

EARLY GENERATION SCREENING EVALUATION
FOR SOFT WHEAT MILLING AND BAKING QUALITY
2007 CROP

HERB OHM
PURDUE UNIVERSITY
NUWWSN

STANDARD = #710304, PION. 2545

SAMPLE NO.	ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	SOFT. EQUIV. SCORE	TEST WT. LB/BU	ADJ. YIELD %	SOFT. EQUIV. %	FLOUR PROT. %	LACTIC ACID SRC	SUCROSE %	UNADJUSTED LACTIC ACID SRC	
*	STD = #710304, PION. 2545	60.7	C 56.7	D 68.6	C	60.1	68.1	58.5	8.76	96.9	83.3	96.9
710301	202 ERNIE	57.4	D 59.2	D 70.2	B	57.0	Q 67.4	59.1	8.58	101.8	83.0	98.9
710302	203 TRUMAN	62.7	C 54.5	D 56.4	D	61.8	68.5	54.3	* 8.49	94.7	81.8	91.1
710303	204 FREEDOM	64.4	C 59.5	D 59.9	D	59.9	68.8	55.5	8.70	84.8	80.1	82.7
710304	205 PIONEER 2545	60.7	C 56.7	D 68.6	C	60.1	68.1	58.5	8.76	96.9	83.3	95.2
710305	206 NY88046-8138	72.6	B 63.8	C 64.3	C	60.9	70.5	57.0	8.46	81.1	79.8	77.3
710306	207 NY93285SP-7343	64.3	C 65.3	C 57.8	D	60.4	68.8	54.8	* 8.39	89.6	77.7	85.3
710307	208 NY93285-7110	64.0	C 60.9	C 56.0	D	60.4	68.8	54.1	* 9.06	89.6	77.8	90.0
710308	209 NY91028SP-9082	52.0	D 50.7	D 61.8	C	61.0	66.4	Q 56.1	9.35	79.9	83.0	82.3
710309	210 NY93306-7901	70.9	B 55.4	D 59.9	D	60.3	70.1	55.5	8.59	100.8	82.1	97.9
710310	211 KS04HW47-3	72.2	B 13.0	F 0.8	F	62.1	70.4	34.8	Q 10.25	* 91.3	82.3	100.1
710311	212 KS04HW101-3	69.0	C 46.3	E 35.0	F	61.9	69.8	46.8	Q 7.82	92.1	81.5	83.8
710312	213 0111035A1-71	72.7	B 63.2	C 72.1	B	58.9	* 70.5	59.7	8.44	92.9	82.0	89.0
710313	214 011036A1-14	61.3	C 40.3	E 72.3	B	59.6	68.2	59.8	8.76	103.0	91.2	101.4
710314	215 02444A1-23-6	62.1	C 48.2	E 73.7	B	57.9	* 68.4	60.3	7.63	99.4	90.5	89.8
710315	216 03647A1-1	63.1	C 55.4	D 61.7	C	59.6	68.6	56.1	8.96	76.6	81.7	76.3
710316	217 04287A1-10	75.6	B 68.3	C 61.4	C	59.0	71.1	56.0	7.28	80.6	79.6	68.6
710317	218 NEO1643	74.7	B 46.7	E 41.1	E	60.7	70.9	48.9	Q 7.85	94.4	82.7	86.4
710318	219 HARRY	68.6	C 23.2	F 32.7	F	60.3	69.7	45.9	Q 9.76	* 101.6	86.8	106.9
710319	220 NIO4421	76.9	B 45.9	E 47.5	E	61.3	71.3	51.1	Q 9.04	101.6	82.2	101.8
710320	221 NEO46953	76.7	B 44.7	E 32.2	F	61.0	71.3	45.8	Q 8.54	96.5	80.0	93.2
710321	222 NEO3490	82.3	A 55.6	D 52.5	D	60.9	72.4	52.9	* 8.36	104.8	80.6	100.3
710322	223 MD01W233-06-11	57.9	D 45.6	E 72.0	B	60.6	67.5	59.7	9.38	94.2	87.6	96.8
710323	224 M03-3002	68.1	C 56.3	D 66.1	C	60.0	69.6	57.6	8.47	89.9	83.4	86.1
710324	225 M03-3104	58.7	D 62.7	C 73.1	B	57.5	Q 67.7	60.1	7.59	91.8	84.2	82.0
710325	226 M03-3616	58.4	D 58.0	D 72.3	B	59.5	67.7	59.8	8.99	86.4	83.2	86.3
710326	227 M03*3877	72.8	B 55.8	D 73.2	B	60.3	70.5	60.1	8.15	109.1	86.1	103.2
710327	228 M03*3861	73.9	B 57.6	D 73.5	B	60.0	70.7	60.2	7.83	109.5	86.0	101.3
710328	229 RCUOG19/21	67.4	C 57.8	D 61.1	C	60.0	69.4	55.9	9.02	99.1	80.4	99.3
710329	230 RCUOGF11020D/4	69.6	C 12.3	F 11.6	F		69.9	38.6	Q 12.21	Q 52.1	81.2	74.5

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*	STD = #710304, PION. 2545	60.7	C 56.7	D 68.6	C 60.1	68.1	58.5	8.76	96.9	83.3	96.9
710330	231 RCUOGF111202A/3	68.9	C -4.9	F 15.6	F 61.4	69.7	40.0	Q 11.31	Q 90.0	91.4	106.2
710331	232 RCUOGDHACF110902D	70.8	B 14.8	F 16.5	F 61.2	70.1	40.3	Q 12.10	Q 53.9	81.5	75.6
710332	233 RCUOGNS984-1	70.9	B 27.2	F 37.3	F 62.3	70.1	47.6	Q 9.96	* 102.8	85.7	109.6
710333	234 IL00-8530	76.8	B 63.7	C 68.8	C 61.3	71.3	58.6	8.37	105.1	81.1	100.7
710334	235 IL01-11445	66.7	C 53.2	D 71.8	B 61.7	69.3	59.6	8.75	104.5	85.6	102.7
710335	236 IL01-11934	69.8	C 58.4	D 65.8	C 61.4	69.9	57.5	8.37	99.7	82.7	95.2
710336	237 IL02-19463	58.8	D 42.3	E 83.6	A 59.9	67.7	63.8	9.00	113.4	92.6	113.4
710337	238 IL02-23168	66.0	C 52.9	D 68.8	C 61.5	69.2	58.6	10.54	Q 97.7	81.3	108.5
710338	239 KY97C-0540-01-03	62.5	C 42.2	E 68.1	C 62.1	68.5	58.3	8.76	115.2	89.4	113.6
710339	240 KY97C-0554-03-06	77.8	B 37.1	F 45.1	E 60.0	71.5	50.3	Q 9.32	96.5	84.8	98.8
710340	241 KY97C-0554-04-05	88.4	A 44.2	E 51.1	D 59.9	73.6	52.4	* 8.78	94.1	84.3	92.6
710341	242 KY97C-0508-01-01A-1	58.2	D 45.9	E 70.7	B 59.5	67.6	59.3	8.75	105.7	88.5	104.0
710342	243 KY97C-0554-03-05	81.2	A 42.6	E 48.1	E 60.5	72.2	51.3	Q 9.03	95.3	83.7	95.4
710343	244 MO040165	61.4	C 49.6	E 63.7	C 60.4	68.2	56.8	8.95	98.3	84.7	98.0
710344	245 MO050101	59.9	C 47.1	E 64.9	C 59.9	68.0	57.2	9.17	90.0	85.7	91.2
710345	246 MO050143	59.2	D 54.1	D 63.6	C 59.8	67.8	56.8	8.80	94.6	83.1	93.2
710346	247 MO050197	67.9	C 45.2	E 52.0	D 62.0	69.5	52.7	* 9.77	* 100.7	82.1	106.1
710347	248 MSU LINE E0323	71.3	B 66.7	C 58.9	D 60.0	70.2	55.1	* 8.09	94.4	78.0	88.0
710348	249 MSU LINE E5015	63.3	C 57.8	D 75.3	B 58.8	* 68.6	60.9	7.94	101.6	86.2	94.2
710349	250 MSU LINE E6001	46.2	E 26.0	F 55.1	D 60.5	65.2	Q 53.8	* 9.85	* 93.3	90.9	99.3
710350	251 MSU LINE E6002	59.1	D 36.0	F 39.7	F 61.3	67.8	48.4	Q 9.24	86.1	84.1	87.8
710351	252 MSU LINE E6003	62.7	C 37.1	F 38.8	F 63.6	68.5	48.1	Q 10.83	Q 103.0	80.1	115.9
710352	253 VA06W-600	61.2	C 46.0	E 86.1	A 58.7	* 68.2	64.7	7.99	113.6	93.8	106.5
710353	254 VA02-602	70.8	B 59.2	D 73.4	B 59.8	70.1	60.2	8.14	104.7	84.7	98.7
710354	255 VA06W-587	63.9	C 59.3	D 70.2	B 61.7	68.7	59.1	8.04	101.4	84.1	94.6
710355	256 VA06W-594	69.4	C 50.7	D 71.4	B 60.6	69.8	59.5	8.73	105.6	86.6	103.7
710356	257 VA06W-585	64.6	C 49.4	E 71.2	B 62.6	68.9	59.4	7.72	92.4	89.2	83.4
710357	258 OH02-15978	57.8	D 60.3	C 80.2	A 61.0	67.5	62.6	8.09	108.5	86.0	102.2
710358	259 OH02-12678	67.2	C 57.1	D 66.2	C 61.1	69.4	57.7	8.40	89.4	83.3	85.2

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*	STD =	#710304, PION. 2545	60.7	C	56.7	D	68.6	C	60.1		68.1		58.5		8.76		96.9		83.3		96.9
710359	260	OH02-12686	61.3	C	44.6	E	46.3	E	61.7		68.2		50.7	Q	8.30		86.1		84.0		81.2
710360	261	OH02-13567	72.8	B	67.6	C	67.3	C	59.2		70.5		58.1		7.56		94.4		80.8		84.4

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GRAIN CONDITION SCALE

FHB, SPROUTING and BLACK POINT

0 None
 1 up to 10%
 2 10% to 40%
 3 above 40%

SHRIVELING

0 None
 1 Some
 2 Moderate
 3 Heavy

SAMPLE NO.	ENTRY	FHB (0-3)	WEATHERING (Yes/No)	SPROUTING (0-3)	BLACK POINT (0-3)	SHRIVELING AFTER CLEANING (0-3)	COMMENTS
710301	202 ERNIE	1			1	1	
710302	203 TRUMAN	1			1	1	
710303	204 FREEDOM	1			2	1	Rough seed coat
710304	205 PIONEER 2545	1		?	1	1	Rough seed coat
710305	206 NY88046-8138	1		2-?	2	1	White w/few red
710306	207 NY93285SP-7343	1-?		2	1	1	White w/few red
710307	208 NY93285-7110	1-?		2-?	2	1	White w/few red
710308	209 NY91028SP-9082	1		2	1	1	Red & white
710309	210 NY93306-7901	1		2	1	1	White w/some red
710310	211 KS04HW47-3	1		1	2	2	White
710311	212 KS04HW101-3	1		1-?	2	1	White w/some red
710312	213 0111035A1-71	1-?			2	1	Rough seed coat
710313	214 011036A1-14	1-?			2	2	
710314	215 02444A1-23-6	1			1	2	
710315	216 03647A1-1	1		?	2	1	
710316	217 04287A1-10	1			2	1	
710317	218 NEO1643	1			1	1	
710318	219 HARRY	2	Y	3	2	1	
710319	220 NIO4421	3			1	1	
710320	221 NEO46953	1		2	2	2	
710321	222 NEO3490	2		1	1	1	
710322	223 MD01W233-06-11			1	1	1	
710323	224 M03-3002	1-?		1	2	1	
710324	225 M03-3104	1		1	1	1	Rough seed coat
710325	226 M03-3616	2		1	2	1	
710326	227 M03*3877	1		1	2	1	
710327	228 M03*3861	1		1	2	2	
710328	229 RCUOG19/21	1		2-?	2	1	White w/some red
710329	230 RCUOGF11020D/4	1-?		1	1		Red w/few white
710330	231 RCUOGF111202A/3	1-?		?	1	2	

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GRAIN CONDITION SCALE

FHB, SPROUTING and BLACK POINT

0 None
 1 up to 10%
 2 10% to 40%
 3 above 40%

SHRIVELING

0 None
 1 Some
 2 Moderate
 3 Heavy

SAMPLE NO.	ENTRY	FHB (0-3)	WEATHERING (Yes/No)	SPROUTING (0-3)	BLACK POINT (0-3)	SHRIVELING AFTER CLEANING (0-3)	COMMENTS
710331	232 RCUOGDHACF110902D	2-?		1	1	1	Red w/few white
710332	233 RCUOGNS984-1	1			1	1	
710333	234 IL00-8530	1			1	1	
710334	235 IL01-11445	1-?			2	1	
710335	236 IL01-11934	1		1	1	1	
710336	237 IL02-19463	1-?		1-?	1	1	
710337	238 IL02-23168	1-?		?	1	1	
710338	239 KY97C-0540-01-03	1-?		1	2	1	
710339	240 KY97C-0554-03-06	2-?			1	1	Rough seed coat
710340	241 KY97C-0554-04-05	1		?	1	1	
710341	242 KY97C-0508-01-01A-1	2			2	1	Rough seed coat
710342	243 KY97C-0554-03-05	2				1	
710343	244 MO040165	1		?	1	1	Red w/few white
710344	245 MO050101	1-?			1	1	
710345	246 MO050143	1-?		?	2	1	
710346	247 MO050197	1			1	1	
710347	248 MSU LINE E0323	1-?		2	1	1	White
710348	249 MSU LINE E5015	1		1-?	1	1	White
710349	250 MSU LINE E6001	2		?	1	1	
710350	251 MSU LINE E6002	1		3	3	1	White
710351	252 MSU LINE E6003	1-?		1-?	2	1	White
710352	253 VA06W-600	1-?			1	1	
710353	254 VA02-602	1-?			1	1	
710354	255 VA06W-587	1			1	1	
710355	256 VA06W-594	1			1	1	
710356	257 VA06W-585	1		?	2	1	
710357	258 OH02-15978	1-?			1	1	Red w/few white
710358	259 OH02-12678	1-?		?	1	1	
710359	260 OH02-12686	1-?		1-?	2	1	Rough seed coat
710360	261 OH02-13567	1			1	1	Rough seed coat

EARLY GENERATION SCREENING
EVALUATION SUMMARY
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	STD.		AVG.	
	DATA		DATA	
MILLING QUALITY SCORE	60.7	C	66.8	
BAKING QUALITY SCORE	56.7	D	48.6	
SE SCORE	68.6	C	58.3	

	STD.		AVG.		ADJ.		NOTATION		
	DATA		DATA		L.S.D.		BEGINS		
							*		Q
TEST WEIGHT	60.10		60.48		1.16		58.93		57.77
FLOUR YIELD	68.10		69.32		0.73		67.37		66.64
SOFTNESS EQUIV.	58.52		54.91		3.15		55.38		52.23
FLOUR PROTEIN	8.76		8.86		0.86		9.62		10.49
SUCROSE SRC	83.28		84.02		3.66				
LACTIC ACID SRC	96.87		95.30		4.26				

	A	B	C	D	E	F
MILLING SCORE	3	17	29	10	1	0
BAKING SCORE	0	0	10	22	18	10
SOFTNESS EQUIV. SCORE	3	16	16	10	5	10

TOTAL

60

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710301	202 ERNIE	57.4	D	59.2	D	70.2	B	57.0	67.4	59.1	8.58	101.8	83.0
(Database)	ERNIE	54.6	D	75.8	B	75.7	B	60.1	68.2	54.2	8.50	87.2	86.8
710303	204 FREEDOM	64.4	C	59.5	D	59.9	D	59.9	68.8	55.5	8.70	84.8	80.1
(Database)	FREEDOM	61.4	C	54.5	D	64.8	C	60.2	69.4	53.0	8.50	80.0	87.8
710304	205 PIONEER 2545	60.7	C	56.7	D	68.6	C	60.1	68.1	58.5	8.76	96.9	83.3
(Database)	PIONEER 2545	60.7	C	56.7	D	68.6	C	60.1	66.7	55.2	8.90	85.7	83.7
710302	203 TRUMAN	62.7	C	54.5	D	56.4	D	61.8	68.5	54.3	8.49	94.7	81.8
(Database)	TRUMAN	62.6	C	38.0	F	64.1	C	61.3	69.5	55.7	8.40	86.7	82.6