

2011 OHIO WHEAT PERFORMANCE TEST



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OHIO WHEAT PERFORMANCE TEST, 2011
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The purpose of the Ohio Wheat Performance Test is to evaluate wheat varieties, blends, brands, and breeding lines for yield, grain quality and other important performance characteristics. This information gives wheat producers comparative information for selecting the varieties best suited for their production system and market. Varieties differ in yield potential, winter hardiness, maturity, standability, disease and insect resistance, and other agronomic characteristics. Selection should be based on performance from multiple test sites and years.

EVALUATION PROCEDURES

Each entry was evaluated at five test sites (see front cover) using four replications per site in a randomized complete block design. Plots consisted of 7 rows, 7.5 inches apart and 35 feet long. Participating companies specified the seeding rate used for each of their varieties. Tests were planted within sixteen days after the fly-safe date and approximately 30 pounds of nitrogen was applied at planting followed by the addition of 70-100 pounds in early spring. Herbicides and insecticides were applied as needed for weed and insect control, and the following data were collected:

Yield is reported in bushels per acre at 13.5 percent moisture.

Test Weight is reported in lb/bushel averaged across all locations.

Seed Size is thousands of harvested seeds per pound (Ex: 15.5 = 15,500 seeds per lb.).

Percent Lodging is the percent of plants that lean more than 45 degrees from vertical.

Plant Height is the distance from the soil surface to the top of the heads.

Heading Date was the average calendar day of the year on which 50 percent of the heads were completely emerged. (Example: Day 136 = May 16.)

Fusarium Head Blight (FHB) Varieties were evaluated in an inoculated disease screening nursery at Wooster. FHB was rated as the percentage of spikelets diseased per plot (disease index).

Powdery mildew (PM) Powdery mildew (caused by *Blumeria graminis* f. sp. *tritici*) was evaluated at Wooster when most varieties were at the heading (Feekes growth stage 10.5) growth stage. Each plot was rated on a 0 to 10 scale where: 0 = 0 to trace % leaf area covered; 1 = leaf 4 with trace - 50%; 2 = leaf 3 with 1-5%; 3 = leaf 3 with 5-15%; 4 = leaf 3 with > 15%; 5 = leaf 2 with 1-5%; 6 = leaf 2 with 5-15%; 7 = leaf 2 with >15%; 8 = leaf 1 with 1-5%; 9 = leaf 1 with 5-15%; and 10 = leaf 1 with >15% leaf area covered (leaf 1 = flag leaf). This scale takes into account the percentage leaf area affected and the upward progress of the disease on the plants.

Glume Blotch (SGB) *Stagonospora glume blotch* was rated at Feekes growth stage 11.3 as average percent spike area diseased.

Flour Yield is the percent flour yield from milled whole grain.

Flour Softness is the percent of fine-granular milled flour. Values higher than approximately 50 indicate kernel textures that are appropriate for soft wheat. Generally, high values are more desirable.

CULTURAL PRACTICES BY TEST SITE

	Test Site				
	1	2	3	4	5
County	Wood	Crawford	Wayne	Darke	Pickaway
Previous Crop	Soybean	Soybean	Soybean	Soybean	Soybean
Soil Type	Hoytville	Blount	Canfield	Kokomo	Miamian
Tillage	Reduced Till	Reduced Till	Reduced Till	No-Till	No-Till
Plant Date	Oct. 5	Oct. 11	Oct. 12	Oct. 1	Oct. 8
Soil pH	5.7	6.3	6.4	6.5	6.2
Soil Test P (ppm)	57	46	63	53	9
Soil Test K (ppm)	220	133	168	164	78
Fertilizer (N, P, K)	120-78-78	108-46-0	125-80-105	115-0-0	115-0-0
Herbicides	Buctril	Harmony Extra	None	None	Harmony Extra
Insecticide		Warrior	Warrior		
Harvest Date	July 7	July 6	July 10	July 5	June 30

GROWING CONDITIONS

Planting of the 2011 test was slightly delayed in the fall of 2010 due to field and weather conditions. Fall growth was excellent at all test sites due to an extended warm fall season. Winter survival was very good due to snow cover through January and the general lack of harsh weather in February and March. The weather in April and early-May was cool and had above average precipitation. The saturated soil conditions effected early spring growth, plant vigor and overall stands. A mid May warm-up accelerated plant growth and the crop headed a few days later than normal. Temperature in late May and early June were above normal in Southern Ohio which shortened the grain fill period and reduced yields. Decreased yields and test weights were observed at Circleville and Greenville where Fusarium Head Blight and Stagonospora Glume Blotch infected susceptible varieties.

RESULTS

Results of the 2011 wheat performance evaluation are presented in Tables 1-3. Entries in the data tables are arranged by seed source. A least significant difference (LSD) value can be used to determine if the performance of two varieties was statistically different. The yields of two varieties are expected to be significantly different 70 percent of the time if their yields differ by more than the LSD value reported. Flour yield and softness tests were performed by USDA-ARS Soft Wheat Quality Laboratory, at OARDC in Wooster, OH, Dr. Peg Redinbaugh, interim Research Leader.

Test results for the 70 soft red winter wheat varieties tested in 2011 are presented in Table 1. Tables 2 and 3 contain multi-year variety performance data. Depending on variety and test site, yields in 2011 varied between 53.1 and 107.4 bushels per acre, and test weight ranged from 54.7 to 63.3 pounds per bushel. Yield differences between test sites were due primarily to the cool wet spring, weather during the grain fill period, and disease level. Winter survival was excellent due to the mild winter and there was little plant lodging. Variety selection should be

based on disease resistance, average yield across test sites and years (Tables 2 & 3), winter hardiness, test weight and standability. Particular emphasis should be placed on FHB as this is important in reducing vomitoxin in grain.

Table 4 contains reaction of winter wheat varieties to various diseases in Ohio and Table 5 contains the company contact information and seed treatments used for each variety entered in the 2011 wheat performance trial.

This report can be found on the Internet at: www.agcrops.osu.edu and www.ag.ohio-state.edu/~perf. Any column of data can be sorted by clicking at the top of the column, which makes it easy to arrange varieties in order by any characteristic for comparison purposes.

Inclusion of varieties in the Ohio Wheat Performance Test does not constitute an endorsement of any variety by The Ohio State University, Ohio Agriculture Research and Development Center, or Ohio State University Extension.

Acknowledgments: We thank our farmer cooperators for their contributions to the 2011 wheat variety testing program. We are grateful for the assistance provided by Lynn Ault, OARDC Wooster, Matt Davis, OARDC Northwest Branch Research Station, and Steve Prochaska, OSU-Crawford Co. Extension. We thank Tim Bowman in Communications and Technology for his assistance in preparing the test results for publication.

Table 1. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2011.

Brand	Variety	Seeds/ ft row	Yield					Characteristics					Disease**			Grain Quality		
			Site1*	Site 2	Site 3	Site 4	Site 5	Avg.	Stand	Test Wt.	Seeds /lb	Lodg.	Ht.	Head Date	PM	FHB	SGB	Flour
			-----bu/ac-----					%	lb/bu	(1000)	%	in.		1-10	%	%	%	%
AGI	107	26	101.7	83.9	76.2	74.0	83.9	100	58.6	15.1	2	39	145	5.0	30	5	71.8	58.9
AGI	205	26	101.5	84.0	64.1	71.1	80.2	99	58.4	13.4	0	45	143	6.3	22	5	71.8	62.2
AGI	206B	26	102.6	85.5	74.0	75.4	84.4	99	60.6	14.8	0	39	143	6.0	10	10	69.3	62.9
AGI	209	26	93.3	77.4	67.8	70.6	77.3	99	60.4	13.8	17	40	144	2.7	10	2	70.3	57.2
AGI	401	26	93.9	72.3	61.5	70.3	74.5	99	58.9	15.5	23	42	146	5.3	9	2	70.4	55.3
AGI	402B	26	93.4	72.7	58.9	71.8	74.2	98	59.8	13.0	2	44	145	7.3	4	10	71.0	58.5
Beck	113	27	101.0	87.7	66.9	71.3	81.7	100	60.2	12.3	0	38	144	5.7	32	10	67.4	61.1
Beck	126	26	107.4	92.7	69.1	74.2	85.9	99	58.8	12.8	1	44	144	5.7	19	10	72.0	60.0
Beck	135	26	102.2	87.8	69.2	68.9	82.0	99	59.3	12.1	1	41	145	4.7	16	5	70.7	61.9
Buckeye	Abe	25	100.7	82.3	71.4	69.0	80.8	99	60.2	15.4	0	38	144	5.0	4	5	68.9	63.3
Direct Enterprises	Quest	25	101.9	82.7	68.7	75.8	82.3	99	58.1	16.0	0	39	146	7.0	19	5	70.0	66.1
Direct Enterprises	Sienna	25	105.7	90.1	69.6	70.5	84.0	100	59.2	12.5	0	45	144	5.7	22	2	72.1	61.2
Dyna-Gro	9012	25	95.9	81.4	61.1	69.2	76.9	100	60.6	12.4	0	36	143	6.3	11	10	72.2	58.2
Dyna-Gro	9042	24	101.9	87.7	65.1	65.2	80.0	98	58.7	11.0	0	37	143	4.7	20	5	69.7	57.7
Dyna-Gro	9053	22	99.0	83.5	70.1	76.5	82.3	100	57.6	14.6	0	39	145	6.3	22	5	70.2	60.5
Dyna-Gro	9911	24	96.0	80.7	60.0	74.4	77.8	99	60.7	13.0	2	40	144	5.3	14	5	68.7	47.5
Dyna-Gro	9922	24	105.4	84.6	67.2	74.4	82.9	98	59.7	16.0	0	40	143	3.3	7	5	70.2	63.4
Ebberts	590	25	96.1	74.1	67.6	71.1	77.2	98	60.8	12.8	8	40	144	5.0	10	5	69.1	49.8
Ebberts	595	25	90.5	75.2	67.7	69.7	75.7	100	61.0	14.1	7	39	142	6.0	13	5	72.7	61.0
Ebberts	634	25	91.1	75.7	70.2	76.3	78.3	99	60.4	14.9	11	40	144	3.7	20	15	70.8	57.5
Excel	168	26.2	82.1	66.0	58.6	63.0	67.4	100	62.0	16.3	21	38	142	6.7	11	5	69.6	50.7
Excel	234	26.2	101.2	78.8	72.4	73.1	81.4	100	60.0	14.9	5	41	144	4.0	10	15	70.7	57.8
Excel	242	26.2	103.8	89.6	66.9	74.5	83.7	100	60.4	13.5	0	40	144	6.3	8	2	70.4	61.1
JGL	EXP 1102	25	106.8	90.5	78.4	74.7	87.6	100	58.5	13.0	1	39	143	6.7	11	5	70.2	62.3
JGL	EXP 1103	25	106.2	92.0	78.8	77.3	88.6	100	59.0	12.3	0	39	145	7.0	8	5	72.3	61.0
JGL	EXP 1105	25	99.2	79.3	76.2	73.9	82.2	99	60.9	13.3	1	40	144	4.3	7	2	69.0	46.6
Pioneer Brand	25R30	25	99.2	84.5	68.3	66.5	79.6	99	60.1	11.9	0	38	143	5.3	27	5	70.1	58.7
Pioneer Brand	25R32	25	100.8	86.4	76.5	75.2	84.7	99	60.7	13.6	0	38	144	6.0	6	5	72.3	40.5
Pioneer Brand	25R34	25	105.9	86.6	74.4	70.9	84.4	100	59.0	14.7	0	40	145	7.7	5	5	71.3	62.5
Pioneer Brand	25R39	25	101.9	87.0	68.4	74.5	83.0	97	59.4	14.0	1	39	145	6.0	8	5	69.5	55.2
Pro. Certified	Bravo	24	86.2	63.1	64.6	72.6	71.6	98	58.8	12.8	17	40	142	6.3	8	5	70.5	59.7
Pro. Certified	Rumor	24	92.7	63.9	70.0	62.9	72.4	99	57.1	17.2	2	39	146	3.3	8	15	69.0	59.9
Pro. Certified	Sunburst	24	95.6	78.3	65.4	73.4	78.2	99	61.4	16.0	0	34	146	3.7	4	5	66.4	56.1
Pub. Certified	Bromfield	24	94.8	79.6	57.0	62.1	73.4	99	60.0	14.8	0	40	146	4.3	4	20	69.9	52.4
Pub. Certified	Freedom	25	91.4	73.1	61.2	59.2	71.2	99	57.5	16.0	12	41	146	4.0	9	5	68.8	55.8
Pub. Certified	Hopewell	24	92.5	74.6	65.2	67.5	74.9	100	59.2	14.5	0	40	146	4.3	17	5	67.8	63.5
Pub. Certified	Malabar	24	94.6	62.5	73.3	66.3	74.2	99	59.3	17.7	0	44	146	4.3	7	5	69.5	62.8
Pub. Certified	Truman	24	100.7	86.3	68.5	68.2	80.9	100	60.4	14.7	1	42	148	5.0	4	10	69.1	59.7
Rupp	RS 934	24	96.9	74.9	62.7	74.2	77.2	98	60.4	13.5	2	40	144	5.3	8	10	68.8	48.0

Table 1, continued

Brand	Variety	Seeds/ ft row	Yield					Characteristics					Disease**			Grain Quality			
			Site1*	Site 2	Site 3	Site 4	Site 5	Avg.	Stand	Test Wt.	Seeds /lb	Lodg.	Ht.	Head Date	PM	FHB	SGB	Flour	Soft- ness
			-----bu/ac-----					%	lb/bu	(1000)	%	in.		1-10	%	%	%	%	
Rupp	RS 935	24		98.0	86.9	73.5	76.0	83.6	100	57.8	17.3	0	36	143	5.7	10	5	72.2	58.8
Rupp	RS 967	24		99.0	84.1	66.8	65.5	78.9	96	60.4	15.3	0	39	143	6.0	3	2	69.6	63.1
Rupp	RS 978	24		98.4	81.5	53.1	70.2	75.8	99	58.5	14.2	0	45	143	6.0	14	10	71.8	62.0
Seed Consultants	SC 1311	27		92.1	78.4	65.7	70.3	76.6	100	60.0	14.6	13	40	144	3.7	15	10	70.5	57.9
Seed Consultants	SC 1321	27		101.2	84.8	66.0	76.8	82.2	98	57.8	16.7	0	35	143	5.7	4	5	72.4	57.2
Seed Consultants	SC 1341	27		94.3	82.7	64.9	74.2	79.0	99	57.9	15.2	0	36	145	8.7	5	15	70.4	64.8
Shur Grow	SG-1540	22.5		93.0	75.3	67.4	70.0	76.4	99	60.9	13.2	2	40	142	7.3	18	2	72.8	57.9
Shur Grow	SG-1549	22.5		97.7	75.9	65.4	74.3	78.3	99	60.4	12.6	6	40	144	4.7	6	2	68.8	48.0
Shur Grow	SG-1559	22.5		100.1	82.3	61.6	66.0	77.5	98	58.2	15.2	1	39	146	5.3	24	5	71.1	58.7
Shur Grow	SG-1560	24.2		98.0	81.5	65.5	69.6	78.7	100	60.2	15.2	0	38	144	5.3	7	15	69.4	63.4
Steyer	Ashlyn	25		100.5	82.9	64.2	67.0	78.6	98	60.3	15.0	0	38	144	5.3	4	5	69.6	63.0
Steyer	Crestline	25		98.8	76.5	67.8	64.7	77.0	98	60.4	13.2	2	39	144	4.0	8	2	68.8	50.6
Steyer	Jordan	25		97.0	79.1	65.3	76.7	79.5	98	60.5	13.0	4	41	144	5.0	6	10	68.5	47.8
Steyer	Kidwell	25		100.4	87.7	69.6	76.5	83.5	100	57.5	16.6	0	36	143	5.7	15	5	72.0	58.8
Steyer	Marion	25		103.4	85.1	67.3	72.1	82.0	98	59.0	10.9	1	36	144	5.0	14	5	69.6	57.6
Steyer	Quin-Lee	25		103.9	85.9	57.6	66.5	78.5	98	59.4	15.4	0	40	144	3.7	8	20	70.0	59.5
Steyer	Sebree	25		95.8	82.4	76.2	64.7	79.8	99	60.9	13.8	5	40	141	7.7	24	5	70.2	64.1
Strike	936	25		103.2	84.6	67.0	73.6	82.1	97	57.9	15.9	0	35	143	6.3	9	10	72.2	59.2
Strike	937	25		101.1	86.5	63.1	69.5	80.1	100	58.5	11.4	0	37	144	5.0	12	10	69.4	58.3
Strike	938	25		98.7	83.9	65.7	68.8	79.3	100	60.3	14.7	0	38	143	5.3	5	10	69.4	64.4
Syngenta	Oakes	24.2		97.7	83.3	65.4	69.6	79.0	100	60.8	15.5	1	40	146	7.7	13	5	70.3	54.8
Syngenta	SY 1526	24.2		97.7	80.4	66.5	72.4	79.3	100	58.4	12.2	1	41	142	6.7	9	10	70.4	59.3
Syngenta	W1104	22.5		102.2	87.2	75.1	74.2	84.7	99	58.6	12.9	1	38	145	5.0	7	15	69.8	56.1
Syngenta	W1377	24.2		98.0	78.0	60.6	60.9	74.4	99	61.3	14.0	1	42	145	8.3	8	10	69.1	55.5
Syngenta	W1566	23.7		87.9	74.7	64.3	69.1	74.0	100	57.1	12.8	2	42	144	3.3	9	10	71.1	62.2
Va. Tech	Merl	25		90.5	77.6	62.3	71.1	75.4	100	59.1	14.0	0	37	144	4.0	18	5	71.9	56.3
Wellman	W 122	27		90.6	80.6	60.0	67.2	74.6	100	58.1	16.1	2	39	144	5.7	33	5	71.7	64.4
Wellman	W 123	26		102.2	85.1	70.1	72.3	82.4	100	57.6	12.8	2	38	143	4.3	14	10	72.6	64.8
Wellman	W 124	26		100.2	88.2	67.9	72.1	82.1	100	59.9	13.4	0	42	144	5.7	15	5	69.8	60.0
Wellman	W 132	26		102.6	83.3	61.0	71.7	79.7	100	58.6	14.0	1	45	143	6.0	15	5	72.2	62.6
Yerks	Y2201	25		100.1	85.2	69.5	74.3	82.3	100	60.7	14.3	0	38	144	6.3	3	5	68.4	63.1
	High	27.0		107.4	92.7	78.8	77.3	88.6	100	62.0	17.7	23	45	148	8.7	33	20	72.8	66.1
	Average	24.9		98.3	81.3	67.0	70.8	79.3	99	59.5	14.2	3	40	144	5.5	12	7	70.3	58.5
	Low	22.0		82.1	62.5	53.1	59.2	67.4	96	57.1	10.9	0	34	141	2.7	3	2	66.4	40.5
	LSD (P=0.3)			3.1	2.2	5.9	3.8	2.9	1.3	0.5		6	0.7	0.4					
	CV			4.3	3.7	12.1	7.4	5.0	1.8	1.2		292	2.4	0.3					

* Site 1 results will not be reported.

** Scores are based on data from an inoculated, mist-irrigated screening nursery.

Table 2. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2010 and 2011.

Brand	Variety	Yield					Characteristics				
		Site 1*	Site 2	Site 3	Site 4	Site 5	Avg.	Test Wt.	Lodg.	Ht.	Head Date
		-----bu/ac-----					lb/bu	%	in.		
AGI	107		90.5	76.1	69.1	68.5	76.1	56.9	7	39	142
AGI	205		90.0	75.7	65.3	70.3	75.3	56.7	0	43	140
AGI	206B		90.0	79.8	73.3	71.2	78.6	58.9	0	38	140
AGI	402B		88.3	68.0	64.8	70.5	72.9	58.9	2	43	142
Beck	113		92.6	80.9	71.6	71.1	79.1	58.8	0	37	140
Beck	135		96.0	82.6	68.8	71.6	79.8	58.3	1	40	142
Buckeye	Abe		88.7	76.9	72.7	68.1	76.6	58.7	0	37	141
Direct Enterprises	Quest		91.1	75.0	71.9	71.8	77.5	57.0	4	38	143
Direct Enterprises	Sienna		95.2	84.6	70.1	71.6	80.4	57.7	0	43	141
Dyna-Gro	9042		92.1	81.6	68.3	70.3	78.1	57.5	0	38	140
Dyna-Gro	9053		91.6	77.0	70.9	75.3	78.7	56.1	0	38	142
Dyna-Gro	9922		94.1	79.5	64.8	70.5	77.2	57.8	0	40	140
Ebberts	590		89.8	75.2	72.8	73.3	77.8	59.8	4	38	140
Ebberts	595		83.8	68.3	67.0	69.7	72.2	60.3	6	38	138
Ebberts	634		88.1	68.3	70.6	74.8	75.5	59.5	14	39	140
Excel	234		90.9	70.1	74.0	72.8	77.0	59.3	8	40	140
Excel	242		93.0	76.2	70.0	72.5	77.9	59.0	2	39	141
Pioneer Brand	25R39		89.5	74.0	68.9	71.6	76.0	57.6	1	38	142
Pro. Certified	Bravo		78.8	62.1	68.4	70.3	69.9	57.9	8	40	139
Pro. Certified	Sunburst		87.6	79.0	66.3	69.2	75.5	60.6	0	34	143
Pub. Certified	Freedom		84.6	66.2	64.3	62.4	69.4	56.3	15	40	143
Pub. Certified	Hopewell		86.2	71.8	65.6	66.9	72.6	58.2	0	39	143
Pub. Certified	Malabar		88.5	70.1	73.4	69.4	75.3	59.1	0	43	143
Pub. Certified	Truman		91.5	78.2	70.6	70.4	77.7	60.1	6	41	144
Rupp	RS 934		89.7	75.1	69.4	75.3	77.4	59.7	1	38	140
Rupp	RS 935		90.7	78.6	72.1	73.8	78.8	56.4	0	35	140
Rupp	RS 967		88.1	77.5	69.3	66.8	75.4	58.9	0	38	140
Rupp	RS 978		88.8	75.2	61.1	71.7	74.2	56.8	0	44	140
Seed Consultants	SC 1311		86.6	73.4	68.0	70.4	74.6	59.1	13	39	140
Seed Consultants	SC 1321		91.0	75.5	68.3	75.0	77.5	56.4	0	35	140
Seed Consultants	SC 1341		88.4	70.1	72.7	75.0	76.5	56.6	0	36	141
Shur Grow	SG-1540		84.5	65.2	68.1	68.6	71.6	60.2	7	39	139
Shur Grow	SG-1549		88.6	72.2	70.2	73.3	76.0	59.4	3	39	140

Table 2, continued

Brand	Variety	Yield						Characteristics			
		Site 1*	Site 2	Site 3	Site 4	Site 5	Avg.	Test Wt.	Lodg.	Ht.	Head Date
		-----bu/ac-----						lb/bu	%	in.	
Shur Grow	SG-1559		88.4	71.3	61.9	65.7	71.8	56.5	6	39	143
Shur Grow	SG-1560		88.4	76.5	70.0	68.0	75.7	58.7	0	37	140
Steyer	Ashlyn		89.1	77.7	68.9	67.4	75.8	58.8	0	37	141
Steyer	Marion		94.6	81.5	69.7	72.0	79.5	57.6	0	36	140
Steyer	Quin-Lee		92.3	77.3	59.5	67.2	74.1	57.8	0	39	140
Strike	936		93.3	77.7	68.6	74.0	78.4	56.6	0	35	140
Strike	937		92.5	82.0	67.0	70.0	77.9	57.3	0	37	140
Strike	938		88.6	77.8	68.4	68.8	75.9	58.8	0	37	140
Syngenta	W1104		92.6	79.0	73.1	73.3	79.5	57.8	5	38	142
Syngenta	W1377		91.5	69.1	64.4	66.4	72.8	60.2	2	40	142
Syngenta	W1566		82.4	77.3	61.5	67.7	72.2	55.5	3	42	141
Va. Tech	Merl		80.3	74.0	57.8	69.5	70.4	57.1	0	37	140
Wellman	W 122		82.4	75.7	61.4	66.1	71.4	55.7	1	38	141
Wellman	W 123		91.6	79.9	70.6	71.2	78.4	55.9	2	37	139
Wellman	W 132		91.7	76.8	65.8	70.7	76.3	56.9	1	43	139
	High		96.0	84.6	74.0	75.3	80.4	60.6	15	44	144
	Average		89.3	75.3	68.2	70.5	75.8	58.0	3	39	141
	Low		78.8	62.1	57.8	62.4	69.4	55.5	0	34	138

* Hoytville results were not published in 2011.

Table 3. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2009 - 2011.

Brand	Variety	Yield					Avg.	Characteristics			
		Site 1*	Site 2	Site 3	Site 4	Site 5**		Test Wt.	Lodg.	Ht.	Head Date
		-----bu/ac-----						lb/bu	%	in.	
AGI	205		96.0	84.9	72.8		84.6	57.9	0	42	140
Beck	113		97.7	89.9	81.7		89.7	60.1	0	36	140
Dyna-Gro	9922		98.5	85.7	72.6		85.6	59.4	0	39	140
Ebberts	590		95.1	81.0	77.4		84.5	60.6	4	38	140
Ebberts	595		89.3	76.5	74.4		80.1	61.1	7	38	138
Pioneer Brand	25R39		97.0	81.9	73.6		84.2	58.7	0	37	142
Pro. Certified	Bravo		86.9	71.3	75.9		78.1	59.6	6	40	139
Pro. Certified	Sunburst		92.7	84.6	74.3		83.9	61.7	0	34	143
Pub. Certified	Freedom		89.5	74.7	70.2		78.1	57.2	12	39	143
Pub. Certified	Hopewell		91.1	79.4	71.4		80.6	59.0	0	39	143
Pub. Certified	Malabar		94.9	78.6	78.0		83.8	60.0	0	42	143
Pub. Certified	Truman		95.3	84.9	74.8		85.0	60.6	4	40	145
Rupp	RS 934		95.0	78.9	74.2		82.7	60.5	1	38	140
Rupp	RS 978		94.3	82.2	71.2		82.6	58.0	2	42	140
Syngenta	W1104		98.9	86.5	80.4		88.6	58.6	6	37	142
Syngenta	W1377		96.8	77.1	70.9		81.6	61.2	2	40	142
Wellman	W 122		92.0	83.9	71.7		82.5	57.6	2	38	141
Wellman	W 123		98.3	86.4	80.2		88.3	57.4	1	36	140
Wellman	W 132		98.6	83.4	75.9		86.0	58.0	0	42	140
	High		98.9	89.9	81.7		89.7	61.7	12	42	145
	Average		94.6	81.7	74.8		83.7	59.3	3	39	141
	Low		86.9	71.3	70.2		78.1	57.2	0	34	138

* Site 1 results were not published in 2011.

** Site 5 results were not published in 2009.

Table 4. Reaction of winter wheat varieties to various diseases in Ohio.

Brand	Cultivar	Powdery Mildew	Leaf Rust	Leaf Blotch*	Glume Blotch	Head Scab**	
AGI	106	MS			R	MS	
	107	MS			MR	S	
	205	MS	MS	MR	MR	S	
	206B	MS			MS	MR	
	209	R			R	MR	
	401	MS			R	MR	
	402B	S			MS	MS	
Beck	113	MS			MS	S	
	122	MR	MS	MR	MS	S	
	126	MS			MS	MS	
	134	MS				S	
	135	MR			MR	MS	
Buckeye	Abe	MS			MR	MR	
Certified - Proprietary	Bravo	MS	S	S	S	MS	
	Rumor	MR			S	MR	
	Sunburst	MR	R	MR	MR	MS	
Certified - Public	Bromfield	MR			S	R	
	Freedom	MR	MS	MS	S	MR	
	Hopewell	MR	S	S	S	MS	
	Malabar	MR			MR	MR	
	Merl	MR			MR	MS	
	Roane	S	MR	MR	S	MR	
	Truman	MS	MR	MR	MS	R	
Direct Enterprises	Sienna	MS			R	S	
	Quest	S			MR	MS	
Dyna-Gro	9012	MS			MS	MR	
	9042	MR			MR	MS	
	9053	MS			MR	S	
	9911	MS			MR	MR	
	9922	MR			MR	MR	
	Shirley	R	R	MR	MS	S	
	V9723	MS	S	MS	MS	S	
	590	MS			MR	MR	
	595	MS			MR	MR	
	634	MR			S	S	
	661	MR				MR	
	Excel	168	MS			MR	MR
		180	S				MR
209		S				MR	
234		MR			S	MR	
242		MS			R	MR	
442		S				MR	
JGL	EXP 1102	MS			MR	MR	
	EXP 1103	S			MR	MR	
	EXP 1105	MR			R	MR	
Pioneer Brand	25R30	MS			MR	S	
	25R32	MS			MR	MR	
	25R34	S			MR	R	

Table 4, continued

Brand	Cultivar	Powdery Mildew	Leaf Rust	Leaf Blotch*	Glume Blotch	Head Scab**
Pioneer Brand	25R39	MS			S	MR
	25R47	S	MR	MS	MR	S
	25R56	MS	MR	MR	MS	MR
	25R62	MR	MR	MS	MS	MR
	RS 934	MS			MS	MR
	RS 935	MS			MR	MR
	RS 967	MS			R	R
	RS 978	MS	MS	MS	MS	MR
Seed Consultants	SC 1298	MS	MS	MS	MS	MS
	SC 1301	MS				R
	SC 1311	MR			MS	MR
	SC 1321	MS			MR	MR
	SC 1341	S			S	R
Shur Grow	SG-1540	S			R	MS
	SG-1549	MR			R	MR
	SG-1559	MS			MR	S
	SG-1560	MS			S	MR
Steyer	Ashlyn	MS			MR	R
	Crestline	MR			R	MR
	Jordan	MS			MS	MR
	Kenton	S	R	MR		R
	Marion	MS			MR	MR
	Quin-Lee	MR			S	MR
	Sebree	S			MR	S
Strike	936	MS			MS	MR
	937	MS			MS	MR
	938	MS			MS	R
Syngenta	Branson	MR	R	MR	R	MS
	Oakes	S			MR	MR
	SY 1526	MS			MS	MR
	W1104	MS			S	MR
	W1377	S	MR	MR	MS	MR
	W1566	MR			MS	MS
Wellman	W 122	MS	MR	MS	MR	S
	W 123	MR			MS	MR
	W 124	MS			MR	MR
	W 132	MS	MS	MS	MR	MR
Yerks	Y2201	MS			MR	R

R = resistant; MR = moderately resistant; MS = moderately susceptible; S = susceptible;

Blank spaces = no data

Reactions scored during 2008-2011. Obtain new information each year due to expected changes in reactions over time.

* Leaf Blotch due to *Stagonospora nodorum*, *Bipolaris sorokinianum* and/or *Pyrenophora tritici-repentis*

** R = As resistant as or more resistant than Truman (R does not mean that the variety will not become infected, it means that it is among the most resistant we have at this time, based on multiple years of testing); MR = As resistant as or more resistant than Freedom but not as resistant as Truman; MS = moderately susceptible; S = susceptible

For additional disease information and wheat varieties, please visit our web site:

www.oardc.ohio-state.edu/ohiofieldcropdisease

Table 5. Ohio Wheat Performance Test, 2011 - Seed Source & Seed Treatment.

Brand	Producer	Variety	Seed Treatment
AGI	Advanced Genetics, Inc. 11491 Foundation Rd. Croton, OH 43013 740-893-2501 advancedgeneticsinc.com	107	Raxil XT
		205	Raxil XT
		206B	Rancona
		209	Rancona
		401	Rancona
		402B	Rancona
Beck	Beck's Hybrids 6767 E. 276 th St. Atlanta, IN 46031 800-937-2325 beckshybrids.com	113	Escalate
		126	Escalate
		135	Escalate
Buckeye	Powell Seeds 6300 CR 65 Ada, OH 45810 419-634-0763 www.buckeyehybrids.com	Abe	Dividend / Maxim
Certified	Ohio Seed Improvement Assoc. 6150 Avery Rd., Box 477 Dublin, OH 43017 614-889-1136 ohseed.org	Bravo	Rancona / Metastar ST / Macho
		Rumor	Rancona / Metastar ST / Storcide II
		Sunburst	Rancona / Metastar ST / Macho
Direct Enterprises	Direct Enterprises P.O. Box 978 Westfield, IN 46074 888-895-7333	Quest	Rancona / Metastar / Macho
		Sienna	Rancona / Metastar / Macho
Dyna-Gro	Dyna-Gro Seed 6221 Riverside Dr., Suite One Dublin, OH 43017 614-761-4110 cpsagu.com	9012	
		9042	
		9053	
		9911	
		9922	
Ebberts	Ebberts Field Seeds, Inc. 6840 N. SR 48 Covington, OH 45318 888-802-5715 ebbertsseeds.com	590	Proceed / T-22
		595	Proceed / T-22
		634	Proceed / T-22
Excel	Excel Brand Seed P.O. Box 320 Camp Point, Ill 62320 800-593-7708	168	Encase for Wheat
		234	Encase for Wheat
		242	Encase for Wheat
JGL	JGL, Inc. 3540 South US 231 Greencastle, IN 46135 765-653-5402 jglinc.com	EXP 1102	Dividend Extreme
		EXP 1103	Dividend Extreme
		EXP 1105	Dividend Extreme
Pioneer	Pioneer Hi-Bred International 59 Greif Parkway, Ste 200 Delaware, OH 43015 740-657-6120 pioneer.com	25R30	Dividend Extreme / Gaucho
		25R32	Dividend Extreme / Gaucho
		25R34	Dividend Extreme / Gaucho
		25R39	Dividend Extreme / Gaucho

Table 5, continued

<u>Brand</u>	<u>Producer</u>	<u>Variety</u>	<u>Seed Treatment</u>
Public	Ohio Seed Improvement Assoc. 6150 Avery Rd, Box 477 Dublin, OH 43017 614-889-1136 ohseed.org	Bromfield Freedom Hopewell Malabar Truman	Rancona / Metastar ST / Storcide II Raxil - Thiram Raxil - Thiram / Macho Rancona / Metastar ST / Macho Raxil - Thiram / Macho
Public	Virginia Polytechnic Inst. & Virginia Crop Improvement 4200 Cople Hwy. Mt. Holly, VA 22524 804-472-3500 viriniacrop.org	Merl	Raxil - Thiram / Storcide II
Rupp	Rupp Seeds, Inc. 17919 County Rd. B Wauseon, OH 43567 877-591-7333 ruppseeds.com	RS 934 RS 935 RS 967 RS 978	Dividend Extreme Dividend Extreme Dividend Extreme Dividend Extreme
Seed Consultants	Seed Consultants 648 Miami Trace Rd. SW Washington C.H., OH 43160 800-708-2676 seedconsultants.com	SC 1311 SC 1321 SC 1341	Dividend Extreme Dividend Extreme Dividend Extreme
Shur Grow	Heritage Cooperative, Inc. 2801 E. SR 296 Urbana, OH 43078 800-231-7333 heritagecooperative.com	SG-1540 SG-1549 SG-1559 SG-1560	Incentive RTU Incentive RTU Incentive RTU Incentive RTU
Steyer	Steyer Seeds 6154 N. CR. 33 Tiffin, OH 44883 800-231-4274 steyerseeds.com	Ashlyn Crestline Jordan Kidwell Marion Quin-Lee Sebree	Raxil XT / Maxim / Gaucho Raxil XT / Maxim / Gaucho Raxil XT / Maxim / Gaucho Raxil XT / Maxim / Gaucho Raxil XT / Maxim / Gaucho Raxil XT / Maxim / Gaucho Raxil XT / Maxim / Gaucho
Strike Genetics	Burtch Seed Company, Inc. 4742 Tama Rd. Celina, OH 45822 419-363-3713 www.burtchseed.com	936 937 938	Proceed / LSP Proceed / LSP Proceed / LSP
Syngenta	Syngenta 520 E. 1050 S. Brookston, IN 47923 219-669-4070 agriprowheat.com	Oakes SY 1526 W1104 W1377 W1566	Dividend Extreme / Cruiser Dividend Extreme / Cruiser Dividend Extreme / Cruiser Dividend Extreme / Cruiser Dividend Extreme / Cruiser
Wellman	Wellman Seeds, Inc. 23778 Delphos Jennings Rd. Delphos, OH 45833 800-717-7333 wellmanseeds.com	W 122 W 123 W 124 W 132	Encase for Wheat Encase for Wheat Encase for Wheat Encase for Wheat
Yerks	Yerks Seed, Inc. 20202 Notestine Rd. Woodburn, IN 46797 260-657-5127	Y 2201	Dividend Extreme / LSP / Cruiser