ADVANCED NURSERY EVALUATION

FOR SOFT WHEAT MILLING AND BAKING QUALITY

2009 CROP

Rich Minyo - Ohio State University

Wooster, OH

OWPT

STD = Hopewell

LAB NO.		Marketer	ENTRY	MILLING QUALITY SCORE		BAKING QUALITY SCORE		SOFT. EQUIV. SCORE			MICRO T.W. LB/BU		FLOUR YIELD %		SOFT. EQUIV. %		FLOUR PROT. %		LACTIC ACID SRC		SUCROSE SRC %		COOKIE DIAM. CM.		TOP GR.		WATER SRC	SODIUM CARB SRC
****	STD=	Public	Hopewell	55.60	D	71.43	B	76.82	B		62.33		68.30		59.79		8.07		121.12		88.54		18.72		4		54.54	69.94
920032	232	AGI	105	66.6	C	94.5	A	73.8	B		62.1		70.5		58.7		7.66		107.4		83.2		19.41		7		52.11	66.18
920036	236	AGI	106	58.1	D	82.5	A	75.1	B		63.9		68.8		59.2		8.54		116.9		87.0		19.05		6		53.14	69.79
920055	255	AGI	402	68.6	C	83.1	A	47.2	E		63.6		70.9		49.4	Q	8.57		113.2		86.8		19.07		4		54.94	66.62
920071	271	AGI	401	59.4	D	78.1	B	65.4	C		61.5		69.1		55.8	*	8.51		130.6		89.0		18.92		4		54.42	67.01
920076	276	AGI	205	72.8	B	40.4	E	72.1	B		62.1		71.7		58.2		8.48		107.3		86.7		17.79	Q	3		51.39	66.26
920003	203	AGRA	Rubin	58.4	D	86.8	A	64.5	C		62.0		68.9		55.5	*	8.74	*	122.7		86.7		19.18		6		51.13	65.99
920031	231	AGRA	Shaver	61.5	C	51.2	D	57.3	D		64.1		69.5		53.0	Q	9.00	*	103.6		89.4		18.12	Q	5		54.40	67.30
920034	234	AGRA	Mingo	66.5	C	46.3	E	57.5	D		64.4		70.5		53.0	Q	8.73	*	83.8		88.8		17.97	Q	0		56.41	70.79
920044	244	AGRA	Trevor	53.2	D	64.5	C	61.5	C		61.8		67.8		54.4	*	8.26		106.8		86.9		18.51		4		54.45	69.89
920047	247	AGRA	Arena	58.4	D	84.1	A	65.0	C		62.8		68.9		55.7	*	7.84		119.1		88.6		19.10		4		54.16	70.82
920062	262	AGRA	Silas	69.5	C	82.1	A	70.2	B		61.7		71.1		57.5		8.30		99.3		84.3		19.04		4		51.71	65.99
920067	267	AGRA	Mocha	59.4	D	69.5	C	73.6	B		62.9		69.1		58.7		8.62		103.0		86.3		18.66		3		51.72	67.23
920005	205	AgriPro	M03-3104B	55.6	D	86.2	A	55.9	D		62.6		68.3		52.5	Q	8.72	*	87.9		87.8		19.16		4		54.28	66.64
920014	214	AgriPro	M04-4566	70.8	B	72.2	B	71.8	B		63.0		71.3		58.0		8.27		104.1		92.5		18.75		5		55.29	70.59
920021	221	AgriPro	Branson	65.2	C	64.0	C	79.6	B		62.7		70.2		60.8		8.02		110.7		86.9		18.50		2		52.31	69.11
920029	229	AgriPro	W1377	56.9	D	69.7	C	58.6	D		65.6		68.6		53.4	*	7.94		117.9		91.1		18.67		6		55.88	73.71
920017	217	Beck	113	48.5	E	60.7	C	71.2	B		64.9		66.9	*	57.8		7.93		111.5		95.8		18.40	*	4		60.04	75.60
920026	226	Beck	137	55.2	D	60.9	C	46.1	E		64.3		68.2		49.0	Q	8.36		122.4		95.4		18.41	*	6		56.41	69.32
920030	230	Beck	122	74.2	B	56.1	D	75.8	B		62.4		72.0		59.5		8.05		103.4		85.6		18.26	*	1		52.57	66.11
920054	254	Beck	164	72.1	B	44.6	E	70.9	B		61.4		71.6		57.7		7.48		114.3		87.6		17.92	Q	3		52.82	66.73
920037	237	Buckeye	Lucas	63.5	C	67.7	C	66.9	C		62.2		69.9		56.3	*	8.16		130.2		90.2		18.61		4		53.93	68.31
920004	204	Dyna-Gro	V9723	76.5	B	94.1	A	77.3	B		62.9		72.5		60.0		7.88		102.5		87.5		19.40		5		52.81	65.06
920007	207	Dyna-Gro	Shirley	67.4	C	96.7	A	67.2	C		62.6		70.6		56.4	*	8.20		96.0		89.7		19.48		7		56.63	71.12
920016	216	Dyna-Gro	9922	61.1	C	52.8	D	71.0	B		64.7		69.4		57.8		8.37		106.3		90.9		18.16	Q	4		56.54	69.17
920038	238	Dyna-Gro	9911	55.4	D	65.9	C	46.6	E		64.6		68.3		49.2	Q	8.31		121.4		94.2		18.56		3		55.87	69.03
920058	258	Dyna-Gro	V9812	69.1	C	39.8	F	66.8	C		64.3		71.0		56.3	*	8.38		98.7		86.7		17.77	Q	2		53.01	69.15
920018	218	Ebberts	570	73.8	B	74.0	B	77.5	B		61.9		71.9		60.0		7.95		102.5		87.9		18.80		3		53.18	65.85
920049	249	Ebberts	595	76.5	B	85.8	A	65.3	C		64.8		72.5		55.8	*	8.15		116.9		83.6		19.15		4		50.95	64.26
920050	250	Ebberts	590	56.3	D	48.3	E	43.2	E		64.8		68.4		48.0	Q	8.61		125.4		94.5		18.03	Q	4		55.89	70.45
920070	270	Ebberts	501	56.3	D	64.5	C	49.6	E		64.3		68.4		50.3	Q	8.61		123.1		92.8		18.51		4		55.18	68.70
920011	211	Excel	442	72.0	B	54.4	D	51.0	D		63.6		71.6		50.8	Q	8.75	*	113.3		88.7		18.21	Q	4		56.36	66.89
920046	246	Excel	286	72.7	B	61.6	C	75.4	B		63.4		71.7		59.3		8.30		98.8		82.9		18.43	*	3		52.45	66.85
920063	263	Excel	234	65.4	C	41.5	E	59.9	D		64.7		70.3		53.9	*	8.07		107.6		85.3		17.82	Q	4		55.43	68.68
920069	269	Excel	367	65.9	C	35.7	F	75.5	B		63.3		70.4		59.3		8.76	*	116.5		89.9		17.65	Q	2		51.35	67.56
920010	210	Genesis	RO65	73.3	B	103.3	A	81.0	A		64.5		71.8		61.3		8.07		96.0		85.7		19.68		7		55.54	70.61

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****	STD=	Public	Hopewell	55.60	D	71.43	B	76.82	B		62.33		68.30		59.79		8.07		121.12		88.54		18.72		4		54.54	69.94
920043	243	Genesis	RO45	71.2	B	99.0	A	82.7	A		64.4		71.4		61.8		7.60		94.1		84.8		19.55		5		56.19	72.19
920027	227	Gries	Beuerlein	73.5	B	78.4	B	76.8	B		62.2		71.9		59.8		7.88		103.2		85.3		18.93		3		53.36	66.59
920053	253	Gries	Rattler	58.0	D	62.7	C	66.5	C		62.7		68.8		56.2	*	8.61		127.3		92.4		18.46	*	4		52.64	67.87
920039	239	MCIA	Red Ruby	68.0	C	50.2	D	82.6	A		63.2		70.8		61.8		8.12		111.1		86.1		18.08	Q	1		52.60	68.10
920006	206	Pioneer Brand	25R39	62.0	C	66.0	C	69.2	C		63.2		69.6		57.1		7.82		98.3		90.3		18.56		4		56.50	72.67
920033	233	Pioneer Brand	25R56	64.2	C	83.1	A	57.7	D		62.4		70.0		53.1	Q	7.60		87.8		84.7		19.07		6		53.85	65.88
920059	259	Pioneer Brand	25R62	70.2	B	50.4	D	71.0	B		61.7		71.2		57.8		8.00		104.0		87.9		18.09	Q	3		52.34	66.79
920064	264	Pioneer Brand	25R47	72.3	B	78.3	B	79.5	B		62.1		71.6		60.7		8.05		105.7		85.1		18.93		3		51.53	66.09
920052	252	Pro. Certified	Sunburst	43.1	E	21.2	F	48.6	E		65.6		65.8	Q	49.9	Q	8.41		111.9		97.8		17.21	Q	3		57.86	76.87
920061	261	Pro. Certified	Bravo	65.1	C	76.3	B	59.3	D		64.7		70.2		53.7	*	8.61		98.2		91.2		18.87		5		54.06	66.58
920008	208	Pub. Certified	Roane	57.4	D	71.3	B	67.0	C		66.0		68.7		56.4	*	8.62		121.5		96.0		18.72		6		57.85	72.71
920019	219	Pub. Certified	Hopewell	55.6	D	71.4	B	76.8	B		62.3		68.3		59.8		8.07		121.1		88.5		18.72		4		54.54	69.94
920020	220	Pub. Certified	Hopewell Gaucho	55.4	D	57.0	D	73.9	B		62.3		68.3		58.8		8.34		116.7		88.0		18.29	*	2		54.04	69.83
920057	257	Pub. Certified	Malabar	66.3	C	66.6	C	67.5	C		63.0		70.4		56.5	*	8.02		116.3		86.4		18.58		4		55.14	70.26
920066	266	Pub. Certified	Truman	60.2	C	77.1	B	55.8	D		64.1		69.2		52.4	Q	8.71		107.7		87.7		18.89		4		54.04	68.32
920079	279	Pub. Certified	Freedom	54.0	D	69.7	C	62.5	C		61.1	*	68.0		54.8	*	8.15		97.6		84.3		18.67		4		53.88	66.67
920012	212	Rupp	9xp51	70.6	B	79.3	B	46.9	E		63.8		71.3		49.3	Q	8.95	*	107.8		84.9		18.96		6		54.49	67.50
920060	260	Rupp	RS 908	72.3	B	36.9	F	64.5	C		64.3		71.6		55.5	*	8.57		101.9		86.5		17.68	Q	3		53.36	69.25
920068	268	Rupp	9xp34	53.9	D	52.4	D	47.2	E		64.4		68.0		49.4	Q	8.34		124.2		95.3		18.15	Q	4		56.38	67.88
920072	272	Rupp	RS 978	72.8	B	40.3	E	72.0	B		62.1		71.7		58.1		8.52		106.8		86.5		17.79	Q	2		50.87	65.97
920001	201	Seed Consultants	SC 1298	76.3	B	96.0	A	78.8	B		62.7		72.4		60.5		8.13		101.5		87.4		19.46		5		52.37	66.68
920002	202	Seed Consultants	SC 1348	70.5	B	101.3	A	78.3	B		63.3		71.3		60.3		8.34		102.8		84.4		19.62		6		52.73	67.51
920035	235	Seed Consultants	SC 1358	63.2	C	53.8	D	68.9	C		61.8		69.8		57.0		8.53		119.7		90.1		18.19	Q	2		53.32	68.35
920041	241	Seed Consultants	SC 1318	68.6	C	44.6	E	66.2	C		64.2		70.9		56.1	*	8.36		97.3		84.3		17.92	Q	2		53.90	68.66
920042	242	Seed Consultants	SC 1325	57.5	D	74.0	B	49.6	E		64.9		68.7		50.3	Q	8.57		118.4		91.7		18.80		5		54.68	67.68
920045	245	Seed Consultants	SC 1328B	59.1	D	47.0	E	75.6	B		64.4		69.0		59.4		7.95		108.6		89.1		17.99	Q	1		55.67	69.17
920051	251	Seed Consultants	SC 1339	51.1	D	91.5	A	91.4	A		61.8		67.4	*	64.9		7.55		96.7		88.8		19.32		3		54.63	71.24
920048	248	Shur Grow	SG-1557	73.6	B	93.7	A	76.8	B		62.1		71.9		59.8		7.90		102.6		84.8		19.39		4		51.81	66.37
920078	278	Shur Grow	SG-1567	60.2	C	41.8	E	64.4	C		61.6		69.2		55.4	*	8.57		128.7		87.7		17.83	Q	2		52.14	67.56
920015	215	Steyer	EXP 3223	62.1	C	-30.2	F	12.3	F		64.4		69.6		37.2	Q	8.90	*	130.2		106.6		15.67	Q	0		66.41	86.02
920023	223	Steyer	EXP 71EJS4	48.9	E	76.0	B	87.2	A		62.9		67.0	*	63.4		8.18		120.1		93.4		18.86		5		54.13	72.68
920028	228	Steyer	Jordan	55.0	D	45.7	E	47.9	E		64.6		68.2		49.7	Q	8.35		119.4		94.0		17.95	Q	6		56.27	68.79
920065	265	Steyer	Fatzinger	74.0	B	47.2	E	73.7	B		62.4		72.0		58.7		8.11		102.9		87.3		17.99	Q	1		52.46	66.66
920073	273	Steyer	Nafzinger	67.4	C	49.9	E	76.3	B		60.7	*	70.7		59.6		7.57		116.5		89.8		18.07	Q	3		53.70	69.27
920075	275	Steyer	Geary	51.3	D	86.1	A	87.1	A		62.1		67.4	*	63.4		8.19		99.5		89.9		19.16		3		51.81	69.25

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****	STD=	Public	Hopewell	55.60	D	71.43	B	76.82	B		62.33		68.30		59.79		8.07		121.12		88.54		18.72		4		54.54	69.94
920080	280	Steyer	Exp 901804	45.4	E	64.5	C	58.3	D		61.6		66.3	Q	53.3	Q	8.33		102.9		90.6		18.51		4		55.98	69.97
920009	209	Va. Tech	VA04W-259	67.0	C	94.2	A	63.0	C		64.1		70.6		55.0	*	8.62		104.1		90.1		19.41		6		52.09	64.67
920022	222	Va. Tech	VA04W-90	60.5	C	40.8	E	73.6	B		64.2		69.3		58.7		8.46		121.7		91.6		17.80	Q	4		54.85	71.32
920024	224	Va. Tech	VA03W-412	69.1	C	66.0	C	63.9	C		65.1		71.0		55.3	*	8.58		105.9		88.8		18.56		5		54.95	71.51
920013	213	Wellman	W 123	75.4	B	62.8	C	84.3	A		62.7		72.2		62.4		8.15		119.9		85.9		18.46	*	2		52.15	68.32
920040	240	Wellman	W 122	70.4	B	82.8	A	62.7	C		64.7		71.3		54.9	*	8.56		96.9		85.5		19.06		6		53.27	68.23
920056	256	Wellman	W X09	45.6	E	36.0	F	50.2	D		65.8		66.3	Q	50.5	Q	8.70		107.4		97.8		17.66	Q	3		59.56	76.62
920074	274	Wellman	W 132	73.6	B	42.7	E	74.3	B		62.1		71.9		58.9		8.19		105.4		87.5		17.86	Q	3		51.85	66.25
920077	277	Wellman	W 121	69.7	C	33.5	F	65.1	C		64.4		71.1		55.7	*	8.67		102.9		86.3		17.58	Q	2		52.55	66.96
			average	63.79		64.29		66.55			63.28		69.93		56.20		8.29		109.60		88.90		18.51		3.80		54.22	68.92

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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	WEATHERING	SPROUTING	BLACK POINT	SHRIVELING AFTER CLEANING	COMMENTS
		(0-3)	(Yes/No)	(0-3)	(0-3)	(0-3)	
201	SC 1298	1	N	0	2	0	0
202	SC 1348	1	Y	0	2	0	0
203	Rubin	1	?	0	1	0	0
204	V9723	1	?	0	2-?	0	0
205	M03-3104B	1-?	Y	0	2	0	0
206	25R39	1	Y	0	2	0	0
207	Shirley	1-?	Y	0	2-?	0	0
208	Roane	1-?	Y	0	2	0	0
209	VA04W-259	1	N	0	2	1	0
210	RO65	1	Y	0	3	0	0
211	442.00	1	Y	0	3	0	0
212	9xp51	1	Y	0	3	0	0
213	W 123	1	N	0	2	1	0
214	M04-4566	1-?	Y	0	3	0	0
215	EXP 3223	1-?	Y	0	2	0	0
216	9922.00	1	Y	0	2	0	0
217	113.00	1	Y	0	2	0	0
218	570.00	1	N	0	2	0	0
219	Hopewell	1-?	Y	0	1	0	0
220	Hopewell Gaucho	1-?	Y	0	1	1	0
221	Branson	1	N	0	1	0	0
222	VA04W-90	1	Y	0	2	0	0
223	EXP 71EJS4	1	N	0	1	0	0
224	VA03W-412	1-?	N	0	2	0	0
225	Bromfield	1	?	0	1	0	0
226	137.00	1	N	0	2(?)	0	0
227	Beuerlein	1	N	0	2	0	0
228	Jordan	1	N	0	2	0	0
229	W1377	2	Y	0	2	0	0
230	122.00	1	N	0	2	0	0
231	Shaver	2	Y	0	2	0	0

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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	WEATHERING	SPROUTING	BLACK POINT	SHRIVELING AFTER CLEANING	COMMENTS
		(0-3)	(Yes/No)	(0-3)	(0-3)	(0-3)	
232	105.00	1-?	Y	0	1	0	0
233	25R56	1	N	0	1	0	0
234	Mingo	1-?	Y	0	2	1	0
235	SC 1358	1-?	Y	0	2	0	0
236	106.00	1-?	Y	0	1	0	0
237	Lucas	1	Y	0	2	0	0
238	9911.00	1	N	0	1-?	0	0
239	Red Ruby	1-?	Y	0	2	0	0
240	W 122	1-?	Y	0	1-?	0	0
241	SC 1318	1-?	Y	0	2	0	0
242	SC 1325	1-?	Y	0	2	0	0
243	RO45	2	Y	0	3	0	0
244	Trevor	2(?)	Y	0	2	1	0
245	SC 1328B	1	Y	0	2	0	0
246	286.00	1	?	0	2-?	0	0
247	Arena	2	Y	0	2	0	0
248	SG-1557	1	N	0	2	0	0
249	595.00	1	N	0	2-?	0	0
250	590.00	1	N	0	2(?)	0	0
251	SC 1339	1	Y	0	2	0	0
252	Sunburst	1-?	Y	0	2	0	0
253	Rattler	1-?	Y	0	2	0	0
254	164.00	1	?	0	1	0	Few white
255	402.00	1-?	Y	0	3	0	0
256	W X09	1	Y	0	2	0	0
257	Malabar	1	N	0	1-?	0	0
258	V9812	1	N	0	2(?)	0	0
259	25R62	1	Y	0	1	0	0
260	RS 908	1-?	?	0	2(?)	0	0
261	Bravo	2	Y	0	2-?	0	0
262	Silas	1-?	N	0	2(?)	0	0

ADVANCED EVALUATION
FOR SOFT WHEAT MILLING AND BAKING QUALITY
2009 CROP
Rich Minyo - Ohio State University
Wooster, OH
OWPT

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	WEATHERING	SPROUTING	BLACK POINT	SHRIVELING AFTER CLEANING	COMMENTS
		(0-3)	(Yes/No)	(0-3)	(0-3)	(0-3)	
263	234.00	1	N	0	2	0	0
264	25R47	2	Y	0	2	1	0
265	Marion	2	?	0	2	0	0
266	Truman	1	Y	0	2	0	0
267	Mocha	2	Y	0	1	0	0
268	9xp34	2(?)	Y	0	2(?)	0	0
269	367.00	1	Y	0	1-?	0	0
270	501.00	2(?)	Y	0	2	0	0
271	401.00	1-?	Y	0	?	0	0
272	RS 978	2(?)	Y	0	2	0	0
273	Nafzinger	1	Y	0	1	0	0
274	W 132	1-?	N	0	2	0	0
275	Geary	1-?	Y	0	1-?	0	0
276	205.00	1	Y	0	2	0	0
277	W 121	1-?	Y	0	2	0	0
278	SG-1567	1-?	Y	0	2	0	0
279	Freedom	2(?)	Y	0	2	0	0
280	Exp 901804	1-?	Y	0	1-?	0	0

ADVANCED NURSERY
EVALUATION SUMMARY
2009 CROP

Rich Minyo - Ohio State University
Wooster, OH
OWPT

		STD.		AVG.	
		DATA		DATA	
MILLING QUALITY SCORE		55.60	D	63.79	
BAKING QUALITY SCORE		71.43	B	64.29	
SE SCORE		76.82	B	66.55	

		STD.		AVG.	ADJ.	NOTATION	
		DATA		DATA	L.S.D.		BEGINS
						*	Q
TEST WEIGHT		62.33		63.28	1.21	61.13	59.92
FLOUR YIELD		68.30		69.93	0.73	67.57	66.83
SOFTNESS EQUIV.		59.79		56.20	3.22	56.58	53.36
FLOUR PROTEIN		8.07		8.29	0.65	8.72	9.37
SUCROSE SRC		88.54		88.90			
LACTIC ACID SRC		121.12		109.60			
COOKIE DIAMETER		18.72		18.51	0.25	18.47	18.22

		A	B	C	D	E	F	TOTAL
MILLING SCORE		0	24	28	23	5	0	
BAKING SCORE		20	12	17	9	15	7	80
SOFTNESS EQUIV. SCORE		7	30	21	11	10	1	

Rich Minyo - Ohio State University

Wooster, OH

OWPT

ENTRY	MILLING	BAKING	SOFT.	TEST	ADJ.	SOFT.	FLOUR
	QUALITY	QUALITY	EQUIV.	WT.	YIELD	EQUIV.	PROT.
	SCORE	SCORE	SCORE	LB/BU	%	%	%
OWPT Nusery Average	63.79	64.29	66.55	63.28	69.93	56.20	8.29