1995 SMALL-GRAIN VARIETY TRIALS

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Purpose

The purpose of these trials is to evaluate the performance of newly released and commercially available small-grain cultivars under local cultural practices and environmental conditions. Data obtained from these trials provide OSU Extension personnel, industry representatives, and local producers with area-specific information for cultivar selection. Additionally, the data provide public and private plant breeders with site-specific performance information for advanced lines and newly released varieties.

Eight cereal grain evaluation trials were conducted at the Malheur Experiment Station during the 1994-95 crop year. The OSU statewide winter cereal, winter barley, spring cereal, and spring barley trials were conducted as part of a statewide small-grain variety testing program. The HybriTech hybrid soft white winter wheat trials evaluated the performance of the company's proprietary hybrid soft white winter wheat lines. For the fourth year fall-planted fall-emergence and fall-planted winter-emergence wheat trials were conducted at the Malheur Experiment Station. The purpose of these trials is to develop a database to help local growers decide when to stop planting winter types and start planting spring types.

Procedure

All winter and spring trials, except the HybriTech hybrid soft white winter wheat trial, were planted in a randomized complete-block design with three replications. Each plot was planted on two 60-inch beds with seven rows spaced 7 inches apart on each bed. The dimensions of each plot were 10 feet wide by 15 feet long. The two HybriTech Trials were planted in a randomized complete-block design with four replications, and each individual plot measured 5 feet wide by 15 feet long. All trials were furrow irrigated. At maturity, harvest samples were collected from a 50-inch swath through the center of each plot, 62.5 square feet. All "harvester-run" samples from the OSU Statewide Trials were transported to the OSU campus at Corvallis where they were recleaned with a Pelz seed cleaner and then processed. The "harvester-run" samples from HybriTech and fall and winter emergence wheat trials were rough-cleaned with an aspirator cleaner and processed at the Malheur Experiment Station.

Winter Trials

The 1995 winter cereal trials followed the 1994 harvest of sweet corn. The field was disked two ways, chisel-plowed two ways, and floated twice. No preplant fertilizer was applied. The OSU statewide winter cereal, OSU statewide winter barley, fall-planted fall-emergence wheat, and two HybriTech hybrid soft white winter wheat trials were planted on October 18, 1994. Each HybriTech hybrid soft white winter wheat trial (Block 1 and Block 2) included 47 soft white hybrid and 3 common soft white winter wheat entries. All entries were drilled approximately 1 inch deep into moderately moist soil. The seeding rate for the OSU statewide winter cereal trial and the OSU statewide winter barley trial was 30 seeds per square foot. The seeding rate for the fall-planted fall-emergence wheat and the two HybriTech hybrid soft white winter wheat trials was 120 pounds per acre. To insure rapid uniform emergence, a 12-hour post-plant, pre-emergence sprinkler irrigation was applied over all 5 plantings.

The fall-planted winter-emergence wheat trial was planted at 120 pounds per acre on December 5, 1994. Except for drilling the seed through approximately 1 inch of snow and not applying the post-plant pre-emergence irrigation, the planting procedure was the same as for the previously described fall-planted trials.

On March 29, 1995, all six nurseries were top-dressed with approximately 140 lb/ac N as urea.

To control broadleaf weeds, a tank-mix containing 0.75 lb ai/ac bromoxynil and 0.75 lb ai/ac MCPA (Bronate 4EC), and 0.125 lb ai/ac dicamba (Banvel) in 20 gallons of water per acre was applied by ground-rig over the entire field on April 15, 1995.

The five wheat trials were furrow irrigated on May 17, June 2, and June 14. The winter barley trial was furrow irrigated on May 17 and June 3.

The OSU Statewide trials were harvested on August 3, 1995. The fall-planted fall-emergence and the fall-planted winter-emergence wheat trials were harvested on August 4. The HybriTech trials were harvested on August 9.

Spring Trials

The 1995 spring cereal trials were grown in a field cropped to soybeans. In the fall of 1994 the field was chisel-plowed two ways, disked two ways, floated twice, bedded-up on 60-inch centers, and laid by until spring. On March 24, 1995, the beds were spiketooth harrowed, floated, and re-furrowed. All entries in the two trials, the OSU statewide spring cereal and the OSU statewide spring barley, were drilled, approximately 1 inch deep into moist soil. The seeding rate for both plantings was 30 seeds per square foot.

On March 29 both trials were top-dressed with approximately 43 lb/ac N as urea.

On April 15 a tank-mix containing 0.75 lb ai/ac bromoxynil and 0.75 lb ai/ac MCPA (Bronate 4EC), and 0.125 lb ai/ac dicamba (Banvel) in 20 gallons of water per acre was applied by ground-rig over the entire field.

Irrigations were applied to the wheat/triticale trial on May 25, June 3, June 16, and July 5. The barley trial was irrigated on May 25, June 3, and June 16.

Both trials were harvested August 8, 1995.

Results and Discussion

1994-95 Winter Cereal Grain Trials

Good seedling emergence was noted in the OSU statewide winter cereal, OSU statewide winter barley, fall-planted fall-emergence wheat, and two HybriTech hybrid soft white winter wheat trials by the end of October 1994. Emergence in the Fall-planted winter-emergence wheat trial occurred during the last week of February 1995.

The OSU statewide winter cereal trial included 13 soft white winter wheats, 3 hard red winter wheats, 1 winter club wheat, and 3 winter triticales (Table 1). Yields for the soft white cultivars ranged from 159 bu/ac for OR 939645 to 127.7 bu/ac for Stephens. Test weights for the soft whites ranged from 63.4 lb/bu for Mac 1 to 60.1 lb/bu for WA 7663. Protein for the soft white cultivars ranged from 9.3 percent for WA 7663 to 11.1 percent for Mac 1. The average heading date (50 percent headed) for the trial was May 24. Heading dates for soft white wheat cultivars ranged from May 22 for Gene and Stephens to May 27 for Basin. At maturity, plant heights within the soft whites ranged from 30 inches for Basin to 41 inches for Mac 1. No significant lodging was observed within any entry in this trial.

The OSU statewide winter barley trial included 10 six-row feed barley entries (Table 2). Yields ranged from 8,670 lb/ac for AB-812 to 5,786 lb/ac for OR 7. Test weights ranged from 50.6 lb/bu for OR 7 to 48.0 lb/bu for the variety called Hundred. Protein ranged from 10.5 percent for Kold and Showin to 9.5 percent for AB-812 and OR 6. The average heading date (50 percent headed) for the nursery was May 20. Heading dates ranged from May 17 for AB-812 and OR 6 to May 22 for Kold, Hesk, and Hundred. At maturity, plant height ranged from 29 inches for Showin to 39 inches for OR 7. With the exception of Hesk, some degree of lodging was observed within all entries. Severe lodging was observed within the Hundred, Steptoe, and Showin plots.

Both the fall-planted fall-emergence wheat trial and the fall-planted winter-emergence wheat trial included the same eight soft white and two hard red wheat cultivars (Tables 3 and 4).

Yields in the fall-emergence trial ranged from 166.6 bu/ac for Stephens to 131.9 bu/ac for Meridian (Table 3). Test weights for the soft white types ranged from 62.3 lb/bu for

Alpowa to 58.5 lb/bu for MacVicar. The average heading date (50 percent headed) for the fall-emergence trial was May 21. Heading dates ranged from May 17 for Alpowa to May 26 for MacVicar and Meridian. The difference in the mean heading dates for winter versus spring cultivars was significant. At maturity, plant heights ranged from 34 to 39 inches. At harvest no significant lodging was observed.

In the winter-emergence trial, yields ranged from 154.9 bu/ac for Yolo to 121.3 bu/ac for Meridian (Table 4). Test weights for the soft white types ranged from 63.09 lb/bu for Centennial to 57.6 lb/bu for MacVicar. The average heading date (50 percent headed) for the winter-emergence trial was May 25. Heading dates ranged from May 20 for Alpowa and Yolo to June 2 for Meridian. At maturity, plant heights ranged from 34 to 36 inches. At harvest no significant lodging was observed.

Yields for Block 1 of the HybriTech hybrid soft white winter wheat ranged from 170.2 bu/ac for 24.1x172 to 140.6 bu/ac for Gene (Table 5). Yield differences between 24.1x172 and Stephens were not significant. The 61.6 lb/bu test weight for 45x68 was significantly greater than the test weights for Gene, Madsen, and Stephens. Yields for Block 2 ranged from 172.7 bu/ac for 871x113 to 147.3 for Gene (Table 6). The yield for 871x113 was significantly greater than the yield for Stephens. The 62.8 lb/bu test weight for 81x70R was significantly greater than the test weights for Gene, Madsen, and Stephens. Within the two trial blocks (1 and 2), the average heading date (50 percent headed) was May 25. All entries in both blocks headed between May 23 and May 28. At maturity, plant heights for the hybrid types ranged from 36 to 42 inches. In both blocks the mature height for Stephens was 37 inches. No lodging was observed within any entry in either block.

1995 Spring Cereal Grain Trials

Yields for the soft white types in the OSU statewide spring cereal trial ranged from 129.3 bu/ac for Wawawai to 91.2 bu/ac for Dirkwin (Table 7). Yields for the hard red types ranged from 111.3 bu/ac for Yolo to 90.7 bu/ac for WPB 926R. The yield for the triticale Juan was significantly greater than the yield for the triticale Victoria. Test weights for the soft white wheats ranged from 64.4 lb/bu for Wawawai to 58.6 lb/bu for Dirkwin. Test weights for the hard red cultivars ranged from 64.3 lb/bu for WPB 936R to 63.3 lb/bu for Anza. The test weight for Juan was significantly better than the test weight for Victoria. Protein for the soft white types ranged from 9.5 percent for ID 448 to 10.8 percent for Penawawa. Heading dates (50 percent headed) for the soft white wheats ranged from May 31 for Centennial to June 5 for ID 448. Heading dates for the hard red types ranged from May 30 for WPB 926R to June 3 for Anza and Yolo. At maturity, plant heights for the soft white cultivars ranged from 33 inches for Dirkwin, ID 471, and Treasure to 38 inches for Wawawai. No lodging was observed among any of the entries in this trial.

The OSU statewide spring barley trial included eight feed, four malting, three feed/malting, and one hulless cultivar (Table 8). Yields ranged from 6,389 lb/ac for Germain's 2319 to 4,572 lb/ac for Russell. Test weights ranged from 63.4 lb/bu for

WPB-BZ489-74 to 51.2 lb/bu for Columbia. Protein ranged from 13.4 percent for WPB-BZ489-74 to 9.8 percent for Colter. The average heading date (50 percent headed) for the trial was June 1. Heading dates ranged from May 27 for BSR 41 to June 4 for Columbia and Maranna. At maturity, plant heights ranged from 24 inches for Germain's 2319 to 34 inches for Russell. BSR 41, Crest, and 78Ab10274 lodged severely. Moderate lodging was noted within the Baroness, WPB-BZ489-74, Crystal, and Harrington plots.

Table 1. Statewide winter cereal trial planted October 18, 1994, and harvested August 3, 1995, at Ontario, Oregon. Malheur Experiment Station, Oregon State University, Ontario, Oregon, 1995.

Variety	Market class	Yield[1]	Test weight	Protein	Plant height	Heading date
		bu/ac	lb/bu	%	inches	
OR 939645	SW	159.0	60.4	9.9	31	May 26
WA 7663	SW	158.0	60.1	9.3	36	May 26
Meridian	HR	153.7	60.8	9.1	35	May 26
IDO 426	HR	151.6	62.4	10.0	36	May 25
Malcolm	SW	150.3	62.2	9.6	38	May 23
MacVicar	SW	150.2	62.1	10.1	37	May 23
Mac 1	SW	148.6	63.4	11.1	41	May 24
WA 7686	SW	146.9	61.4	9.7	37	May 25
W301	SW	146.0	61.4	9.6	37	May 24
Gene	SW	142.5	61.4	10.6	33	May 22
Basin	SW	141.4	61.3	9.5	30	May 27
Daws	SW	139.6	62.8	9.8	36	May 24
Hoff	HR	136.5	63.9	10.3	36	May 22
Madsen	SW	136.5	61.3	9.6	33	May 26
Hill 81	SW	134.9	61.5	9.5	37	May 26
Celia	Triticale	132.8	57.6	10.2	37	May 24
Rhode	Club	131.0	61.3	9.3	34	May 26
Stephens	SW	127.7	60.9	9.4	35	May 22
Parma	Triticale	127.2	56.6	8.7	42	May 24
Whitman	Triticale	117.7	56.1	9.6	44	May 19
Mean		141.6	60.9	9.7	36	May 24
LSD(0.05)		19.6	0.9	1.0	2	1
CV (%)		8.0	0.9	6.0	3	1

[1]Yield reported on basis of 60 lb/bu at 10 percent moisture.

Table 2. OSU statewide winter barley trial planted October 18, 1994, and harvested August 3, 1995, at Ontario, Oregon. Malheur Experiment Station, Oregon State University, Ontario, Oregon, 1995.

Variety	Yield[1]	Test weight	Protein	Plant height	Heading date	Lodging
	lb/ac	lb/bu	%	inches		%
AB-812	8670	48.9	9.5	35	May 17	>30 <40
OR 6	8535	49.1	9.5	33	May 17	>30 <40
SDM208	8255	50.3	10.1	34	May 19	None
Hesk	8001	48.8	9.9	34	May 22	>10 <20
Hundred	7669	48.0	10.2	36	May 22	>50 <60
Steptoe	7454	50.1	9.8	35	May 18	>50 <60
OR 81019	7432	50.0	10.3	33	May 18	>40 <50
Kold	6637	50.5	10.5	35	May 22	>10 <20
Showin	6456	48.6	10.5	29	May 20	100
OR 7	5786	50.6	9.8	39	May 21	>1 <10
Mean	7489	49.5	10.0	34	May 20	
LSD(0.05)	1246	0.7	0.6	3	1	
CV (%)	10	0.8	3.4	6	3	

[1]Yield reported on basis of 10 percent moisture.

Table 3. Malheur fall emergence wheat trial planted October 18, 1994; emerged late October 1994; harvested August 4, 1995. Malheur Experiment Station, Oregon State University, Ontario, Oregon, 1995.

Variety	Market class	Yield[1]	Test weight	Plant height	Heading date	Lodging
		bu/ac	lb/bu	inches		%
Stephens	SWW	166.6	60.6	38	May 23	None
Penawawa	SWS	159.2	61.0	38	May 18	<6
Alpowa	SWS	152.9	62.3	36	May 17	<6
Malcolm	SWW	151.2	59.0	39	May 25	None
Centennial	SWS	148.5	62.1	35	May 18	<6
IDO 448	SWS	148.1	61.9	37	May 21	None
MacVicar	SWW	147.6	58.5	37	May 26	None
Yolo	HRS	144.6	60.9	34	May 19	None
Treasure	SWS	134.6	61.4	38	May 20	>6 <21
Meridian	HRW	131.9	60.5	36	May 26	None
Mean		148.5	60.8	37	May 21	
LSD(0.05)		14.9	0.9	2	1.3	
CV (%)		5.9	1.0	3	0.5	

[1]Yield reported on basis of 60 lb/bu at 12 percent moisture

Table 4. Malheur winter emergence wheat trial planted December 5, 1994; emerged late February 1995; harvested August 4, 1995. Malheur Experiment Station, Oregon State University, Ontario, Oregon, 1995.

Variety	Market class	Yield[1]	Test weight	Plant height	Heading date	Lodging
		bu/ac	lb/bu	inches		%
Yolo	HRS	154.9	61.5	34	May 20	None
Stephens	SWW	151.2	58.5	35	May 29	None
Penawawa	SWS	148.0	61.8	35	May 21	<6
Treasure	SWS	146.4	61.7	36	May 25	<6
Centennial	SWS	139.6	63.0	36	May 21	<6
IDO 448	SWS	138.1	61.7	36	May 24	None
Alpowa	SWS	132.8	62.9	35	May 20	<6
MacVicar	SWW	131.7	57.6	36	May 30	None
Malcolm	SWW	130.2	59.0	35	May 28	None
Meridian	HRW	121.3	60.6	35	Jun 2	<6
Mean		139.4	60.8	35	May 25	
LSD(0.05)		17.8	1.3	2	2	
CV (%)		7.4	1.2	3	1	

[1]Yield reported on basis of 60 lb/bu at 12 percent moisture

Table 5. HybriTech hybrid soft white winter wheat trial (Block 1) planted October 18, 1994, and harvested August 9, 1995, at Ontario, Oregon. Malheur Experiment Station, Oregon State University, Ontario, Oregon, 1995.

Variety	Market class	Yield[1]	Test weight	Plant height	Heading date
		bu/ac	lb/bu	inches	
24.1x172	Hybrid	170.2	59.8	37	May 25
2x69	Hybrid	169.9	60.8	37	May 25
6x3	Hybrid	167.4	60.6	37	May 26
24.1x18.1	Hybrid	166.3	59.8	38	May 24
38x113	Hybrid	164.9	60.2	39	May 26
2x113.1	Hybrid	164.3	60.2	39	May 26
45x69	Hybrid	164.0	60.4	37	May 24
27x920	Hybrid	163.2	61.1	38	May 26
45x68	Hybrid	162.9	61.6	38	May 25
Stephens	Common	161.5	60.8	37	May 23
45x18.1	Hybrid	161.0	60.9	41	May 25
2x844.2	Hybrid	160.7	60.9	38	May 26
2x903	Hybrid	160.4	60.2	40	May 26
2x18	Hybrid	159.9	59.9	40	May 25
6x11	Hybrid	159.9	60.2	38	May 26
27x18.1	Hybrid	159.9	60.9	39	May 26
45x81	Hybrid	158.7	60.5	36	May 27
18x908	Hybrid	157.6	60.3	38	May 24
18x69	Hybrid	157.3	60.1	39	May 23
2x920	Hybrid	157.1	61.0	37	May 26
18x187	Hybrid	156.2	60.9	39	May 24
45x807.1	Hybrid	156.2	61.0	38	May 26
24.1x44.1	Hybrid	155.7	60.2	36	May 26
27x908	Hybrid	155.7	60.9	38	May 26
18x68	Hybrid	155.4	60.7	36	May 24
27x18	Hybrid	155.1	60.3	40	May 24
18x843	Hybrid	154.8	60.7	39	May 24
18x10.1	Hybrid	154.0	61.4	39	May 24
18x838	Hybrid	154.0	60.6	39	May 24
45x75	Hybrid	153.1	60.1	38	May 23
2x842	Hybrid	152.9	60.1	38	May 27
24x804	Hybrid	152.9	59.6	37	May 26
38x4	Hybrid	152.9	60.5	39	May 26
18x858	Hybrid	152.3	60.5	38	May 25
18x867.1	Hybrid	152.3	60.1	34	May 24
45x3	Hybrid	152.0	60.6	40	May 26
18x82.1	Hybrid	151.5	60.5	38	May 23
18x11	Hybrid	150.9	60.6	39	May 24
38x179	Hybrid	150.1	61.2	36	May 25
18x178	Hybrid	149.8	59.8	38	May 24
18x865.1	Hybrid	149.0	60.9	39	May 23
2x62	Hybrid	148.4	60.3	41	May 25
45x179	Hybrid	148.4	61.4	37	May 26
6x18.1	Hybrid	147.5	59.8	39	May 25
18x95	Hybrid	147.3	61.0	39	May 23
18x62.1	Hybrid	142.8	60.0	39	May 24
2x906	Hybrid	142.2	60.3	35	May 26
Madsen	Common	142.0	59.9	37	May 28
45x10.1	Hybrid	141.7	61.0	39	May 26
Gene	Common	140.6	60.2	36	May 23
Mean		155.3	60.5	38	May 25
LSD(0.05)		14.1	1.2	3	1
CV (%)		6.5	1.4	6	1

[1] Yield reported on basis of 60 lb/bu with no correction for moisture.

Table 6. HybriTech hybrid soft white winter wheat trial (Block 2) planted October 18, 1994, and harvested August 9, 1995, at Ontario, Oregon. Malheur Experiment Station, Oregon State University, Ontario, Oregon, 1995.

Variety	Market class	Yield[1]	Test weight	Plant height	Heading date
		bu/ac	lb/bu	inches	
871x113	Hybrid	172.7	60.5	39	May 26
93x113.1	Hybrid	170.5	60.0	39	May 25
45x875.1	Hybrid	169.4	61.6	39	May 25
827.2x62	Hybrid	168.5	60.7	40	May 24
827.2x69	Hybrid	167.7	60.6	37	May 25
827.2x187	Hybrid	167.3	60.9	40	May 26
754x844.1	Hybrid	166.0	61.1	37	May 26
827.2x158	Hybrid	166.0	61.6	38	May 26
62x94	Hybrid	165.7	61.4	38	May 24
62x158	Hybrid	165.7	61.3	39	May 24
871x844.1	Hybrid	164.6	61.0	37	May 26
93x75	Hybrid	164.3	59.8	38	May 24
754x844.2	Hybrid	164.3	61.4	39	May 26
842x95	Hybrid	164.3	60.9	39	May 24
827.2x68	Hybrid	163.8	61.4	37	May 25
62x187	Hybrid	162.9	61.1	41	May 24
62x844.1	Hybrid	162.6	61.1	38	May 24
62.1x69	Hybrid	162.4	60.6	37	May 23
93x18	Hybrid	162.1	60.6	40	May 24
62x875.1	Hybrid	161.2	60.7	39	May 24
827.2x804	Hybrid	161.0	60.2	38	May 27
93x89.1	Hybrid	159.6	61.0	38	May 25
871x68	Hybrid	159.6	61.3	36	May 26
903x113	Hybrid	159.0	60.4	38	May 26
45x884.1	Hybrid	158.2	61.4	37	May 25
93x920	Hybrid	157.3	60.6	37	May 25
62x68	Hybrid	157.1	60.7	39	May 24
842x158	Hybrid	157.1	61.3	37	May 26
827.2x875.1	Hybrid	156.2	61.0	37	May 26
871x833	Hybrid	156.2	60.3	38	May 26
903x920	Hybrid	155.9	61.0	38	May 25
62.1x807	Hybrid	155.7	61.8	41	May 24
754x804	Hybrid	154.8	60.4	38	May 27
62.1x843	Hybrid	154.3	61.3	40	May 25
62.1x867.1	Hybrid	154.3	60.6	39	May 24
842x68	Hybrid	154.0	61.1	38	May 26
903x96.1	Hybrid	153.9	59.8	38	May 28
842x877	Hybrid	153.7	59.8	42	May 25
81x837	Hybrid	153.4	61.1	36	May 24
871x518	Hybrid	153.4	61.2	38	May 26
903x844.1	Hybrid	153.4	60.9	37	May 26
Madsen	Common	152.9	60.0	37	May 27
62x89.1	Hybrid	152.6	61.0	39	May 24
871x62.1	Hybrid	152.3	59.9	40	May 25
93x95	Hybrid	150.3	60.9	39	May 24
871x75	Hybrid	150.3	60.5	37	May 24
Stephens	Common	149.8	60.6	37	May 24
81x885R	Hybrid	149.5	61.0	39	May 25
81x70R	Hybrid	148.7	62.8	38	May 24
Gene	Common	147.3	60.1	34	May 23
Mean		158.9	60.8	38	May 25
LSD(0.05)		11.1	0.7	2	1
CV (%)		5.0	1.0	4	1

[1]Yield reported on basis of 60 lb/bu with no correction for moisture.

Table 7. OSU statewide spring cereal trial planted March 24, 1995, and harvested August 8, 1995, at Ontario, Oregon. Malheur Experiment Station, Oregon State University, Ontario, Oregon, 1995.

Variety	Market class	Yield[1]	Test weight	Protein	Plant height	Heading date
		bu/ac	lb/bu	%	inches	
Wawawai	SW	129.3	64.4	10.0	38	Jun 2
Penawawa	SW	115.6	63.2	10.8	34	Jun 3
Alpowa	SW	113.3	64.1	10.5	34	Jun 2
ID 471	SW	111.3	63.8	9.9	33	Jun 1
Yolo	HR	111.3	63.6	10.3	32	Jun 3
Treasure	SW	111.2	62.2	9.8	33	Jun 4
ID 377S	HW	109.5	64.1	11.3	37	Jun 3
ID 448	SW	108.3	60.9	9.5	34	Jun 5
WPB Vanna	SW	108.3	62.9	10.1	34	Jun 3
Centennial	SW	107.9	64.0	10.2	33	May 31
Klasic	HW	107.9	63.6	12.6	25	May 31
Calorwa	Club	105.2	61.4	10.0	30	Jun 2
WPB 936R	HR	102.2	64.3	12.4	33	May 31
Juan	Triticale	101.3	54.7	10.4	41	Jun 3
Yecora Rojo	HR	101.1	63.5	13.3	24	May 31
Anza	HR	99.4	63.3	10.5	32	Jun 3
Owens	SW	98.1	63.2	10.5	35	Jun 1
Dirkwin	SW	91.2	58.6	10.2	33	Jun 4
WPB 926R	HR	90.7	64.1	13.4	33	May 30
Victoria	Triticale	86.0	52.9	10.3	36	Jun 3
Mean		105.5	62.1	10.8	33	Jun 2
LSD(0.05)		11.8	1.0	0.6	2	2
CV (%)		6.8	1.0	3.6	3	1

[1]Yield reported on basis of 60 lb/bu at 10 percent moisture.

Table 8. OSU statewide spring barley trial planted March 24, 1995, and harvested August 8, 1995, at Ontario, Oregon. Malheur Experiment Station, Oregon State University, Ontario, Oregon, 1995.

Variety	Market class	Yield[1]	Test weight	Protein	Plant height	Heading date	Lodging
		lb/ac	lb/bu	%	inches		%
Germain's 2319	6RF	6389	52.2	11.8	24	May 28	None
Colter	6RF	6250	52.3	9.8	33	May 31	None
BSR 41	2RF/M	6047	52.9	11.6	29	May 27	>80
Columbia	6RF	5943	51.2	11.2	29	Jun 4	None
Steptoe	6RF	5752	52.0	10.3	32	Jun 1	None
Baronesse	2RF	5608	55.0	11.3	29	Jun 2	>20 <30
Maranna	6RF	5425	52.2	11.6	25	Jun 4	None
WPB-BZ489-74	6R hulless	5380	63.4	13.4	28	Jun 3	>20 <30
Payette	6RF	5298	53.4	11.4	29	Jun 4	None
Crest	2RM	5290	51.5	10.9	29	Jun 2	>70 <80
BSR 45	2RF/M	5207	53.9	12.1	32	May 28	<10
78Ab10274	2RF/M	5187	54.1	11.1	31	Jun 2	>80
Crystal	2RM	5165	54.3	11.4	32	Jun 3	>30 <40
Harrington	2RM	5130	54.1	11.1	31	Jun 3	>30 <40
WPB-Sissy	6RF	4674	54.2	11.8	28	Jun 2	None
Russell	6RM	4572	55.5	11.0	34	May 29	None
Mean		5457	53.9	11.4	30	Jun 1	
LSD(0.05)		1246	1.0	0.6	2	2	
CV (%)		12	1.1	3.4	4	1	

[1]Yield reported on basis of 10 percent moisture.