.47	38.12	37.72	37.78	37.90	37.91	37.96
Subcompact Cars	49.66	49.45	49.11	49.12	49.09	48.68	48.15	47.60	47.03	46.96	46.89	46.81	46.76
Compact Cars	48.44	48.23	47.89	47.92	47.90	47.53	47.05	46.55	45.98	45.90	45.83	45.75	45.69
Midsize Cars	42.76	42.59	42.31	42.33	42.33	41.98	41.52	41.04	40.52	40.45	40.40	40.33	40.29
Large Cars	40.42	40.31	40.13	40.12	40.07	39.72	39.26	38.80	38.33	38.30	38.28	38.25	38.24
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	37.21	37.05	36.81	36.81	36.82	36.79	36.15	35.78	35.36	35.30	35.26	35.20	35.17
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	33.90	33.77	33.55	33.56	33.56	33.55	32.98	32.64	32.25	32.23	32.24	32.22	32.24
Large Utility	28.02	27.89	27.74	27.73	27.71	27.66	27.23	26.98	26.66	26.66	26.72	26.74	26.80
Gasoline-Electric Hybrid													

**Table 57. New Light-Duty Vehicle Fuel Economy
(Miles per Gallon)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Mini-compact Cars	35.53	35.43	35.33	35.42	35.52	35.29	35.05	34.78	34.43	34.51	34.65	34.68	34.75
Subcompact Cars	45.00	44.91	44.68	44.73	44.74	44.41	43.96	43.50	43.01	42.98	42.95	42.89	42.86
Compact Cars	43.90	43.78	43.57	43.64	43.73	43.48	43.11	42.72	42.24	42.20	42.17	42.11	42.08
Midsize Cars	38.75	38.60	38.39	38.46	38.52	38.27	37.92	37.53	37.11	37.08	37.05	37.01	36.99
Large Cars	36.63	36.53	36.37	36.36	36.32	36.01	35.61	35.21	34.80	34.78	34.78	34.76	34.77
Two Seater Cars	36.07	36.02	36.01	36.01	36.03	35.77	35.42	35.07	34.69	34.69	34.72	34.73	34.75
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	33.72	33.58	33.36	33.35	33.34	33.29	32.71	32.36	31.97	31.92	31.89	31.84	31.82
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	30.72	30.58	30.36	30.35	30.34	30.30	29.78	29.47	29.11	29.08	29.12	29.11	29.14
Large Utility	25.39	25.27	25.16	25.15	25.12	25.07	24.71	24.49	24.21	24.23	24.32	24.35	24.42
Fuel Cell Methanol													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	56.51	56.42	56.35	56.28	56.20	55.52	54.75	53.98	53.22	53.18	53.17	53.14	53.12
Midsize Cars	48.34	48.27	48.22	48.16	48.10	47.53	46.89	46.25	45.61	45.58	45.57	45.54	45.51
Large Cars	43.45	43.40	43.35	43.30	43.25	42.73	42.16	41.59	41.02	40.99	40.96	40.93	40.90
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	39.36	39.29	39.22	39.15	39.08	39.02	38.08	37.56	37.04	36.99	36.95	36.90	36.85
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	41.44	41.36	41.29	41.22	41.16	41.10	40.12	39.58	39.02	38.98	38.94	38.89	38.85
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Hydrogen													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	61.96	61.87	61.78	61.71	61.62	60.88	60.03	59.19	58.35	58.31	58.30	58.27	58.25
Midsize Cars	53.00	52.93	52.87	52.81	52.74	52.11	51.41	50.72	50.02	49.98	49.97	49.93	49.90
Large Cars	47.65	47.59	47.53	47.47	47.42	46.86	46.23	45.60	44.98	44.94	44.91	44.88	44.85
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	43.16	43.08	43.00	42.93	42.86	42.79	41.76	41.19	40.61	40.56	40.51	40.46	40.41
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	45.44	45.35	45.28	45.20	45.13	45.06	43.99	43.40	42.79	42.74	42.70	42.65	42.60
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel Cell Gasoline													
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Cars	52.95	52.87	52.80	52.74	52.66	52.02	51.30	50.58	49.86	49.83	49.82	49.79	49.78
Midsize Cars	45.29	45.23	45.18	45.13	45.07	44.53	43.93	43.34	42.74	42.71	42.70	42.67	42.65
Large Cars	40.72	40.67	40.62	40.57	40.52	40.04	39.50	38.97	38.44	38.40	38.38	38.35	38.33
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Van	36.88	36.81	36.75	36.68	36.62	36.57	35.68	35.20	34.70	34.66	34.62	34.57	34.53
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Utility	38.83	38.76	38.69	38.63	38.57	38.51	37.60	37.09	36.57	36.52	36.49	36.44	36.40
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Table 57. New Light-Duty Vehicle Fuel Economy
(Miles per Gallon)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Gasoline														
Mini-compact Cars	25.87	25.96	26.03	26.10	26.16	26.21	26.26	26.31	26.39	26.45	26.52	26.58	26.61	0.4%
Subcompact Cars	30.84	30.98	31.10	31.20	31.30	31.37	31.43	31.51	31.63	31.71	31.79	31.85	31.89	0.1%
Compact Cars	30.45	30.62	30.71	30.77	30.84	30.88	30.92	30.97	31.07	31.14	31.20	31.24	31.27	0.1%
Midsize Cars	26.83	26.92	27.00	27.09	27.16	27.21	27.26	27.31	27.39	27.45	27.50	27.55	27.57	0.1%
Large Cars	25.00	25.14	25.25	25.35	25.45	25.52	25.58	25.65	25.75	25.83	25.91	25.96	25.99	0.1%
Two Seater Cars	25.24	25.36	25.47	25.57	25.67	25.74	25.78	25.84	25.93	26.00	26.07	26.13	26.16	0.2%
Small Pickup	23.04	23.23	23.44	23.60	23.78	23.90	24.03	24.17	24.34	24.47	24.57	24.65	24.72	0.4%
Large Pickup	19.41	19.54	19.68	19.83	19.95	20.07	20.15	20.25	20.38	20.49	20.57	20.63	20.70	0.4%
Small Van	23.21	23.33	23.43	23.55	23.64	23.73	23.82	23.94	24.09	24.20	24.31	24.39	24.46	0.2%
Large Van	18.89	19.05	19.18	19.33	19.46	19.58	19.67	19.78	19.93	20.04	20.16	20.25	20.35	0.5%
Small Utility	22.00	22.18	22.31	22.48	22.63	22.75	22.87	23.00	23.16	23.27	23.39	23.48	23.56	0.5%
Large Utility	18.20	18.33	18.46	18.59	18.71	18.79	18.87	18.98	19.12	19.21	19.31	19.38	19.45	0.4%
Turbo Direct Injection Diesel														
Mini-compact Cars	32.77	32.79	32.81	32.82	32.83	32.84	32.84	32.86	32.91	32.94	32.98	33.01	33.02	0.0%
Subcompact Cars	40.16	40.18	40.18	40.18	40.19	40.20	40.18	40.17	40.21	40.23	40.24	40.24	40.25	-0.2%
Compact Cars	39.34	39.38	39.40	39.42	39.46	39.47	39.44	39.42	39.45	39.46	39.47	39.45	39.45	-0.1%
Midsize Cars	34.59	34.58	34.57	34.56	34.56	34.53	34.50	34.49	34.52	34.54	34.55	34.54	34.54	-0.2%
Large Cars	32.67	32.72	32.76	32.79	32.83	32.84	32.84	32.87	32.94	32.98	33.01	33.03	33.04	-0.1%
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	29.46	29.53	29.62	29.73	29.88	29.96	30.03	30.08	30.21	30.29	30.37	30.41	30.44	0.1%
Large Pickup	24.83	24.89	24.95	25.00	25.07	25.10	25.12	25.18	25.27	25.33	25.38	25.40	25.43	0.0%
Small Van	30.25	30.29	30.33	30.38	30.44	30.48	30.50	30.56	30.67	30.73	30.80	30.84	30.87	-0.1%
Large Van	24.10	24.19	24.25	24.34	24.42	24.47	24.50	24.57	24.69	24.77	24.84	24.89	24.94	0.1%
Small Utility	27.93	27.99	28.05	28.12	28.18	28.23	28.28	28.34	28.43	28.51	28.59	28.64	28.68	0.0%
Large Utility	23.24	23.31	23.38	23.47	23.53	23.58	23.63	23.71	23.83	23.91	23.99	24.03	24.08	0.1%
Methanol														
Mini-compact Cars	27.77	27.87	27.98	28.07	28.15	28.21	28.27	28.32	28.41	28.48	28.55	28.60	28.64	0.3%
Subcompact Cars	33.18	33.34	33.48	33.62	33.72	33.80	33.88	33.98	34.12	34.22	34.31	34.38	34.43	0.1%
Compact Cars	32.58	32.74	32.88	32.97	33.05	33.10	33.15	33.21	33.32	33.39	33.46	33.51	33.54	0.1%
Midsize Cars	28.81	28.92	29.02	29.12	29.21	29.27	29.33	29.40	29.50	29.56	29.63	29.69	29.72	0.1%
Large Cars	26.87	27.02	27.14	27.26	27.37	27.45	27.52	27.61	27.73	27.81	27.90	27.96	28.00	0.1%
Two Seater Cars	27.16	27.30	27.42	27.53	27.65	27.73	27.80	27.86	27.95	28.02	28.09	28.15	28.19	0.2%
Small Pickup	24.70	24.92	25.14	25.36	25.59	25.72	25.85	25.99	26.18	26.32	26.45	26.53	26.59	0.4%
Large Pickup	20.94	21.13	21.27	21.42	21.56	21.68	21.78	21.89	22.02	22.12	22.21	22.28	22.34	0.4%
Small Van	24.94	25.06	25.17	25.28	25.40	25.50	25.59	25.71	25.87	25.99	26.11	26.20	26.28	0.2%
Large Van	20.30	20.49	20.66	20.85	21.00	21.13	21.24	21.36	21.50	21.62	21.74	21.82	21.90	0.5%
Small Utility	23.76	23.92	24.07	24.22	24.36	24.47	24.60	24.73	24.90	25.03	25.16	25.25	25.34	0.4%
Large Utility	19.63	19.80	19.95	20.09	20.21	20.32	20.42	20.52	20.65	20.75	20.83	20.89	20.95	0.4%
Methanol Flex														
Mini-compact Cars	26.35	26.45	26.52	26.59	26.66	26.72	26.77	26.82	26.90	26.97	27.05	27.11	27.15	0.4%
Subcompact Cars	31.43	31.59	31.72	31.83	31.93	32.01	32.08	32.16	32.29	32.38	32.46	32.53	32.57	0.1%
Compact Cars	30.96	31.12	31.23	31.31	31.38	31.43	31.47	31.53	31.63	31.70	31.76	31.81	31.84	0.1%
Midsize Cars	27.32	27.43	27.52	27.61	27.70	27.75	27.80	27.85	27.94	28.01	28.07	28.11	28.14	0.1%
Large Cars	25.47	25.61	25.72	25.82	25.92	26.00	26.06	26.14	26.24	26.32	26.40	26.46	26.50	0.1%
Two Seater Cars	25.76	25.89	26.00	26.11	26.21	26.28	26.33	26.39	26.48	26.55	26.63	26.68	26.72	0.2%
Small Pickup	23.45	23.64	23.86	24.05	24.23	24.35	24.49	24.65	24.84	24.98	25.10	25.19	25.26	0.5%
Large Pickup	19.83	19.98	20.13	20.29	20.43	20.54	20.64	20.74	20.86	20.96	21.04	21.10	21.17	0.4%
Small Van	23.65	23.76	23.88	24.00	24.10	24.19	24.29	24.40	24.56	24.67	24.79	24.87	24.95	0.2%
Large Van	19.25	19.43	19.59	19.76	19.90	20.03	20.13	20.24	20.40	20.53	20.63	20.71	20.80	0.5%
Small Utility	22.50	22.67	22.83	22.97	23.11	23.24	23.36	23.49	23.66	23.79	23.91	24.00	24.08	0.5%

**Table 57. New Light-Duty Vehicle Fuel Economy
(Miles per Gallon)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Large Utility	18.58	18.73	18.86	19.00	19.13	19.23	19.32	19.43	19.58	19.66	19.76	19.83	19.90	0.5%
Ethanol														
Mini-compact Cars	26.82	26.91	27.01	27.09	27.17	27.23	27.29	27.35	27.43	27.50	27.58	27.64	27.68	0.4%
Subcompact Cars	32.02	32.18	32.33	32.44	32.55	32.62	32.70	32.79	32.91	33.01	33.10	33.17	33.22	0.1%
Compact Cars	31.50	31.66	31.79	31.86	31.94	31.99	32.03	32.09	32.20	32.27	32.33	32.38	32.41	0.1%
Midsize Cars	27.82	27.93	28.03	28.13	28.22	28.27	28.33	28.39	28.48	28.55	28.61	28.66	28.69	0.1%
Large Cars	25.93	26.08	26.20	26.31	26.42	26.50	26.57	26.64	26.74	26.82	26.90	26.96	27.00	0.1%
Two Seater Cars	26.24	26.37	26.48	26.60	26.70	26.78	26.84	26.89	26.98	27.06	27.13	27.19	27.23	0.2%
Small Pickup	23.86	24.06	24.28	24.49	24.69	24.82	24.96	25.11	25.30	25.45	25.57	25.65	25.72	0.4%
Large Pickup	20.22	20.38	20.53	20.69	20.83	20.95	21.05	21.14	21.26	21.36	21.46	21.52	21.58	0.4%
Small Van	24.11	24.23	24.33	24.45	24.55	24.64	24.74	24.85	25.01	25.12	25.24	25.33	25.42	0.2%
Large Van	19.61	19.81	19.98	20.15	20.29	20.42	20.53	20.64	20.79	20.91	21.01	21.09	21.18	0.5%
Small Utility	22.93	23.10	23.25	23.40	23.54	23.67	23.79	23.93	24.10	24.23	24.35	24.45	24.54	0.5%
Large Utility	18.97	19.12	19.25	19.39	19.51	19.63	19.71	19.81	19.96	20.04	20.13	20.21	20.27	0.5%
Ethanol Flex														
Mini-compact Cars	26.13	26.22	26.30	26.36	26.43	26.49	26.54	26.59	26.67	26.74	26.81	26.87	26.90	0.4%
Subcompact Cars	31.14	31.29	31.43	31.53	31.63	31.70	31.77	31.86	31.98	32.07	32.15	32.22	32.26	0.1%
Compact Cars	30.69	30.86	30.96	31.03	31.10	31.15	31.19	31.25	31.35	31.42	31.49	31.53	31.56	0.1%
Midsize Cars	27.08	27.18	27.27	27.36	27.44	27.49	27.54	27.59	27.68	27.74	27.80	27.85	27.88	0.1%
Large Cars	25.24	25.38	25.49	25.59	25.69	25.77	25.83	25.90	26.01	26.09	26.17	26.22	26.26	0.1%
Two Seater Cars	25.53	25.65	25.77	25.88	25.98	26.05	26.10	26.16	26.25	26.32	26.39	26.45	26.48	0.2%
Small Pickup	23.25	23.44	23.65	23.85	24.02	24.14	24.26	24.42	24.61	24.75	24.87	24.96	25.03	0.5%
Large Pickup	19.63	19.78	19.93	20.09	20.22	20.34	20.44	20.53	20.66	20.76	20.84	20.90	20.97	0.4%
Small Van	23.43	23.55	23.67	23.79	23.88	23.98	24.07	24.18	24.34	24.46	24.57	24.65	24.73	0.2%
Large Van	19.08	19.25	19.40	19.56	19.70	19.84	19.93	20.05	20.20	20.33	20.43	20.52	20.61	0.5%
Small Utility	22.28	22.45	22.59	22.75	22.90	23.03	23.15	23.28	23.45	23.57	23.69	23.78	23.86	0.5%
Large Utility	18.41	18.55	18.67	18.81	18.94	19.04	19.13	19.24	19.38	19.47	19.56	19.64	19.71	0.5%
Compressed Natural Gas (CNG)														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compact Cars	32.70	32.82	32.92	32.97	33.01	33.02	33.03	33.05	33.13	33.17	33.21	33.22	33.23	0.1%
Midsize Cars	28.69	28.76	28.80	28.86	28.91	28.93	28.95	28.98	29.06	29.10	29.14	29.15	29.16	0.1%
Large Cars	26.65	26.76	26.84	26.93	27.01	27.06	27.10	27.17	27.25	27.31	27.36	27.39	27.42	0.0%
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	24.51	24.64	24.80	24.96	25.13	25.21	25.29	25.40	25.55	25.67	25.75	25.80	25.85	0.3%
Large Pickup	20.50	20.63	20.71	20.81	20.91	21.00	21.06	21.11	21.22	21.29	21.36	21.40	21.45	0.2%
Small Van	24.82	24.89	24.96	25.04	25.13	25.19	25.25	25.33	25.46	25.55	25.65	25.70	25.76	0.1%
Large Van	19.93	20.07	20.19	20.31	20.43	20.51	20.59	20.67	20.79	20.88	20.96	21.02	21.09	0.3%
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
CNG Bi-Fuel														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compact Cars	30.52	30.66	30.72	30.75	30.79	30.80	30.80	30.82	30.88	30.91	30.94	30.95	30.95	0.1%
Midsize Cars	26.79	26.85	26.89	26.94	26.97	26.99	26.99	27.00	27.05	27.09	27.12	27.13	27.14	0.1%
Large Cars	24.83	24.92	25.00	25.07	25.15	25.18	25.21	25.27	25.37	25.44	25.50	25.53	25.55	0.1%
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	22.99	23.12	23.28	23.40	23.53	23.61	23.70	23.81	23.96	24.05	24.13	24.17	24.21	0.4%
Large Pickup	19.19	19.27	19.37	19.46	19.54	19.61	19.64	19.70	19.81	19.86	19.92	19.96	20.00	0.2%
Small Van	23.20	23.29	23.36	23.45	23.51	23.57	23.63	23.72	23.85	23.94	24.02	24.07	24.12	0.2%
Large Van	18.68	18.78	18.87	18.97	19.07	19.13	19.18	19.27	19.39	19.47	19.55	19.62	19.68	0.4%
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A

**Table 57. New Light-Duty Vehicle Fuel Economy
(Miles per Gallon)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Liquefied Petroleum Gas (LPG)														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	31.91	32.04	32.16	32.26	32.34	32.41	32.46	32.54	32.66	32.74	32.81	32.87	32.91	0.1%
Compact Cars	31.49	31.63	31.75	31.81	31.87	31.90	31.94	31.99	32.08	32.14	32.20	32.24	32.27	0.1%
Midsize Cars	27.75	27.83	27.91	27.99	28.07	28.11	28.15	28.21	28.29	28.34	28.40	28.44	28.47	0.1%
Large Cars	25.86	26.00	26.11	26.21	26.30	26.37	26.43	26.49	26.58	26.66	26.73	26.78	26.81	0.1%
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	23.78	23.96	24.16	24.35	24.51	24.62	24.73	24.87	25.04	25.16	25.26	25.34	25.41	0.4%
Large Pickup	20.06	20.19	20.33	20.47	20.60	20.71	20.80	20.89	21.02	21.11	21.21	21.27	21.32	0.4%
Small Van	24.03	24.13	24.22	24.33	24.40	24.49	24.57	24.67	24.82	24.92	25.03	25.10	25.18	0.2%
Large Van	19.50	19.67	19.81	19.96	20.09	20.20	20.28	20.39	20.54	20.67	20.76	20.85	20.93	0.5%
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Utility	18.85	18.98	19.09	19.22	19.33	19.41	19.49	19.59	19.73	19.81	19.91	19.99	20.06	0.4%
LPG Bi-Fuel														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compact Cars	30.47	30.63	30.70	30.76	30.81	30.85	30.87	30.92	31.01	31.07	31.12	31.15	31.17	0.1%
Midsize Cars	26.80	26.88	26.96	27.03	27.09	27.13	27.16	27.20	27.27	27.32	27.37	27.41	27.43	0.1%
Large Cars	24.95	25.09	25.19	25.28	25.37	25.44	25.49	25.55	25.65	25.72	25.79	25.83	25.86	0.1%
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	22.98	23.15	23.35	23.50	23.66	23.78	23.89	24.02	24.19	24.30	24.40	24.46	24.51	0.4%
Large Pickup	19.31	19.43	19.56	19.69	19.80	19.90	19.96	20.04	20.16	20.25	20.32	20.37	20.43	0.3%
Small Van	23.18	23.28	23.38	23.49	23.57	23.65	23.73	23.84	23.99	24.09	24.19	24.26	24.32	0.2%
Large Van	18.83	18.96	19.09	19.22	19.35	19.46	19.53	19.63	19.77	19.86	19.95	20.04	20.12	0.4%
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Utility	18.12	18.24	18.35	18.47	18.58	18.66	18.73	18.83	18.96	19.03	19.12	19.18	19.25	0.4%
Electric														
Mini-compact Cars	42.83	42.79	42.77	42.74	42.71	42.68	42.64	42.62	42.64	42.67	42.70	42.72	42.74	1.9%
Subcompact Cars	53.31	53.28	53.25	53.21	53.18	53.14	53.11	53.07	53.11	53.14	53.17	53.19	53.22	1.8%
Compact Cars	52.20	52.17	52.14	52.10	52.07	52.04	52.01	51.97	52.01	52.04	52.07	52.10	52.12	1.8%
Midsize Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Two Seater Cars	49.25	49.21	49.18	49.15	49.12	49.09	49.06	49.02	49.06	49.09	49.12	49.14	49.16	1.8%
Small Pickup	40.31	40.26	40.21	40.15	40.09	40.04	39.98	39.92	39.93	39.95	39.96	39.96	39.96	1.8%
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Van	36.19	36.15	36.10	36.05	36.00	35.95	35.90	35.85	35.87	35.89	35.92	35.94	35.96	1.8%
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Diesel-Electric Hybrid														
Mini-compact Cars	37.99	37.97	37.97	37.97	37.97	37.97	37.96	37.96	38.01	38.04	38.07	38.09	38.10	-0.1%
Subcompact Cars	46.72	46.67	46.63	46.60	46.58	46.56	46.53	46.51	46.55	46.57	46.59	46.60	46.61	-0.2%
Compact Cars	45.64	45.57	45.51	45.47	45.43	45.39	45.34	45.31	45.33	45.33	45.33	45.31	45.31	-0.3%
Midsize Cars	40.25	40.20	40.15	40.12	40.10	40.06	40.02	40.00	40.02	40.03	40.04	40.03	40.02	-0.3%
Large Cars	38.24	38.24	38.24	38.24	38.25	38.26	38.25	38.26	38.31	38.34	38.37	38.39	38.40	-0.2%
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Van	35.14	35.12	35.10	35.09	35.09	35.09	35.08	35.09	35.16	35.22	35.27	35.30	35.33	-0.2%
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Utility	32.27	32.29	32.31	32.33	32.36	32.38	32.40	32.44	32.53	32.60	32.67	32.72	32.77	-0.1%
Large Utility	26.89	26.91	26.94	26.99	27.03	27.05	27.08	27.11	27.17	27.24	27.30	27.34	27.39	-0.1%

Gasoline-Electric Hybrid

**Table 57. New Light-Duty Vehicle Fuel Economy
(Miles per Gallon)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Mini-compact Cars	34.79	34.79	34.80	34.81	34.82	34.82	34.82	34.83	34.88	34.92	34.96	34.98	35.00	-0.1%
Subcompact Cars	42.84	42.81	42.78	42.77	42.77	42.76	42.74	42.74	42.79	42.82	42.84	42.85	42.87	-0.2%
Compact Cars	42.05	42.00	41.96	41.94	41.92	41.89	41.85	41.83	41.86	41.88	41.89	41.88	41.89	-0.2%
Midsize Cars	36.97	36.94	36.92	36.91	36.90	36.88	36.85	36.84	36.86	36.88	36.89	36.88	36.89	-0.2%
Large Cars	34.79	34.81	34.82	34.84	34.86	34.87	34.88	34.90	34.96	34.99	35.03	35.05	35.07	-0.2%
Two Seater Cars	34.79	34.81	34.82	34.84	34.85	34.86	34.86	34.87	34.92	34.96	35.00	35.02	35.03	-0.1%
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Van	31.82	31.82	31.81	31.82	31.84	31.84	31.84	31.87	31.95	32.01	32.07	32.11	32.14	-0.2%
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Utility	29.20	29.23	29.26	29.29	29.33	29.35	29.38	29.43	29.52	29.59	29.66	29.72	29.77	-0.1%
Large Utility	24.50	24.53	24.55	24.59	24.64	24.65	24.67	24.72	24.83	24.91	24.98	25.03	25.08	0.0%
Fuel Cell Methanol														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compact Cars	53.09	53.06	53.03	52.99	52.96	52.93	52.89	52.86	52.90	52.93	52.96	52.99	53.01	-0.3%
Midsize Cars	45.49	45.45	45.42	45.39	45.36	45.33	45.30	45.26	45.29	45.32	45.35	45.36	45.38	-0.3%
Large Cars	40.87	40.84	40.81	40.78	40.75	40.73	40.70	40.67	40.69	40.72	40.73	40.75	40.77	-0.3%
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Van	36.81	36.76	36.72	36.67	36.62	36.56	36.51	36.46	36.48	36.51	36.53	36.56	36.58	-0.3%
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Utility	38.80	38.75	38.70	38.64	38.58	38.52	38.46	38.40	38.43	38.45	38.47	38.49	38.51	-0.3%
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Hydrogen														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compact Cars	58.22	58.18	58.14	58.11	58.07	58.03	58.00	57.96	58.00	58.04	58.07	58.10	58.12	-0.3%
Midsize Cars	49.87	49.84	49.80	49.77	49.74	49.70	49.67	49.63	49.66	49.69	49.72	49.74	49.76	-0.3%
Large Cars	44.82	44.79	44.75	44.71	44.68	44.66	44.63	44.59	44.62	44.64	44.66	44.69	44.71	-0.3%
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Van	40.36	40.31	40.26	40.21	40.15	40.09	40.03	39.98	40.00	40.03	40.06	40.08	40.11	-0.3%
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Utility	42.55	42.49	42.43	42.37	42.30	42.23	42.17	42.11	42.13	42.16	42.18	42.21	42.23	-0.3%
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell Gasoline														
Mini-compact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Subcompact Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Compact Cars	49.75	49.72	49.69	49.66	49.63	49.59	49.56	49.53	49.57	49.60	49.63	49.65	49.67	-0.3%
Midsize Cars	42.62	42.59	42.56	42.53	42.51	42.47	42.45	42.41	42.44	42.47	42.49	42.51	42.53	-0.3%
Large Cars	38.30	38.27	38.24	38.21	38.19	38.16	38.14	38.11	38.13	38.15	38.17	38.19	38.21	-0.3%
Two Seater Cars	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Large Pickup	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Van	34.49	34.45	34.41	34.36	34.31	34.26	34.21	34.16	34.18	34.21	34.23	34.25	34.27	-0.3%
Large Van	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Small Utility	36.36	36.31	36.26	36.20	36.15	36.09	36.04	35.99	36.01	36.03	36.05	36.07	36.09	-0.3%
Large Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A

**Table 57. New Light-Duty Vehicle Fuel Economy
(Miles per Gallon)**

Sources: 2001 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); National Highway Traffic and Safety Administration, Mid-Model Year Fuel Economy Reports from Auto Manufacturers, 2000; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 58. New Light-Duty Vehicle Prices
(Thousand 2001 Dollars)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Gasoline													
Mini-compact Cars	53.4	53.4	53.5	53.5	53.5	53.7	53.9	54.1	54.2	54.3	54.3	54.4	54.4
Subcompact Cars	18.4	18.4	18.5	18.5	18.5	18.7	18.9	19.0	19.1	19.2	19.2	19.3	19.3
Compact Cars	18.6	18.6	18.7	18.7	18.8	18.9	19.1	19.3	19.4	19.5	19.5	19.6	19.6
Midsize Cars	25.0	25.0	25.1	25.1	25.1	25.3	25.5	25.7	25.8	25.9	25.9	26.0	26.0
Large Cars	29.5	29.6	29.6	29.6	29.6	29.8	30.0	30.1	30.2	30.2	30.3	30.3	30.4
Two Seater Cars	42.5	42.5	42.6	42.6	42.6	42.7	42.9	43.1	43.2	43.2	43.3	43.3	43.4
Small Pickup	17.4	17.5	17.5	17.5	17.6	17.6	18.1	18.2	18.4	18.4	18.5	18.5	18.6
Large Pickup	24.3	24.4	24.4	24.4	24.4	24.5	24.9	25.1	25.2	25.3	25.3	25.4	25.4
Small Van	25.7	25.7	25.8	25.8	25.8	25.8	26.3	26.4	26.6	26.6	26.7	26.7	26.8
Large Van	22.0	22.0	22.1	22.1	22.1	22.2	22.6	22.8	22.9	23.0	23.0	23.1	23.1
Small Utility	26.6	26.7	26.7	26.7	26.8	26.8	27.3	27.4	27.6	27.6	27.7	27.7	27.8
Large Utility	34.1	34.2	34.2	34.2	34.3	34.3	34.8	34.9	35.0	35.1	35.2	35.2	35.3
Turbo Direct Injection Diesel													
Mini-compact Cars	54.9	54.9	55.0	55.0	55.0	55.2	55.4	55.5	55.6	55.7	55.7	55.7	55.7
Subcompact Cars	19.9	19.9	20.0	20.0	20.0	20.2	20.3	20.5	20.6	20.6	20.7	20.7	20.8
Compact Cars	20.1	20.1	20.2	20.2	20.2	20.4	20.5	20.7	20.8	20.8	20.9	20.9	21.0
Midsize Cars	27.3	27.2	27.3	27.3	27.3	27.5	27.7	27.8	27.9	28.0	28.0	28.1	28.1
Large Cars	31.8	31.8	31.9	31.9	31.9	32.0	32.2	32.3	32.4	32.5	32.5	32.5	32.6
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	20.5	19.9	20.0	20.0	20.0	20.1	20.5	20.7	20.8	20.8	20.9	20.9	21.0
Large Pickup	26.6	25.9	25.9	25.9	26.0	26.0	26.4	26.6	26.7	26.7	26.8	26.8	26.9
Small Van	28.7	27.9	28.0	27.9	27.9	28.0	28.4	28.6	28.7	28.7	28.7	28.8	28.8
Large Van	24.3	24.0	24.1	24.1	24.1	24.1	24.6	24.7	24.8	24.9	24.9	25.0	25.0
Small Utility	29.6	28.7	28.7	28.7	28.8	28.8	29.2	29.4	29.5	29.6	29.6	29.7	29.7
Large Utility	36.4	35.7	35.7	35.7	35.8	35.8	36.2	36.4	36.5	36.5	36.6	36.6	36.7
Methanol													
Mini-compact Cars	55.4	55.4	55.4	55.5	55.5	55.6	55.9	56.0	56.2	56.2	56.3	56.3	56.3
Subcompact Cars	20.3	20.4	20.4	20.4	20.5	20.6	20.8	20.9	21.1	21.1	21.2	21.2	21.2
Compact Cars	20.6	20.6	20.7	20.7	20.7	20.9	21.1	21.2	21.4	21.4	21.5	21.5	21.6
Midsize Cars	27.1	27.2	27.2	27.2	27.3	27.4	27.6	27.8	27.9	28.0	28.0	28.1	28.1
Large Cars	31.7	31.7	31.7	31.7	31.7	31.9	32.1	32.2	32.3	32.3	32.4	32.4	32.5
Two Seater Cars	44.5	44.5	44.5	44.5	44.5	44.7	44.9	45.0	45.1	45.2	45.2	45.3	45.3
Small Pickup	19.7	19.8	19.8	19.8	19.9	19.9	20.4	20.5	20.6	20.7	20.7	20.8	20.8
Large Pickup	26.5	26.5	26.6	26.6	26.6	26.6	27.0	27.2	27.3	27.3	27.4	27.4	27.5
Small Van	28.0	28.0	28.1	28.1	28.1	28.1	28.6	28.7	28.8	28.9	28.9	29.0	29.0
Large Van	24.1	24.2	24.2	24.2	24.2	24.3	24.7	24.9	25.0	25.1	25.1	25.1	25.2
Small Utility	28.9	29.0	29.0	29.0	29.0	29.1	29.5	29.6	29.8	29.8	29.8	29.9	29.9
Large Utility	36.3	36.3	36.4	36.4	36.4	36.4	36.9	37.0	37.1	37.2	37.2	37.3	37.3
Methanol Flex													
Mini-compact Cars	55.5	55.5	55.6	55.6	55.6	55.8	56.0	56.2	56.3	56.4	56.4	56.4	56.5
Subcompact Cars	20.4	20.5	20.6	20.6	20.6	20.7	20.9	21.1	21.2	21.2	21.3	21.3	21.4
Compact Cars	20.7	20.7	20.8	20.8	20.8	21.0	21.2	21.4	21.5	21.5	21.6	21.7	21.7
Midsize Cars	27.3	27.3	27.4	27.4	27.4	27.6	27.8	28.0	28.1	28.1	28.2	28.3	28.3
Large Cars	31.9	31.9	31.9	31.9	31.9	32.1	32.3	32.4	32.5	32.5	32.6	32.6	32.7
Two Seater Cars	44.6	44.6	44.6	44.6	44.7	44.8	45.0	45.2	45.3	45.3	45.4	45.4	45.4

**Table 58. New Light-Duty Vehicle Prices
(Thousand 2001 Dollars)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Small Pickup	20.0	20.0	20.1	20.1	20.1	20.1	20.6	20.7	20.9	20.9	21.0	21.0	21.1
Large Pickup	26.6	26.7	26.7	26.7	26.7	26.8	27.2	27.4	27.5	27.6	27.6	27.7	27.7
Small Van	28.2	28.2	28.3	28.3	28.3	28.4	28.8	29.0	29.1	29.1	29.2	29.2	29.3
Large Van	24.3	24.3	24.4	24.4	24.4	24.5	24.9	25.1	25.2	25.3	25.3	25.4	25.4
Small Utility	29.1	29.2	29.3	29.3	29.3	29.3	29.8	29.9	30.1	30.1	30.1	30.2	30.2
Large Utility	36.4	36.5	36.5	36.5	36.6	36.6	37.1	37.2	37.3	37.4	37.5	37.5	37.6
Ethanol													
Mini-compact Cars	55.4	55.4	55.4	55.5	55.5	55.7	55.9	56.0	56.2	56.2	56.3	56.3	56.3
Subcompact Cars	20.3	20.4	20.4	20.4	20.5	20.6	20.8	20.9	21.1	21.1	21.2	21.2	21.3
Compact Cars	20.6	20.6	20.7	20.7	20.7	20.9	21.1	21.2	21.4	21.4	21.5	21.5	21.6
Midsize Cars	27.1	27.2	27.2	27.2	27.3	27.4	27.6	27.8	27.9	28.0	28.0	28.1	28.1
Large Cars	31.7	31.7	31.7	31.7	31.7	31.9	32.1	32.2	32.3	32.4	32.4	32.5	32.5
Two Seater Cars	44.5	44.5	44.5	44.5	44.6	44.7	44.9	45.0	45.2	45.2	45.2	45.3	45.3
Small Pickup	19.7	19.8	19.8	19.8	19.9	19.9	20.4	20.5	20.6	20.7	20.8	20.8	20.8
Large Pickup	26.5	26.5	26.6	26.6	26.6	26.6	27.1	27.2	27.3	27.4	27.4	27.5	27.5
Small Van	28.0	28.0	28.1	28.1	28.1	28.1	28.6	28.7	28.8	28.9	28.9	29.0	29.0
Large Van	24.1	24.2	24.2	24.2	24.2	24.3	24.7	24.9	25.0	25.1	25.1	25.2	25.2
Small Utility	28.9	29.0	29.0	29.0	29.0	29.1	29.5	29.7	29.8	29.8	29.9	29.9	30.0
Large Utility	36.3	36.3	36.4	36.4	36.4	36.4	36.9	37.0	37.2	37.2	37.3	37.3	37.4
Ethanol Flex													
Mini-compact Cars	55.5	55.5	55.6	55.6	55.6	55.8	56.0	56.2	56.3	56.4	56.4	56.4	56.5
Subcompact Cars	20.4	19.8	19.9	19.8	19.9	20.1	20.2	20.4	20.5	20.5	20.6	20.6	20.6
Compact Cars	20.7	19.4	19.5	19.4	19.5	19.7	19.9	20.0	20.1	20.2	20.2	20.3	20.3
Midsize Cars	27.3	25.4	25.4	25.4	25.5	25.6	25.9	26.0	26.1	26.2	26.3	26.3	26.4
Large Cars	31.9	30.4	30.5	30.6	30.5	30.7	30.9	31.0	31.1	31.2	31.2	31.2	31.3
Two Seater Cars	44.6	44.6	44.6	44.7	44.7	44.8	45.0	45.2	45.3	45.3	45.4	45.4	45.4
Small Pickup	20.0	19.3	19.4	19.5	19.4	19.5	20.0	20.1	20.2	20.2	20.3	20.3	20.4
Large Pickup	26.6	25.4	25.5	25.5	25.5	25.6	26.0	26.1	26.3	26.3	26.3	26.4	26.4
Small Van	28.2	26.9	26.9	26.8	26.9	27.0	27.4	27.5	27.6	27.6	27.7	27.7	27.7
Large Van	24.3	24.3	24.4	24.4	24.4	24.5	24.9	25.1	25.2	25.3	25.3	25.4	25.4
Small Utility	29.1	27.0	27.1	27.1	27.1	27.2	27.6	27.8	27.9	28.0	28.0	28.0	28.1
Large Utility	36.4	34.8	34.9	34.9	34.9	35.0	35.4	35.5	35.7	35.7	35.7	35.8	35.8
Compressed Natural Gas (CNG)													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	24.7	24.8	24.8	24.9	24.9	25.1	25.3	25.4	25.6	25.6	25.7	25.7	25.8
Midsize Cars	31.4	31.5	31.5	31.5	31.6	31.8	32.0	32.1	32.2	32.3	32.4	32.4	32.5
Large Cars	36.0	36.0	36.0	36.0	36.1	36.2	36.4	36.5	36.6	36.7	36.7	36.8	36.8
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	24.2	24.2	24.3	24.3	24.3	24.4	24.9	25.0	25.2	25.2	25.3	25.3	25.4
Large Pickup	30.8	30.8	30.9	30.9	30.9	30.9	31.4	31.6	31.7	31.7	31.8	31.9	31.9
Small Van	32.5	32.5	32.5	32.6	32.6	32.6	33.1	33.2	33.4	33.4	33.5	33.5	33.6
Large Van	28.4	28.5	28.5	28.5	28.6	28.6	29.1	29.2	29.4	29.4	29.5	29.5	29.6
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CNG Bi-Fuel													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	23.6	23.6	23.7	23.7	23.8	23.9	24.2	24.3	24.5	24.5	24.6	24.7	24.7

**Table 58. New Light-Duty Vehicle Prices
(Thousand 2001 Dollars)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Midsize Cars	30.5	30.5	30.6	30.6	30.6	30.8	31.0	31.2	31.3	31.4	31.5	31.5	31.6
Large Cars	35.0	35.1	35.1	35.1	35.1	35.3	35.5	35.6	35.7	35.7	35.8	35.8	35.9
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	23.4	23.5	23.6	23.6	23.6	23.6	24.1	24.3	24.4	24.5	24.6	24.6	24.7
Large Pickup	29.8	29.9	29.9	29.9	30.0	30.0	30.5	30.6	30.8	30.8	30.9	31.0	31.0
Small Van	31.7	31.7	31.8	31.8	31.8	31.9	32.3	32.5	32.6	32.7	32.7	32.8	32.9
Large Van	27.5	27.5	27.6	27.6	27.6	27.7	28.1	28.3	28.4	28.5	28.6	28.6	28.7
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquefied Petroleum Gas (LPG)													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	23.0	23.0	23.1	23.1	23.1	23.3	23.5	23.6	23.8	23.8	23.9	23.9	24.0
Compact Cars	23.3	23.3	23.4	23.4	23.4	23.6	23.8	23.9	24.1	24.1	24.2	24.2	24.3
Midsize Cars	30.7	30.8	30.9	30.9	30.9	31.1	31.3	31.4	31.5	31.6	31.7	31.7	31.8
Large Cars	35.3	35.3	35.4	35.4	35.4	35.5	35.7	35.8	35.9	36.0	36.0	36.1	36.1
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	24.3	24.3	24.4	24.4	24.5	24.5	25.0	25.1	25.2	25.3	25.4	25.4	25.5
Large Pickup	30.1	30.1	30.2	30.2	30.2	30.2	30.7	30.8	31.0	31.0	31.1	31.1	31.2
Small Van	32.6	32.6	32.7	32.7	32.7	32.7	33.2	33.3	33.4	33.5	33.5	33.6	33.6
Large Van	27.8	27.8	27.9	27.9	27.9	27.9	28.4	28.5	28.7	28.7	28.8	28.8	28.9
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	39.9	39.9	40.0	40.0	40.0	40.0	40.5	40.7	40.8	40.9	40.9	41.0	41.0
LPG Bi-Fuel													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	23.1	23.1	23.2	23.2	23.3	23.4	23.6	23.8	23.9	24.0	24.1	24.1	24.2
Midsize Cars	29.7	29.7	29.8	29.8	29.8	30.0	30.2	30.4	30.5	30.6	30.6	30.7	30.8
Large Cars	34.2	34.2	34.3	34.3	34.3	34.4	34.6	34.8	34.9	34.9	35.0	35.0	35.1
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	22.3	22.4	22.4	22.4	22.5	22.5	23.0	23.1	23.3	23.3	23.4	23.4	23.5
Large Pickup	29.0	29.0	29.1	29.1	29.1	29.2	29.6	29.8	29.9	30.0	30.1	30.1	30.2
Small Van	30.6	30.6	30.7	30.7	30.7	30.7	31.2	31.3	31.5	31.5	31.6	31.6	31.7
Large Van	26.7	26.7	26.8	26.8	26.8	26.9	27.3	27.5	27.6	27.7	27.7	27.8	27.9
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	38.8	38.9	38.9	38.9	38.9	39.0	39.4	39.6	39.7	39.8	39.9	39.9	40.0
Electric													
Mini-compact Cars	78.6	78.5	78.1	77.7	77.6	78.3	79.0	79.6	79.4	79.0	78.6	78.3	77.9
Subcompact Cars	41.4	41.3	41.0	40.7	40.6	41.1	41.7	42.2	42.0	41.7	41.4	41.1	40.9
Compact Cars	41.8	41.7	41.4	41.1	41.0	41.6	42.1	42.7	42.5	42.2	41.9	41.6	41.3
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Two Seater Cars	66.2	66.2	65.8	65.5	65.4	66.0	66.6	67.2	67.0	66.6	66.3	64.6	63.3
Small Pickup	43.1	43.0	42.6	42.2	42.1	42.8	43.6	44.3	44.1	43.7	43.3	43.0	42.6
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	52.6	52.6	52.1	51.7	51.6	52.3	53.1	51.9	51.1	49.7	49.9	48.6	48.8
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel-Electric Hybrid													

**Table 58. New Light-Duty Vehicle Prices
(Thousand 2001 Dollars)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Mini-compact Cars	64.2	63.3	62.4	61.5	60.5	60.6	60.6	60.7	60.7	60.6	60.6	60.5	60.5
Subcompact Cars	27.7	27.0	26.3	25.6	24.8	24.9	25.0	25.0	25.0	25.0	24.9	24.8	24.7
Compact Cars	28.1	27.3	26.7	25.9	25.1	25.2	25.3	24.9	24.2	24.1	24.0	23.9	23.8
Midsize Cars	36.1	35.2	34.4	33.5	32.4	32.5	31.7	30.6	29.8	29.7	29.6	29.5	29.4
Large Cars	41.4	40.5	39.5	38.5	37.5	37.5	37.6	37.1	36.2	36.1	36.0	35.8	35.7
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	39.0	38.0	36.9	35.9	34.7	34.6	34.9	34.9	33.9	33.7	33.6	33.4	33.3
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	39.5	38.5	37.6	36.5	35.4	35.3	35.3	34.3	33.3	33.2	33.1	32.9	32.8
Large Utility	49.1	47.8	46.5	45.1	43.6	43.5	43.8	43.8	43.4	43.3	43.1	42.9	42.8
Gasoline-Electric Hybrid													
Mini-compact Cars	62.2	61.5	60.8	60.1	59.2	59.3	59.4	59.5	59.5	59.5	59.4	59.4	59.4
Subcompact Cars	26.0	25.4	24.9	23.7	22.7	22.8	22.3	21.6	21.1	21.1	21.1	21.1	21.0
Compact Cars	26.3	25.0	24.2	23.0	22.0	22.1	21.6	21.4	21.4	21.4	21.4	21.4	21.4
Midsize Cars	34.2	31.1	30.2	29.2	28.0	28.1	28.1	28.1	28.2	28.1	28.1	28.1	28.0
Large Cars	39.4	37.7	36.6	35.5	34.2	34.2	33.6	32.9	32.9	32.8	32.8	32.8	32.7
Two Seater Cars	50.5	49.9	49.3	48.6	47.9	48.0	48.1	48.2	47.9	47.8	47.7	47.6	47.6
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	36.8	35.1	33.8	32.2	30.7	30.6	30.4	29.5	29.5	29.5	29.4	29.4	29.3
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	37.4	34.6	33.5	32.1	30.7	30.6	30.3	30.3	30.3	30.2	30.2	30.2	30.1
Large Utility	46.5	45.4	44.1	42.4	40.6	40.5	40.2	39.4	38.8	38.7	38.7	38.6	38.5
Fuel Cell Methanol													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	78.7	76.9	75.2	73.4	71.0	68.8	66.7	64.6
Midsize Cars	0.0	0.0	0.0	0.0	0.0	94.7	92.5	90.4	88.3	85.6	83.1	80.5	78.1
Large Cars	0.0	0.0	0.0	0.0	0.0	106.7	104.3	102.0	99.6	96.6	93.8	91.0	88.3
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	109.9	108.1	105.6	103.0	99.7	96.6	93.5	90.6
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	106.7	105.0	102.6	100.1	97.0	94.0	91.1	88.3
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Hydrogen													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	68.0	66.7	65.5	64.3	62.7	61.1	59.6	58.2
Midsize Cars	0.0	0.0	0.0	0.0	0.0	81.0	79.5	78.1	76.7	74.8	73.0	71.2	69.6
Large Cars	0.0	0.0	0.0	0.0	0.0	90.8	89.0	87.5	85.9	83.8	81.8	79.8	78.1
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	91.8	90.5	88.8	87.1	84.8	82.6	80.4	78.5
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	89.9	88.6	87.0	85.4	83.2	81.1	79.0	77.2

**Table 58. New Light-Duty Vehicle Prices
(Thousand 2001 Dollars)**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cell Gasoline													
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compact Cars	0.0	0.0	0.0	0.0	0.0	87.4	85.4	83.3	81.3	78.6	76.0	73.5	71.1
Midsize Cars	0.0	0.0	0.0	0.0	0.0	104.9	102.4	99.9	97.5	94.4	91.4	88.5	85.8
Large Cars	0.0	0.0	0.0	0.0	0.0	118.0	115.3	112.6	109.9	106.4	103.1	99.9	96.8
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Van	0.0	0.0	0.0	0.0	0.0	122.3	120.3	117.3	114.3	110.5	106.9	103.3	100.0
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Small Utility	0.0	0.0	0.0	0.0	0.0	118.5	116.5	113.7	110.9	107.3	103.8	100.4	97.3
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Table 58. New Light-Duty Vehicle Prices
(Thousand 2001 Dollars)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Gasoline														
Mini-compact Cars	54.4	54.5	54.5	54.6	54.6	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	0.1%
Subcompact Cars	19.4	19.4	19.4	19.5	19.5	19.5	19.6	19.6	19.6	19.6	19.7	19.7	19.7	0.3%
Compact Cars	19.7	19.7	19.8	19.8	19.9	19.9	19.9	19.9	20.0	20.0	20.0	20.0	20.0	0.3%
Midsize Cars	26.1	26.1	26.2	26.2	26.3	26.3	26.3	26.4	26.4	26.4	26.4	26.5	26.5	0.2%
Large Cars	30.4	30.5	30.5	30.6	30.6	30.6	30.7	30.7	30.7	30.8	30.8	30.8	30.8	0.2%
Two Seater Cars	43.4	43.4	43.5	43.5	43.5	43.5	43.5	43.6	43.6	43.6	43.6	43.6	43.6	0.1%
Small Pickup	18.6	18.7	18.8	18.8	18.8	18.8	18.9	18.9	18.9	18.9	19.0	19.0	19.0	0.3%
Large Pickup	25.5	25.6	25.6	25.7	25.7	25.7	25.8	25.8	25.8	25.8	25.8	25.9	25.9	0.3%
Small Van	26.8	26.9	26.9	27.0	27.0	27.0	27.1	27.1	27.1	27.2	27.2	27.2	27.3	0.2%
Large Van	23.2	23.3	23.3	23.4	23.4	23.5	23.5	23.5	23.6	23.6	23.6	23.7	23.7	0.3%
Small Utility	27.8	27.9	27.9	27.9	28.0	28.0	28.1	28.1	28.1	28.2	28.2	28.2	28.2	0.2%
Large Utility	35.3	35.4	35.4	35.5	35.5	35.6	35.6	35.7	35.7	35.7	35.8	35.8	35.8	0.2%
Turbo Direct Injection Diesel														
Mini-compact Cars	55.7	55.7	55.8	55.8	55.8	55.8	55.9	55.9	55.9	55.9	55.9	55.9	56.0	0.1%
Subcompact Cars	20.8	20.8	20.8	20.9	20.9	20.9	20.9	21.0	21.0	21.0	21.0	20.9	20.9	0.2%
Compact Cars	21.0	21.0	21.1	21.1	21.1	21.2	21.2	21.2	21.2	21.3	21.3	21.3	21.3	0.2%
Midsize Cars	28.1	28.1	28.2	28.2	28.2	28.3	28.3	28.3	28.3	28.4	28.4	28.4	28.4	0.2%
Large Cars	32.6	32.6	32.6	32.7	32.7	32.7	32.8	32.8	32.8	32.8	32.8	32.9	32.9	0.1%
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	21.0	21.0	21.1	21.1	21.1	21.1	21.1	21.1	21.2	21.2	21.2	21.2	21.1	0.2%
Large Pickup	26.9	27.0	27.0	27.0	27.0	27.1	27.1	27.1	27.1	27.2	27.2	27.2	27.2	0.2%
Small Van	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	0.2%
Large Van	25.0	25.1	25.1	25.1	25.2	25.2	25.2	25.2	25.3	25.3	25.3	25.3	25.4	0.2%
Small Utility	29.7	29.8	29.8	29.8	29.9	29.9	29.9	29.9	30.0	30.0	30.0	30.0	30.1	0.2%
Large Utility	36.7	36.8	36.8	36.8	36.9	36.9	36.9	37.0	37.0	37.0	37.1	37.1	37.1	0.2%
Methanol														
Mini-compact Cars	56.3	56.3	56.4	56.4	56.4	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.5	0.1%
Subcompact Cars	21.3	21.3	21.3	21.4	21.4	21.4	21.4	21.5	21.5	21.5	21.5	21.5	21.5	0.2%
Compact Cars	21.6	21.7	21.7	21.7	21.8	21.8	21.8	21.8	21.9	21.9	21.9	21.9	21.9	0.3%
Midsize Cars	28.2	28.2	28.3	28.3	28.3	28.4	28.4	28.4	28.4	28.5	28.5	28.5	28.5	0.2%
Large Cars	32.5	32.6	32.6	32.6	32.7	32.7	32.7	32.8	32.8	32.8	32.8	32.8	32.8	0.1%
Two Seater Cars	45.3	45.3	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.5	45.5	45.5	45.5	0.1%
Small Pickup	20.9	20.9	20.9	21.0	21.0	21.0	21.0	21.0	21.1	21.1	21.1	21.1	21.1	0.3%
Large Pickup	27.5	27.5	27.6	27.6	27.6	27.7	27.7	27.7	27.8	27.8	27.8	27.8	27.8	0.2%
Small Van	29.1	29.1	29.1	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.4	29.4	29.4	0.2%
Large Van	25.2	25.3	25.3	25.3	25.4	25.4	25.4	25.5	25.5	25.5	25.6	25.6	25.6	0.2%
Small Utility	30.0	30.0	30.0	30.1	30.1	30.1	30.2	30.2	30.2	30.3	30.3	30.3	30.3	0.2%
Large Utility	37.4	37.4	37.4	37.5	37.5	37.6	37.6	37.6	37.6	37.7	37.7	37.7	37.7	0.2%
Methanol Flex														
Mini-compact Cars	56.5	56.5	56.6	56.6	56.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	0.1%
Subcompact Cars	21.4	21.5	21.5	21.5	21.6	21.6	21.6	21.6	21.7	21.7	21.7	21.7	21.7	0.2%
Compact Cars	21.8	21.8	21.8	21.9	21.9	21.9	22.0	22.0	22.0	22.0	22.1	22.1	22.1	0.3%
Midsize Cars	28.4	28.4	28.5	28.5	28.6	28.6	28.6	28.6	28.7	28.7	28.7	28.7	28.7	0.2%
Large Cars	32.7	32.8	32.8	32.8	32.9	32.9	32.9	33.0	33.0	33.0	33.0	33.1	33.1	0.2%
Two Seater Cars	45.5	45.5	45.5	45.5	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.7	45.7	0.1%

**Table 58. New Light-Duty Vehicle Prices
(Thousand 2001 Dollars)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Small Pickup	21.2	21.2	21.2	21.3	21.3	21.3	21.3	21.4	21.4	21.4	21.4	21.4	21.4	0.3%
Large Pickup	27.8	27.8	27.8	27.9	27.9	27.9	28.0	28.0	28.0	28.0	28.1	28.1	28.1	0.2%
Small Van	29.3	29.4	29.4	29.4	29.5	29.5	29.6	29.6	29.6	29.7	29.7	29.7	29.7	0.2%
Large Van	25.5	25.5	25.6	25.6	25.7	25.7	25.7	25.8	25.8	25.8	25.8	25.9	25.9	0.3%
Small Utility	30.3	30.3	30.4	30.4	30.4	30.5	30.5	30.5	30.6	30.6	30.6	30.7	30.7	0.2%
Large Utility	37.6	37.7	37.7	37.7	37.8	37.8	37.9	37.9	37.9	37.9	38.0	38.0	38.0	0.2%
Ethanol														
Mini-compact Cars	56.4	56.4	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.6	56.6	56.6	56.6	0.1%
Subcompact Cars	21.3	21.3	21.4	21.4	21.4	21.4	21.5	21.5	21.5	21.5	21.5	21.6	21.6	0.2%
Compact Cars	21.6	21.7	21.7	21.7	21.8	21.8	21.8	21.9	21.9	21.9	21.9	21.9	21.9	0.3%
Midsize Cars	28.2	28.2	28.3	28.3	28.4	28.4	28.4	28.4	28.5	28.5	28.5	28.5	28.5	0.2%
Large Cars	32.5	32.6	32.6	32.7	32.7	32.7	32.8	32.8	32.8	32.8	32.8	32.9	32.9	0.2%
Two Seater Cars	45.3	45.4	45.4	45.4	45.4	45.4	45.4	45.5	45.5	45.5	45.5	45.5	45.5	0.1%
Small Pickup	20.9	20.9	21.0	21.0	21.0	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.2	0.3%
Large Pickup	27.6	27.6	27.6	27.7	27.7	27.7	27.8	27.8	27.8	27.8	27.8	27.9	27.9	0.2%
Small Van	29.1	29.1	29.2	29.2	29.2	29.3	29.3	29.3	29.4	29.4	29.4	29.4	29.5	0.2%
Large Van	25.3	25.3	25.4	25.4	25.4	25.5	25.5	25.5	25.6	25.6	25.6	25.6	25.7	0.2%
Small Utility	30.0	30.0	30.1	30.1	30.2	30.2	30.2	30.3	30.3	30.3	30.4	30.4	30.4	0.2%
Large Utility	37.4	37.4	37.5	37.5	37.6	37.6	37.6	37.7	37.7	37.7	37.8	37.8	37.8	0.2%
Ethanol Flex														
Mini-compact Cars	56.5	56.5	56.6	56.6	56.6	56.7	56.7	56.7	56.7	56.7	56.8	56.8	56.8	0.1%
Subcompact Cars	20.7	20.7	20.7	20.7	20.8	20.8	20.8	20.9	20.9	20.9	20.9	20.9	20.9	0.2%
Compact Cars	20.4	20.4	20.4	20.4	20.5	20.5	20.5	20.6	20.6	20.6	20.6	20.6	20.7	0.3%
Midsize Cars	26.4	26.5	26.5	26.6	26.6	26.6	26.7	26.7	26.7	26.7	26.8	26.8	26.8	0.2%
Large Cars	31.3	31.3	31.4	31.4	31.4	31.5	31.5	31.5	31.6	31.6	31.6	31.6	31.7	0.2%
Two Seater Cars	45.5	45.5	45.5	45.5	45.6	45.6	45.6	45.6	45.6	45.6	45.7	45.7	45.7	0.1%
Small Pickup	20.4	20.4	20.4	20.5	20.5	20.5	20.6	20.6	20.6	20.6	20.6	20.6	20.7	0.3%
Large Pickup	26.5	26.5	26.5	26.5	26.6	26.6	26.6	26.7	26.7	26.7	26.7	26.7	26.8	0.2%
Small Van	27.8	27.8	27.8	27.9	27.9	27.9	28.0	28.0	28.1	28.1	28.1	28.1	28.1	0.2%
Large Van	25.5	25.5	25.6	25.6	25.7	25.7	25.7	25.8	25.8	25.8	25.9	25.9	25.9	0.3%
Small Utility	28.1	28.2	28.2	28.3	28.3	28.3	28.4	28.4	28.5	28.5	28.5	28.5	28.5	0.2%
Large Utility	35.9	35.9	35.9	36.0	36.0	36.1	36.1	36.1	36.2	36.2	36.2	36.2	36.3	0.2%
Compressed Natural Gas (CNG)														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Compact Cars	25.9	25.9	26.0	26.0	26.0	26.1	26.1	26.2	26.2	26.2	26.2	26.2	26.3	0.2%
Midsize Cars	32.6	32.6	32.7	32.7	32.8	32.8	32.8	32.9	32.9	32.9	33.0	33.0	33.0	0.2%
Large Cars	36.9	36.9	37.0	37.0	37.0	37.1	37.1	37.2	37.2	37.2	37.2	37.3	37.3	0.1%
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	25.5	25.5	25.6	25.6	25.6	25.7	25.7	25.7	25.8	25.8	25.8	25.8	25.8	0.3%
Large Pickup	32.0	32.0	32.1	32.1	32.2	32.2	32.3	32.3	32.4	32.4	32.4	32.4	32.5	0.2%
Small Van	33.6	33.7	33.7	33.8	33.8	33.9	33.9	33.9	34.0	34.0	34.1	34.1	34.1	0.2%
Large Van	29.7	29.7	29.8	29.8	29.9	29.9	30.0	30.0	30.1	30.1	30.2	30.2	30.2	0.2%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
CNG Bi-Fuel														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Compact Cars	24.8	24.8	24.9	24.9	25.0	25.0	25.1	25.1	25.1	25.1	25.2	25.2	25.2	0.3%

**Table 58. New Light-Duty Vehicle Prices
(Thousand 2001 Dollars)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Midsize Cars	31.7	31.7	31.8	31.8	31.9	31.9	32.0	32.0	32.0	32.1	32.1	32.1	32.1	0.2%
Large Cars	36.0	36.0	36.0	36.1	36.1	36.2	36.2	36.2	36.3	36.3	36.3	36.4	36.4	0.2%
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	24.8	24.8	24.9	24.9	24.9	25.0	25.0	25.1	25.1	25.1	25.2	25.2	25.2	0.3%
Large Pickup	31.1	31.2	31.2	31.3	31.3	31.4	31.4	31.5	31.5	31.6	31.6	31.6	31.6	0.2%
Small Van	32.9	33.0	33.0	33.1	33.1	33.2	33.3	33.3	33.3	33.4	33.4	33.4	33.5	0.2%
Large Van	28.8	28.8	28.9	29.0	29.0	29.1	29.1	29.2	29.2	29.3	29.3	29.4	29.4	0.3%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas (LPG)														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	24.0	24.0	24.1	24.1	24.1	24.2	24.2	24.2	24.2	24.3	24.3	24.3	24.3	0.2%
Compact Cars	24.3	24.4	24.4	24.4	24.5	24.5	24.5	24.6	24.6	24.6	24.6	24.6	24.7	0.2%
Midsize Cars	31.8	31.9	31.9	32.0	32.0	32.0	32.1	32.1	32.1	32.2	32.2	32.2	32.2	0.2%
Large Cars	36.2	36.2	36.3	36.3	36.3	36.4	36.4	36.4	36.5	36.5	36.5	36.5	36.5	0.1%
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	25.5	25.6	25.6	25.7	25.7	25.7	25.7	25.7	25.8	25.8	25.8	25.8	25.8	0.2%
Large Pickup	31.2	31.3	31.3	31.4	31.4	31.5	31.5	31.5	31.6	31.6	31.6	31.6	31.6	0.2%
Small Van	33.7	33.7	33.8	33.8	33.8	33.9	33.9	34.0	34.0	34.0	34.1	34.1	34.1	0.2%
Large Van	29.0	29.0	29.1	29.1	29.2	29.2	29.3	29.3	29.3	29.3	29.4	29.4	29.4	0.2%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Utility	41.1	41.1	41.2	41.2	41.3	41.3	41.3	41.4	41.4	41.5	41.5	41.5	41.5	0.2%
LPG Bi-Fuel														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Compact Cars	24.2	24.3	24.3	24.4	24.4	24.4	24.5	24.5	24.5	24.6	24.6	24.6	24.6	0.3%
Midsize Cars	30.8	30.9	30.9	31.0	31.0	31.0	31.1	31.1	31.1	31.2	31.2	31.2	31.2	0.2%
Large Cars	35.1	35.2	35.2	35.3	35.3	35.4	35.4	35.4	35.5	35.5	35.5	35.5	35.5	0.2%
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	23.6	23.6	23.7	23.7	23.8	23.8	23.8	23.8	23.9	23.9	23.9	23.9	24.0	0.3%
Large Pickup	30.2	30.3	30.4	30.4	30.5	30.5	30.5	30.6	30.6	30.6	30.7	30.7	30.7	0.2%
Small Van	31.7	31.8	31.8	31.9	31.9	32.0	32.0	32.1	32.1	32.1	32.2	32.2	32.2	0.2%
Large Van	27.9	28.0	28.1	28.1	28.2	28.2	28.3	28.3	28.3	28.4	28.4	28.5	28.5	0.3%
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Utility	40.1	40.1	40.2	40.2	40.3	40.3	40.4	40.4	40.5	40.5	40.5	40.6	40.6	0.2%
Electric														
Mini-compact Cars	77.6	77.3	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	-0.1%
Subcompact Cars	40.6	40.3	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	-0.1%
Compact Cars	41.0	40.7	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	-0.1%
Midsize Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Two Seater Cars	62.8	60.8	59.9	60.0	58.2	58.3	58.8	57.6	57.8	58.3	58.5	58.9	59.3	-0.5%
Small Pickup	42.3	42.0	41.6	41.6	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	-0.1%
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Van	49.7	48.9	49.3	50.6	50.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	-0.1%
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Diesel-Electric Hybrid														

**Table 58. New Light-Duty Vehicle Prices
(Thousand 2001 Dollars)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Mini-compact Cars	60.4	60.4	60.3	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.5	60.5	60.5	-0.2%
Subcompact Cars	24.6	24.4	24.4	24.4	24.3	24.3	24.3	24.2	24.2	24.3	24.3	24.2	24.2	-0.5%
Compact Cars	23.8	23.6	23.5	23.5	23.4	23.4	23.4	23.3	23.4	23.4	23.4	23.4	23.3	-0.7%
Midsize Cars	29.3	29.1	29.1	29.1	29.0	29.0	29.0	28.8	28.9	28.9	28.9	28.9	28.9	-0.8%
Large Cars	35.6	35.4	35.4	35.4	35.2	35.2	35.2	35.1	35.2	35.2	35.2	35.2	35.2	-0.6%
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Van	33.2	32.9	32.8	32.8	32.6	32.6	32.6	32.5	32.6	32.6	32.6	32.5	32.5	-0.6%
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Utility	32.7	32.4	32.3	32.4	32.2	32.2	32.1	32.0	32.1	32.1	32.1	32.1	32.1	-0.8%
Large Utility	42.6	42.4	42.3	42.3	42.1	42.1	42.1	42.0	42.1	42.1	42.1	42.1	42.1	-0.5%
Gasoline-Electric Hybrid														
Mini-compact Cars	59.3	59.3	59.2	59.3	59.3	59.3	59.3	59.3	59.4	59.4	59.4	59.4	59.4	-0.1%
Subcompact Cars	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.1	21.1	21.1	21.1	21.1	21.1	-0.8%
Compact Cars	21.3	21.3	21.3	21.3	21.3	21.4	21.4	21.4	21.4	21.4	21.5	21.5	21.5	-0.6%
Midsize Cars	28.0	28.0	27.9	28.0	28.0	28.0	28.0	28.1	28.1	28.1	28.1	28.1	28.1	-0.4%
Large Cars	32.7	32.6	32.6	32.6	32.6	32.7	32.7	32.7	32.7	32.7	32.7	32.8	32.8	-0.6%
Two Seater Cars	47.5	47.4	47.3	47.3	47.3	47.3	47.3	47.2	47.3	47.3	47.3	47.3	47.3	-0.2%
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Van	29.3	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.4	29.4	29.4	29.4	29.4	-0.7%
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Utility	30.1	30.1	30.0	30.0	30.1	30.1	30.1	30.1	30.1	30.2	30.2	30.2	30.2	-0.6%
Large Utility	38.5	38.4	38.4	38.4	38.4	38.4	38.5	38.5	38.5	38.5	38.6	38.6	38.6	-0.7%
Fuel Cell Methanol														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Compact Cars	62.7	60.8	59.1	57.4	55.8	54.2	52.8	51.4	50.0	48.8	47.5	46.4	45.2	N/A
Midsize Cars	75.9	73.7	71.7	69.7	67.8	66.0	64.4	62.8	61.2	59.7	58.1	56.9	55.5	N/A
Large Cars	85.9	83.4	81.2	79.0	76.9	74.9	73.0	71.3	69.5	67.8	66.1	64.7	63.1	N/A
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Van	87.9	85.2	82.7	80.3	78.0	75.8	73.8	71.9	69.8	68.0	66.1	64.5	62.7	N/A
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Utility	85.8	83.2	80.9	78.6	76.4	74.4	72.4	70.6	68.7	66.9	65.1	63.6	62.0	N/A
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Compact Cars	56.9	55.6	54.3	53.2	52.1	51.0	50.0	49.0	48.1	47.2	46.4	45.5	44.7	N/A
Midsize Cars	68.0	66.5	65.1	63.7	62.4	61.2	60.0	58.9	57.8	56.7	55.7	54.8	53.8	N/A
Large Cars	76.3	74.7	73.0	71.5	70.1	68.7	67.4	66.2	65.0	63.8	62.7	61.6	60.5	N/A
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Van	76.5	74.7	72.9	71.3	69.7	68.2	66.8	65.4	64.0	62.7	61.5	60.3	59.1	N/A
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Utility	75.4	73.7	71.9	70.4	68.9	67.5	66.1	64.8	63.5	62.3	61.1	60.0	58.8	N/A

**Table 58. New Light-Duty Vehicle Prices
(Thousand 2001 Dollars)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001- 2025
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Gasoline														
Mini-compact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Subcompact Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Compact Cars	69.0	66.8	64.7	62.8	61.0	59.2	57.5	55.9	54.3	52.9	51.4	50.1	48.7	N/A
Midsize Cars	83.2	80.7	78.3	76.1	73.9	71.9	69.9	68.0	66.2	64.5	62.7	61.2	59.6	N/A
Large Cars	94.0	91.2	88.5	86.1	83.6	81.4	79.2	77.1	75.0	73.1	71.2	69.5	67.7	N/A
Two Seater Cars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Large Pickup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Van	96.9	93.8	90.9	88.2	85.5	83.1	80.7	78.4	76.1	73.9	71.8	69.9	67.9	N/A
Large Van	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Small Utility	94.4	91.4	88.6	86.1	83.6	81.3	79.0	76.8	74.6	72.6	70.5	68.8	66.9	N/A
Large Utility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A

**Table 58. New Light-Duty Vehicle Prices
(Thousand 2001 Dollars)**

Sources: 2001 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

Table 59. New Light-Duty Vehicle Range (Miles)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Gasoline													
Mini-compact Cars	404	403	407	409	411	409	413	413	410	414	419	421	424
Subcompact Cars	432	431	430	430	431	428	426	424	420	421	423	424	427
Compact Cars	435	434	433	434	435	434	433	431	427	429	431	432	435
Midsize Cars	454	453	452	453	454	453	452	449	446	448	451	452	454
Large Cars	458	457	456	456	456	452	449	446	442	443	446	448	450
Two Seater Cars	398	399	400	400	400	398	396	394	391	393	397	398	401
Small Pickup	409	408	408	409	409	411	410	410	407	410	413	416	419
Large Pickup	483	482	481	482	482	482	481	480	476	479	484	487	491
Small Van	521	519	517	518	518	518	513	510	506	508	512	514	517
Large Van	588	587	586	586	586	588	587	586	582	587	593	598	605
Small Utility	403	402	401	402	403	404	404	403	400	404	408	411	414
Large Utility	476	476	475	475	475	477	474	474	470	474	480	484	489
Turbo Direct Injection Diesel													
Mini-compact Cars	546	545	550	552	555	553	558	558	554	558	566	569	573
Subcompact Cars	583	582	580	581	582	578	575	572	567	569	572	573	576
Compact Cars	588	586	585	586	588	586	584	582	577	579	582	584	587
Midsize Cars	613	611	610	612	613	611	610	607	602	604	608	610	613
Large Cars	619	617	615	615	615	611	607	602	597	599	602	604	608
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	553	551	551	552	553	555	554	553	549	553	558	561	566
Large Pickup	652	651	650	650	650	651	649	648	643	647	653	657	664
Small Van	704	701	698	699	699	699	693	689	683	686	691	693	698
Large Van	794	793	791	791	791	794	792	792	786	792	801	808	817
Small Utility	544	542	542	543	544	546	545	545	541	545	551	554	560
Large Utility	643	642	641	642	642	643	640	639	635	639	648	653	661
Methanol													
Mini-compact Cars	255	254	257	258	259	258	260	260	258	261	264	266	267
Subcompact Cars	272	272	271	271	271	270	268	267	264	265	267	267	269
Compact Cars	274	274	273	273	274	273	273	271	269	270	272	272	274
Midsize Cars	286	285	285	285	286	285	284	283	281	282	284	285	286
Large Cars	289	288	287	287	287	285	283	281	278	279	281	282	284
Two Seater Cars	251	251	252	252	252	251	250	249	246	248	250	251	253
Small Pickup	258	257	257	257	258	259	258	258	256	258	260	262	264
Large Pickup	304	304	303	303	303	304	303	302	300	302	305	307	310
Small Van	328	327	326	326	326	326	323	322	319	320	322	324	326
Large Van	371	370	369	369	369	370	370	369	367	370	374	377	381
Small Utility	254	253	253	253	254	255	254	254	252	254	257	259	261
Large Utility	300	300	299	299	300	300	299	298	296	298	302	305	308
Methanol Flex													
Mini-compact Cars	230	230	232	233	234	233	236	236	234	236	239	240	242
Subcompact Cars	246	246	245	245	246	244	243	241	239	240	241	242	243
Compact Cars	248	247	247	247	248	247	247	246	243	244	246	246	248
Midsize Cars	259	258	258	258	259	258	257	256	254	255	257	258	259
Large Cars	261	261	260	260	260	258	256	254	252	253	254	255	257
Two Seater Cars	227	227	228	228	228	227	226	225	223	224	226	227	229

Table 59. New Light-Duty Vehicle Range (Miles)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Small Pickup	233	233	232	233	233	234	234	234	232	233	236	237	239
Large Pickup	275	275	274	274	275	275	274	273	271	273	276	278	280
Small Van	297	296	295	295	295	295	292	291	288	289	292	293	295
Large Van	335	335	334	334	334	335	334	334	332	334	338	341	345
Small Utility	230	229	229	229	230	230	230	230	228	230	233	234	236
Large Utility	271	271	271	271	271	272	270	270	268	270	274	276	279
Ethanol													
Mini-compact Cars	307	307	310	311	312	311	314	314	312	314	318	320	322
Subcompact Cars	328	328	327	327	327	326	324	322	319	320	322	323	324
Compact Cars	331	330	329	330	331	330	329	327	325	326	328	329	330
Midsize Cars	345	344	343	344	345	344	343	342	339	340	342	344	345
Large Cars	348	348	346	346	346	344	342	339	336	337	339		342
Two Seater Cars	303	303	304	304	304	303	301	300	297	299	301	340	305
Small Pickup	311	310	310	310	311	312	312	311	309	311	314	303	318
Large Pickup	367	367	366	366	366	367	366	365	362	364	368	370	374
Small Van	396	395	393	393	394	394	390	388	384	386	389	390	393
Large Van	447	446	445	445	446	447	446	446	442	446	451	455	460
Small Utility	306	305	305	306	306	307	307	307	304	307	310	312	315
Large Utility	362	362	361	361	361	362	361	360	358	360	365	368	372
Ethanol Flex													
Mini-compact Cars	295	294	297	299	300	299	302	302	299	302	306	308	310
Subcompact Cars	315	315	314	314	315	313	311	309	306	307	309	310	311
Compact Cars	318	317	316	317	318	317	316	314	312	313	315	316	317
Midsize Cars	331	331	330	331	332	330	330	328	325	327	329	330	332
Large Cars	335	334	333	333	333	330	328	326	323	324	326	327	329
Two Seater Cars	291	291	292	292	292	291	289	288	286	287	289	291	293
Small Pickup	299	298	298	298	299	300	300	299	297	299	302	303	306
Large Pickup	353	352	351	352	352	352	351	350	348	350	353	355	359
Small Van	381	379	378	378	378	378	375	373	369	371	374	375	377
Large Van	429	429	428	428	428	429	428	428	425	428	433	437	442
Small Utility	294	293	293	294	294	295	295	294	292	295	298	300	303
Large Utility	348	347	347	347	347	348	346	346	343	346	350	353	357
Compressed Natural Gas (CNG)													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	261	261	260	260	261	260	260	258	256	257	259	259	261
Midsize Cars	272	272	271	272	273	272	271	270	267	269	270	271	272
Large Cars	275	274	273	273	273	271	270	268	265	266	268	269	270
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	246	245	245	245	246	247	246	246	244	246	248	249	251
Large Pickup	290	289	289	289	289	289	289	288	286	287	290	292	295
Small Van	313	312	310	311	311	311	308	306	303	305	307	308	310
Large Van	353	352	352	352	352	353	352	352	349	352	356	359	363
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
CNG Bi-Fuel													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	218	217	217	217	218	217	216	215	214	214	215	216	217

Table 59. New Light-Duty Vehicle Range (Miles)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Midsize Cars	227	226	226	227	227	226	226	225	223	224	225	226	227
Large Cars	229	229	228	228	228	226	225	223	221	222	223	224	225
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	205	204	204	204	205	206	205	205	203	205	207	208	210
Large Pickup	242	241	241	241	241	241	241	240	238	240	242	243	246
Small Van	261	260	259	259	259	259	257	255	253	254	256	257	258
Large Van	294	294	293	293	293	294	293	293	291	293	297	299	303
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Liquefied Petroleum Gas (LPG)													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	367	366	365	366	366	364	362	360	357	358	360	361	363
Compact Cars	370	369	368	369	370	369	368	366	363	364	366	368	370
Midsize Cars	386	385	384	385	386	385	384	382	379	380	383	384	386
Large Cars	390	389	387	387	387	384	382	379	376	377	379	381	383
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	348	347	347	347	348	349	349	348	346	348	351	353	356
Large Pickup	411	410	409	409	409	410	409	408	405	407	411	414	418
Small Van	443	441	440	440	440	440	436	434	430	432	435	437	439
Large Van	500	499	498	498	498	500	499	498	495	499	504	508	515
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	405	404	404	404	404	405	403	403	400	403	408	411	416
LPG Bi-Fuel													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	348	347	346	347	348	347	346	345	342	343	345	346	348
Midsize Cars	363	362	362	363	364	362	361	360	357	358	360	362	363
Large Cars	367	366	365	365	364	362	360	357	354	355	357	358	360
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	328	327	326	327	328	329	328	328	325	328	331	332	335
Large Pickup	386	386	385	385	385	386	385	384	381	383	387	390	393
Small Van	417	415	414	414	414	414	410	408	405	406	409	411	414
Large Van	471	470	469	469	469	470	469	469	466	469	475	479	484
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	381	381	380	380	380	381	380	379	376	379	384	387	392
Electric													
Mini-compact Cars	80	80	80	80	80	80	80	80	80	80	80	80	80
Subcompact Cars	80	80	80	80	80	80	80	80	80	80	80	80	80
Compact Cars	80	80	80	80	80	80	80	80	80	80	80	80	80
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Two Seater Cars	80	80	80	80	80	80	80	80	80	80	80	80	80
Small Pickup	80	80	80	80	80	80	80	80	80	80	80	80	80
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	80	80	80	80	80	80	80	80	80	80	80	80	80
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0

Diesel-Electric Hybrid

Table 59. New Light-Duty Vehicle Range (Miles)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Mini-compact Cars	526	524	530	532	534	532	537	537	533	538	545	548	552
Subcompact Cars	561	560	559	559	560	557	554	551	546	548	550	552	555
Compact Cars	566	564	563	564	566	564	562	560	555	557	560	562	565
Midsize Cars	590	589	588	589	591	588	587	584	579	582	586	588	590
Large Cars	596	594	592	592	592	588	584	580	574	576	580	582	586
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	678	675	672	673	673	673	667	664	657	660	665	668	672
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	524	522	522	523	524	525	525	524	521	525	531	534	539
Large Utility	619	618	618	618	618	620	617	616	612	616	624	629	636
Gasoline-Electric Hybrid													
Mini-compact Cars	505	504	509	512	513	512	517	517	513	517	524	527	530
Subcompact Cars	540	539	537	538	539	536	533	529	525	526	529	531	533
Compact Cars	544	543	541	543	544	542	541	538	534	536	539	541	543
Midsize Cars	567	566	565	566	568	566	564	562	557	559	563	565	568
Large Cars	573	572	570	570	569	565	562	558	552	554	557	560	563
Two Seater Cars	498	498	499	500	500	498	496	493	489	491	496	498	501
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	652	649	646	647	647	647	641	638	632	635	640	642	646
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	503	502	502	503	504	505	504	504	501	504	511	513	518
Large Utility	595	595	594	594	594	596	593	592	588	592	600	605	612
Fuel Cell Methanol													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	435	434	433	434	435	434	433	431	427	429	431	432	435
Midsize Cars	454	453	452	453	454	453	452	449	446	448	451	452	454
Large Cars	458	457	456	456	456	452	449	446	442	443	446	448	450
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	521	519	517	518	518	518	513	510	506	508	512	514	517
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	403	402	401	402	403	404	404	403	400	404	408	411	414
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Fuel Cell Hydrogen													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	435	434	433	434	435	434	433	431	427	429	431	432	435
Midsize Cars	454	453	452	453	454	453	452	449	446	448	451	452	454
Large Cars	458	457	456	456	456	452	449	446	442	443	446	448	450
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	521	519	517	518	518	518	513	510	506	508	512	514	517
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	403	402	401	402	403	404	404	403	400	404	408	411	414

Table 59. New Light-Duty Vehicle Range (Miles)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Fuel Cell Gasoline													
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Compact Cars	435	434	433	434	435	434	433	431	427	429	431	432	435
Midsize Cars	454	453	452	453	454	453	452	449	446	448	451	452	454
Large Cars	458	457	456	456	456	452	449	446	442	443	446	448	450
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Van	521	519	517	518	518	518	513	510	506	508	512	514	517
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Utility	403	402	401	402	403	404	404	403	400	404	408	411	414
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 59. New Light-Duty Vehicle Range (Miles)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Gasoline														
Mini-compact Cars	427	428	430	431	432	432	433	434	435	436	438	438	439	0.4%
Subcompact Cars	429	431	433	434	435	436	437	438	440	441	442	443	444	0.1%
Compact Cars	438	440	441	442	443	444	444	445	447	448	448	449	449	0.1%
Midsize Cars	456	458	459	461	462	463	464	464	466	467	468	468	469	0.1%
Large Cars	454	456	458	460	462	463	464	465	467	469	470	471	472	0.1%
Two Seater Cars	404	406	408	410	411	412	413	414	415	416	418	419	419	0.2%
Small Pickup	423	426	430	433	437	439	441	444	447	449	451	453	454	0.4%
Large Pickup	497	500	504	507	510	513	515	518	521	524	526	528	530	0.4%
Small Van	520	523	525	528	530	532	534	536	540	542	545	547	548	0.2%
Large Van	614	619	623	628	633	636	639	643	648	651	655	658	661	0.5%
Small Utility	419	422	424	427	430	433	435	437	440	442	445	446	448	0.5%
Large Utility	495	498	502	505	509	511	513	516	520	522	525	527	529	0.4%
Turbo Direct Injection Diesel														
Mini-compact Cars	576	578	580	581	583	584	585	586	588	589	591	592	593	0.4%
Subcompact Cars	579	582	584	586	588	589	590	592	594	596	597	598	599	0.1%
Compact Cars	591	594	596	597	598	599	600	601	603	604	605	606	607	0.1%
Midsize Cars	616	618	620	622	624	625	626	627	629	630	631	632	633	0.1%
Large Cars	612	616	619	621	623	625	627	628	631	633	635	636	637	0.1%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	571	576	581	585	589	592	596	599	604	607	609	611	613	0.4%
Large Pickup	670	675	680	685	689	693	696	699	704	708	710	713	715	0.4%
Small Van	702	706	709	712	715	718	721	724	729	732	736	738	740	0.2%
Large Van	829	836	842	848	854	859	863	868	875	879	884	889	893	0.5%
Small Utility	565	570	573	577	581	584	587	590	594	597	600	603	605	0.5%
Large Utility	668	673	677	682	687	690	693	697	702	705	709	711	714	0.4%
Methanol														
Mini-compact Cars	269	270	271	271	272	272	273	273	274	275	276	276	277	0.4%
Subcompact Cars	270	272	273	273	274	275	275	276	277	278	279	279	279	0.1%
Compact Cars	276	277	278	279	279	280	280	280	281	282	283	283	283	0.1%
Midsize Cars	288	289	289	290	291	292	292	293	293	294	295	295	295	0.1%
Large Cars	286	287	289	290	291	292	292	293	294	295	296	297	297	0.1%
Two Seater Cars	255	256	257	258	259	260	260	261	262	262	263	264	264	0.2%
Small Pickup	267	269	271	273	275	276	278	280	282	283	284	285	286	0.4%
Large Pickup	313	315	317	320	322	323	325	326	329	330	332	333	334	0.4%
Small Van	328	329	331	332	334	335	336	338	340	342	343	344	345	0.2%
Large Van	387	390	393	396	398	401	403	405	408	410	413	415	417	0.5%
Small Utility	264	266	267	269	271	273	274	275	277	279	280	281	282	0.5%
Large Utility	312	314	316	318	320	322	323	325	328	329	331	332	333	0.4%
Methanol Flex														
Mini-compact Cars	243	244	245	245	246	247	247	247	248	249	249	250	250	0.4%
Subcompact Cars	245	246	247	247	248	249	249	250	251	251	252	253	253	0.1%
Compact Cars	250	251	252	252	253	253	253	254	255	255	256	256	256	0.1%
Midsize Cars	260	261	262	263	263	264	264	265	265	266	267	267	267	0.1%
Large Cars	259	260	261	262	263	264	265	265	266	267	268	269	269	0.1%
Two Seater Cars	230	232	232	233	234	235	235	236	237	237	238	239	239	0.2%

Table 59. New Light-Duty Vehicle Range (Miles)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Small Pickup	241	243	245	247	249	250	251	253	255	256	257	258	259	0.4%
Large Pickup	283	285	287	289	291	293	294	295	297	299	300	301	302	0.4%
Small Van	296	298	299	301	302	303	304	306	308	309	311	312	312	0.2%
Large Van	350	353	355	358	361	363	364	366	369	371	373	375	377	0.5%
Small Utility	239	240	242	244	245	247	248	249	251	252	253	254	255	0.5%
Large Utility	282	284	286	288	290	291	292	294	296	298	299	300	301	0.4%
Ethanol														
Mini-compact Cars	324	326	326	327	328	329	329	330	331	332	333	333	334	0.4%
Subcompact Cars	326	328	329	330	331	332	332	333	334	335	336	337	337	0.1%
Compact Cars	333	334	335	336	337	337	338	338	339	340	341	341	342	0.1%
Midsize Cars	347	348	349	350	351	352	352	353	354	355	355	356	356	0.1%
Large Cars	345	347	348	350	351	352	353	354	355	356	357	358	358	0.1%
Two Seater Cars	307	309	310	311	312	313	314	315	316	317	317	318	319	0.2%
Small Pickup	321	324	327	329	332	334	335	337	340	341	343	344	345	0.4%
Large Pickup	377	380	383	386	388	390	392	394	396	398	400	401	402	0.4%
Small Van	395	397	399	401	403	404	406	408	410	412	414	415	417	0.2%
Large Van	467	470	474	477	481	484	486	488	492	495	498	500	503	0.5%
Small Utility	318	321	323	325	327	329	330	332	335	336	338	339	340	0.5%
Large Utility	376	379	381	384	387	388	390	392	395	397	399	401	402	0.4%
Ethanol Flex														
Mini-compact Cars	312	313	314	314	315	316	316	317	318	319	319	320	321	0.4%
Subcompact Cars	313	315	316	317	318	319	319	320	321	322	323	323	324	0.1%
Compact Cars	320	321	322	323	324	324	324	325	326	327	327	328	328	0.1%
Midsize Cars	333	334	335	336	337	338	338	339	340	341	341	342	342	0.1%
Large Cars	331	333	335	336	337	338	339	340	341	342	343	344	344	0.1%
Two Seater Cars	295	297	298	299	300	301	301	302	303	304	305	306	306	0.2%
Small Pickup	309	311	314	316	319	320	322	324	326	328	329	330	331	0.4%
Large Pickup	363	365	368	370	373	375	376	378	381	383	384	385	387	0.4%
Small Van	380	382	383	385	387	388	390	392	394	396	398	399	400	0.2%
Large Van	448	452	455	459	462	465	467	469	473	475	478	481	483	0.5%
Small Utility	306	308	310	312	314	316	317	319	321	323	325	326	327	0.5%
Large Utility	361	364	366	369	371	373	375	377	380	381	383	385	386	0.4%
Compressed Natural Gas (CNG)														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	263	264	265	265	266	266	267	267	268	269	269	269	270	0.1%
Midsize Cars	274	275	276	276	277	278	278	279	279	280	281	281	281	0.1%
Large Cars	272	274	275	276	277	278	279	279	280	281	282	283	283	0.1%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	254	256	258	260	262	263	265	266	268	270	271	272	272	0.4%
Large Pickup	298	300	302	304	306	308	309	311	313	315	316	317	318	0.4%
Small Van	312	314	315	317	318	319	320	322	324	325	327	328	329	0.2%
Large Van	368	371	374	377	380	382	383	386	389	391	393	395	397	0.5%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
CNG Bi-Fuel														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	219	220	221	221	222	222	222	223	223	224	224	225	225	0.1%

Table 59. New Light-Duty Vehicle Range (Miles)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Midsize Cars	228	229	230	230	231	231	232	232	233	233	234	234	234	0.1%
Large Cars	227	228	229	230	231	232	232	233	234	234	235	236	236	0.1%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	212	213	215	217	218	219	221	222	224	225	226	226	227	0.4%
Large Pickup	248	250	252	254	255	257	258	259	261	262	263	264	265	0.4%
Small Van	260	261	263	264	265	266	267	268	270	271	272	273	274	0.2%
Large Van	307	310	312	314	316	318	320	321	324	326	328	329	331	0.5%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Liquefied Petroleum Gas (LPG)														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	365	366	368	369	370	371	372	373	374	375	376	377	377	0.1%
Compact Cars	372	374	375	376	377	377	378	378	380	380	381	382	382	0.1%
Midsize Cars	388	389	390	392	393	393	394	395	396	397	398	398	399	0.1%
Large Cars	386	388	389	391	393	394	395	396	397	398	400	400	401	0.1%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	360	362	366	368	371	373	375	377	380	382	384	385	386	0.4%
Large Pickup	422	425	428	431	434	436	438	440	443	446	447	449	450	0.4%
Small Van	442	444	446	449	450	452	454	456	459	461	463	465	466	0.2%
Large Van	522	526	530	534	538	541	543	546	551	554	557	559	562	0.5%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	421	424	426	430	432	434	436	439	442	444	446	448	450	0.4%
LPG Bi-Fuel														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	350	352	353	354	355	355	356	356	357	358	359	359	360	0.1%
Midsize Cars	365	366	368	369	370	370	371	371	373	373	374	375	375	0.1%
Large Cars	363	365	367	368	369	371	371	372	374	375	376	377	377	0.1%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	338	341	344	347	349	351	353	355	358	359	361	362	363	0.4%
Large Pickup	397	400	403	406	408	411	412	414	417	419	421	422	424	0.4%
Small Van	416	418	420	422	424	425	427	429	432	434	436	437	439	0.2%
Large Van	491	495	499	503	506	509	511	514	518	521	524	527	529	0.5%
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	396	399	401	404	407	409	410	413	416	418	420	422	423	0.4%
Electric														
Mini-compact Cars	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Subcompact Cars	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Compact Cars	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Midsize Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Two Seater Cars	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Small Pickup	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A

Diesel-Electric Hybrid

Table 59. New Light-Duty Vehicle Range (Miles)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Mini-compact Cars	555	557	558	560	561	562	563	564	566	567	569	570	571	0.4%
Subcompact Cars	558	560	563	564	566	567	568	570	572	574	575	576	577	0.1%
Compact Cars	569	572	574	575	576	577	578	579	581	582	583	584	584	0.1%
Midsize Cars	593	595	597	599	601	602	603	604	605	607	608	609	610	0.1%
Large Cars	590	593	596	598	600	602	603	605	608	609	611	612	613	0.1%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	676	679	683	686	689	691	694	697	702	705	708	711	713	0.2%
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	544	548	552	556	559	562	565	568	572	575	578	580	582	0.5%
Large Utility	643	648	652	657	661	664	667	671	676	679	682	685	688	0.4%
Gasoline-Electric Hybrid														
Mini-compact Cars	534	536	537	538	540	541	542	543	544	546	547	548	549	0.4%
Subcompact Cars	536	539	541	543	544	545	547	548	550	551	553	554	554	0.1%
Compact Cars	547	550	552	553	554	555	556	557	558	559	561	561	562	0.1%
Midsize Cars	571	572	574	576	578	579	579	580	582	583	585	586	586	0.1%
Large Cars	567	570	573	575	577	579	580	582	584	586	588	589	590	0.1%
Two Seater Cars	505	508	510	512	514	515	516	517	519	521	522	523	524	0.2%
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	650	653	656	660	662	665	667	670	675	678	681	683	685	0.2%
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	523	527	531	534	538	541	543	547	550	553	556	558	560	0.5%
Large Utility	619	623	627	632	636	639	641	645	650	653	656	659	661	0.4%
Fuel Cell Methanol														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	438	440	441	442	443	444	444	445	447	448	448	449	449	0.1%
Midsize Cars	456	458	459	461	462	463	464	464	466	467	468	468	469	0.1%
Large Cars	454	456	458	460	462	463	464	465	467	469	470	471	472	0.1%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	520	523	525	528	530	532	534	536	540	542	545	547	548	0.2%
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	419	422	424	427	430	433	435	437	440	442	445	446	448	0.5%
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Fuel Cell Hydrogen														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	438	440	441	442	443	444	444	445	447	448	448	449	449	0.1%
Midsize Cars	456	458	459	461	462	463	464	464	466	467	468	468	469	0.1%
Large Cars	454	456	458	460	462	463	464	465	467	469	470	471	472	0.1%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	520	523	525	528	530	532	534	536	540	542	545	547	548	0.2%
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	419	422	424	427	430	433	435	437	440	442	445	446	448	0.5%

Table 59. New Light-Duty Vehicle Range (Miles)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2001-2025
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Fuel Cell Gasoline														
Mini-compact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Subcompact Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Compact Cars	438	440	441	442	443	444	444	445	447	448	448	449	449	0.1%
Midsize Cars	456	458	459	461	462	463	464	464	466	467	468	468	469	0.1%
Large Cars	454	456	458	460	462	463	464	465	467	469	470	471	472	0.1%
Two Seater Cars	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Large Pickup	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Van	520	523	525	528	530	532	534	536	540	542	545	547	548	0.2%
Large Van	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
Small Utility	419	422	424	427	430	433	435	437	440	442	445	446	448	0.5%
Large Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A

**Table 59. New Light-Duty Vehicle Range
(Miles)**

Sources: 2001 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.