EARLY GENERATION SCREENING EVALUATION
FOR SOFT WHEAT MILLING AND BAKING QUALITY
2009 CROP

Herb Ohm - Purdue University
West Lafyette, IN
NUWWSN

STANDARD = Freedom

SAMPLE NO.	ENTRY 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 SRC %
*	STD =	Freedom	61.43	C	54.53	D	64.83	C		59.23		67.48		56.34		8.52		80.35		89.32
910553	211	ERNIE	66.1	C	51.1	D	56.7	D		60.5		68.4		53.5		8.37		80.6		89.1
910554	212	TRUMAN	64.5	C	55.0	D	64.7	C		60.7		68.1		56.3		8.51		86.7		89.1
910555	213	FREEDOM	61.4	C	54.5	D	64.8	C		59.2		67.5		56.3		8.52		80.4		89.3
910556	214	PIONEER 24R45	58.2	D	48.1	E	67.8	C		60.6		66.8		57.4		8.88		81.0		92.1
910557	215	P03615A1-4-4	53.5	D	39.1	F	61.4	C		61.2		65.9	Q	55.1		9.50	*	66.0		93.0
910558	216	P04704A1-2-1-1	71.9	B	52.5	D	59.2	D		61.0		69.6		54.4		8.69		76.8		88.5
910559	217	P053A1-6-7	82.7	A	64.9	C	65.9	C		62.2		71.7		56.7		7.71		88.2		86.8
910560	218	P05377A1-7-12	71.2	B	46.0	E	70.7	B		62.5		69.4		58.4		9.50	*	84.4		92.4
910561	219	P0128A1-22-22	56.5	D	51.9	D	59.3	D		60.9		66.5	*	54.4		9.38	*	86.9		87.3
910562	220	MOCHA	67.5	C	59.8	D	69.5	C		61.3		68.7		58.0		8.83		92.8		87.5
910563	221	SHAVER	63.2	C	52.9	D	64.3	C		61.4		67.8		56.2		8.71		101.6		89.5
910564	222	RUBIN	66.0	C	36.8	F	51.6	D		61.5		68.4		51.7	*	10.41	Q	70.3		89.8
910565	223	ARENA	61.3	C	36.4	F	63.3	C		61.6		67.5		55.8		9.32		96.8		95.1
910566	224	CANON	54.3	D	22.1	F	36.4	F		61.3		66.1	*	46.4	Q	9.34		97.3		94.5
910567	225	NE06469	74.7	B	25.1	F	26.8	F		61.6		70.1		43.0	Q	9.41	*	96.6		90.8
910568	226	NI04420	70.7	B	32.6	F	30.4	F		62.8		69.3		44.3	Q	8.62		96.2		90.1
910569	227	NI04427	72.3	B	13.8	F	17.4	F		64.0		69.6		39.7	Q	9.54	*	89.0		93.0
910570	228	NE05459	79.1	B	36.5	F	17.2	F		63.7		71.0		39.7	Q	9.36	*	92.3		83.6
910571	229	NE06471	79.6	B	18.5	F	20.1	F		63.0		71.1		40.7	Q	10.27	Q	95.9		90.2
910572	230	NY03179FHB-10	77.3	B	75.6	B	78.8	B		60.0		70.6		61.2		8.17		88.7		84.4
910573	231	NY03189FHB-10	73.7	B	78.8	B	83.6	A		59.1		69.9		62.9		8.18		95.2		84.2
910574	232	NY03179FHB-12	73.9	B	77.8	B	92.2	A		57.4	*	70.0		65.9		7.48		94.8		88.2
910575	233	NYW103-21-9183	64.8	C	52.7	D	81.2	A		61.8		68.2		62.1		9.70	*	96.3		91.7
910576	234	NYW103-102-9103	69.3	C	63.8	C	77.8	B		59.0		69.1		60.9		9.33		86.5		86.8
910577	235	IL02-18228	63.6	C	33.7	F	40.9	E		63.7		67.9		48.0	Q	10.04	*	88.3		89.2
910578	236	IL04-7874	81.0	A	72.8	B	74.4	B		61.3		71.4		59.7		8.37		102.3		84.1
910579	237	IL04-7842	75.2	B	63.6	C	65.8	C		60.9		70.2		56.7		9.14		97.7		84.4
910580	238	IL04-10721	64.1	C	61.7	C	66.3	C		61.7		68.0		56.9		8.48		95.2		86.7
910581	239	IL04-10741	69.2	C	66.3	C	57.7	D		63.8		69.0		53.9		8.74		88.3		82.1

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SAMPLE NO.	ENTRY 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 SRC %
*	STD =	Freedom	61.43	C	54.53	D	64.83	C		59.23		67.48		56.34		8.52		80.35		89.32
910582	240	MD02W81-08-2	57.8	D	43.8	E	49.0	E			Q	66.8		50.8	*	10.20	Q	80.0		86.6
910583	241	MD02W81-08-4	59.7	D	17.7	F	21.9	F		60.3		67.1		41.3	Q	10.45	Q	70.1		90.6
910584	242	ACF213003B	68.8	C	48.1	E	68.0	C		59.9		68.9		57.4		9.37	*	79.3		91.1
910585	243	ACF126103	69.0	C	47.1	E	67.4	C		60.2		69.0		57.2		9.51	*	78.9		91.1
910586	244	ACF12004	69.0	C	10.4	F	10.3	F		62.4		69.0		37.2	Q	10.10	*	97.0		91.6
910587	245	RCUOGTR34	66.5	C	41.7	E	44.5	E			Q	68.5		49.2	Q	10.91	Q	82.6		84.9
910588	246	RCUOGTR35	62.3	C	41.7	E	57.9	D		61.2		67.6		53.9		9.39	*	85.0		91.3
910589	247	M05-1531	67.7	C	42.5	E	60.3	C		60.9		68.7		54.8		8.85		83.6		92.7
910590	248	B0390207	61.6	C	41.8	E	60.6	C		63.4		67.5		54.9		8.82		94.2		93.1
910591	249	03M1539#031	79.0	B	66.4	C	79.0	B		60.7		71.0		61.3		8.44		99.6		87.8
910592	250	03M1599#0007	74.6	B	58.1	D	70.4	B		62.5		70.1		58.3		8.12		95.7		90.0
910593	251	MO050101	66.4	C	43.1	E	54.7	D		62.7		68.5		52.8	*	8.66		87.3		91.4
910594	252	MO050921	69.8	C	53.7	D	69.4	C		59.2		69.2		57.9		8.89		92.0		90.0
910595	253	MO041020	67.2	C	56.9	D	61.8	C		61.3		68.6		55.3		9.06		82.8		86.5
910596	254	MO050219	63.4	C	32.7	F	62.0	C		63.6		67.9		55.4		8.91		95.4		97.2
910597	255	MO050144	61.9	C	32.0	F	61.5	C		62.9		67.6		55.2		8.20		95.9		98.8
910598	256	KY00C-2059-19	63.4	C	41.7	E	73.0	B		61.0		67.9		59.2		8.57		99.4		96.7
910599	257	KY00C-2515-02	56.5	D	46.5	E	55.9	D		60.8		66.5	*	53.2	*	9.08		82.4		89.4
910600	258	KY00C-2059-24	68.3	C	44.8	E	70.8	B		61.8		68.8		58.4		8.51		91.9		95.0
910601	259	KY00C-2567-01	62.3	C	41.2	E	59.0	D		62.4		67.7		54.3		9.71	*	108.1		91.1
910602	260	KY00C-2143-08	67.1	C	37.3	F	41.4	E		62.8		68.6		48.1	Q	9.32		79.2		89.3
910603	261	MSU LINE E6003	66.8	C	57.0	D	58.4	D		61.2		68.6		54.1		9.73	*	101.2		84.2
910604	262	MSU LINE E7035R	59.2	D	55.6	D	68.3	C		60.6		67.0		57.5		8.80		84.9		89.1
910605	263	OH04-264-58	67.7	C	38.6	F	67.3	C		58.9		68.7		57.2		9.29		118.1		95.2
910606	264	OH04-264-58	67.5	C	49.6	E	78.7	B		61.1		68.7		61.2		8.49		104.1		94.9
910607	265	OH05-248-38	66.5	C	51.6	D	57.4	D		61.0		68.5		53.7		8.37		93.1		89.0
910608	266	VA07W-580	67.7	C	45.8	E	56.7	D		62.3		68.7		53.5		8.17		98.7		91.8
910609	267	VA07W-600	72.4	B	65.6	C	73.0	B		61.5		69.7		59.2		8.30		100.2		87.0
910610	268	VA07W-672	73.3	B	58.6	D	62.2	C		63.0		69.9		55.4		8.56		107.7		86.8
910611	269	VA06W-558	64.4	C	43.5	E	55.3	D		63.2		68.1		53.0	*	8.65		90.8		91.4
910612	270	VA06W-615	67.9	C	52.5	D	61.7	C		61.3		68.8		55.3		9.26		91.2		87.9
		average	67.38		47.53		58.74			61.45		68.67		54.21		9.02		90.73		89.78

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SAMPLE NO.	ENTRY NO.	ENTRY	FHB (0-3)	WEATHERING (Yes/No)	SPROUTING (0-3)	BLACK POINT (0-3)	SHRIVELING AFTER CLEANING (0-3)	COLOR	COMMENTS
910553	211	ERNIE					1		
910554	212	TRUMAN					1		
910555	213	FREEDOM					2		
910556	214	PIONEER 24R45					1-2		
910557	215	P03615A1-4-4					1		
910558	216	P04704A1-2-1-1					1		
910559	217	P053A1-6-7					1		
910560	218	P05377A1-7-12					1?		
910561	219	P0128A1-22-22					2		
910562	220	MOCHA					2		
910563	221	SHAVER					1-2		
910564	222	RUBIN					2		
910565	223	ARENA					1		
910566	224	CANON					1		
910567	225	NE06469					2		
910568	226	NI04420					2		
910569	227	NI04427					2		
910570	228	NE05459					1		
910571	229	NE06471					1		
910572	230	NY03179FHB-10					1		white
910573	231	NY03189FHB-10					1-2		
910574	232	NY03179FHB-12					1		
910575	233	NYW103-21-9183					1		
910576	234	NYW103-102-9103					1		
910577	235	IL02-18228					1		
910578	236	IL04-7874					1		
910579	237	IL04-7842					1-2		
910580	238	IL04-10721					1-2		
910581	239	IL04-10741					1		
910582	240	MD02W81-08-2					1		
910583	241	MD02W81-08-4					1		

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

2009M07 Ohm NUWWSN

Scab	Weathering	Sprouting
Yes	Yes	Yes
90%	5%	910553
moderate	very slight	910590

Moisture	Comments
12.47%	Fairly good shape over all, few white wheats

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SAMPLE NO.	ENTRY NO.	ENTRY	FHB	WEATHERING	SPROUTING	BLACK POINT	SHRIVELING AFTER CLEANING	COLOR	COMMENTS
			(0-3)	(Yes/No)	(0-3)	(0-3)	(0-3)		
910584	242	ACF213003B					1-2		
910585	243	ACF126103					1-2		
910586	244	ACF12004					2		
910587	245	RCUOGTR34					1?		
910588	246	RCUOGTR35					1		
910589	247	M05-1531					2		
910590	248	B0390207					1		
910591	249	03M1539#031					1?		
910592	250	03M1599#0007					1-2		
910593	251	MO050101					1		
910594	252	MO050921					1		
910595	253	MO041020					1		
910596	254	MO050219					1		
910597	255	MO050144					1		
910598	256	KY00C-2059-19					1		
910599	257	KY00C-2515-02					2		
910600	258	KY00C-2059-24					1-2		
910601	259	KY00C-2567-01					2		
910602	260	KY00C-2143-08					1		
910603	261	MSU LINE E6003					0		
910604	262	MSU LINE E7035R					1		
910605	263	OH04-264-58					1		
910606	264	OH04-264-58					1		
910607	265	OH05-248-38					1		
910608	266	VA07W-580					1		
910609	267	VA07W-600					1		
910610	268	VA07W-672					1		
910611	269	VA06W-558					1		
910612	270	VA06W-615					1		

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

EARLY GENERATION SCREENING
EVALUATION SUMMARY
2009 CROP

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		STD.		AVG.	
		DATA		DATA	
MILLING QUALITY SCORE		61.43	C	67.38	
BAKING QUALITY SCORE		54.53	D	47.53	
SE SCORE		64.83	C	58.74	

		STD.		AVG.		ADJ.		NOTATION		
		DATA		DATA		L.S.D.		BEGINS		
								*		Q
TEST WEIGHT		59.23		61.45		1.15		58.08		56.94
FLOUR YIELD		67.48		68.67		0.73		66.75		66.03
SOFTNESS EQUIV.		56.34		54.21		3.03		53.31		50.28
FLOUR PROTEIN		8.52		9.02		0.84		9.36		10.19
SUCROSE SRC		89.32		89.78		3.93				
LACTIC ACID SRC		80.35		90.73		3.54				

		A		B		C		D		E		F	TOTAL
MILLING SCORE		2		15		35		8		0		0	
BAKING SCORE		0		4		7		16		17		16	60
SOFTNESS EQUIV. SCORE		3		10		22		13		4		8	

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Nursery Average	67.38	47.53	58.74	61.45	68.67	54.21	9.02	90.73	89.78
Allis Database - Freedom	61.43	54.53	64.83	60.20	76.90		8.20	86.00	
Truman	64.53	55.03	64.69	60.72	68.10	56.29	8.51	86.75	89.09
Truman - Average	62.42	57.34	64.69	61.43	68.94	55.62	8.61	85.85	83.57
Truman - Standard Deviation	3.89	16.77	5.65	0.67	1.11	3.20	0.96	5.60	4.83
Freedom	61.43	54.53	64.83	59.23	67.48	56.34	8.52	80.35	89.32
Freedom - Average	61.81	64.39	61.41	59.74	69.13	53.82	8.61	78.69	81.29
Freedom - Standard Deviation	6.35	15.44	5.43	0.88	1.21	2.07	0.47	5.00	2.16
Ernie	66.05	51.07	56.71	60.50	68.40	53.50	8.37	80.59	89.11
Ernie - Average	55.77	65.16	68.14	60.25	68.25	54.86	8.86	88.34	84.74
Ernie - Standard Deviation	4.10	14.44	10.27	1.65	0.83	2.48	0.71	11.27	3.86

Conditional formatting set:

Blue = values less than two standard deviations from the mean of the database average

Black = values greater than two standard deviations from the mean of the database average