

2001 MARYLAND WHEAT & BARLEY VARIETY PERFORMANCE TRIALS

Wheat and barley variety trials were conducted by the Maryland Agricultural Experiment Station and the Department of Natural Resource Science and Landscape Architecture at five locations across Maryland in the 2000/2001 season: (1) Lower Eastern Shore Research and Education Center's (REC) Poplar Hill Facility near Quantico in Wicomico County; (2) Wye REC at Queenstown in Queen Anne's County; (3) Central Maryland REC's Beltsville Facility in Prince George's County; (4) Central Maryland REC's Clarksville Facility in Howard County; and (5) Western Maryland REC's Keedysville Facility in Washington County.

Entries that are generally available to Maryland producers and that are commonly grown in the state are selected each year for the tests. In addition, new varieties, commercial brands, and advanced breeding lines are included in the tests to compare their performance to that of known varieties. Forty-four wheat entries and nineteen barley entries made up the 2001 tests. One triticale entry (a wheat/rye cross) was included in the wheat trials. One malting barley entry was also included in the barley trials. The barley line MD881007-6 was released as Catchpenny. Please see Table 2 for a list of seed treatments applied to each entry. The following characteristics were evaluated in these trials: yield (adjusted to 13.5% moisture), test weight, moisture content at harvest, heading date, lodging, plant height, and disease reaction. Lodging was based on a score of 0 - 10 where 0=no lodging and 10=flat. Heading date was determined when approximately 50% of the small grain heads had cleared the boot.

Wheat and barley entries in the respective tests were planted (conventional tillage) at all locations in six-row plots 18 feet in length and later trimmed to 14 feet in randomized blocks with three replications per entry. Both the wheat and barley were planted in 6 inch rows. Wheat was seeded at a rate of 18 seeds per foot of row, which represents a population of approximately 1.3 million plants per acre (or 30 plants/sq. ft.) based on 90% germination. Seeding rate for barley was 96 lb/acre. Plots were mechanically harvested using a small plot combine (Wintersteiger Seedmech Nurserymaster Elite). Plot weight, test weight, and moisture content data were obtained with a HarvestMaster HM-400 attached to the plot combine. Other location-specific management factors are summarized in Table 1 on page 3.

PRODUCTION YEAR

Planting conditions were ideal at all five locations throughout October of 2000. There was no winter kill noted in any of our plots. Spring green-up occurred later than usual and growth was slow until April which was very warm and dry. Powdery mildew was mostly absent from our plots and was only noted at Keedysville. Welcome and needed rains came back to Maryland in late May in time to help with barley grain fill and wheat head development.

RESULTS

Wheat and barley performance data are summarized in the tables which follow. There are tables for individual test locations for both small grain crops as well as regional and statewide summary tables. A three-year summary table for selected entries of each crop is also included (see Index to Tables which follows).

Data were statistically analyzed to determine if differences existed between varieties at each location. At the bottom of each table a mean, a LSD, and a CV are reported. Least significant differences (LSD) were calculated at the 5 % probability level. "NS" in the tables indicates that no statistically significant differences were observed for that character at the 5% probability level. The coefficient of variation (CV) is a measure of field variability in relation to the mean. CV's below 15% are an indication that the precision of the test is good in distinguishing differences between varieties. A CV above 15% indicates other factors than varietal differences are causing variability. These factors can include fertility management, different soil types within the study, low spots in the field, etc.

It is important to note that although small plots tend to exaggerate yields, this increase is consistent for each variety. As an aid to assessing the performance of individual varieties in the test, a relative yield value was calculated. Tables 4 and 12 summarize the relative yields of wheat and barley, respectively, in the 2001 test by expressing them as the percent of the mean yield of all varieties at each location. Therefore, a variety with a relative yield that is consistently greater than 100 is a variety that consistently yields higher than the mean yield of all of the varieties at that location. In these tables, the relative yields of those varieties with an asterisk are not statistically different from the highest yielding variety at that location.

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ACKNOWLEDGMENTS

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The cooperation and support offered by commercial seed companies, state crop improvement associations, and several University Experiment Stations in supplying seed and information about varieties are greatly acknowledged. Finally, a special note of appreciation is also extended to the County Extension Educators who disseminate this information.

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The information presented here is also available on the World Wide Web at <http://www.agnr.umd.edu/users/nrsl/crops/wheat/>

Table 1. 2000 Wheat and Barley Variety Test Plot Information.

1. Lower Eastern Shore Research and Education Center (LESREC) - Poplar Hill Facility
Wicomico County - Quantico, MD

Planting dates: 10/18/00 (wheat and barley). Harvest dates: 6/21/01(wheat); 6/12/01 (barley)
 Soil Type: Mattapex silt loam. Previous crop: corn. Fertilizer: 30-20-20 (Fall) ; Spring: 75-40-80 (for both crops).
 Herbicide: Harmony Extra 0.5 oz/A.

Farm Staff: Ron Mulford, Dave Sockriter, Craig Anderson, and Andy Anderson.

2. Wye Research and Education Center (WREC)
Queen Anne's County - Queenstown, MD

Planting dates: 10/11/00 (wheat); 10/13/00 (barley). Harvest dates: 6/25/00 (wheat); 6/13/00 (barley)
 Soil Type: Matapeake silt loam. Previous crop: corn. Fertilizer:32-16-16(Fall) for both crops; Spring: 80# of 30% solution
 (wheat); 56# N/A (barley)
 Herbicide: Harmony Extra 0.5 oz/A

Farm Staff: Lew Smith, Mark Sultenfuss, and Reese Stafford

3. Central Maryland Research and Education Center (CMREC) - Beltsville Facility (Hayden Farm)
Prince George's County - Beltsville, MD

Planting dates: 10/9/99 (wheat); 10/10/00 (barley). Harvest dates: 6/28/01 (wheat); 6/18/01 (barley)
 Soil Type: Sassafra sandy loam. Previous crops: soybeans (wheat); vegetables (barley).
 Fertilizer: Fall: Wheat = 225# of 16-0-90
 Spring: Wheat = 20# N of 30-0-0 UAN followed by another 40# N of 30-0-0 UAN

Herbicide: Harmony Extra 0.5 oz/A with second Spring N application

Farm Staff: Kevin Conover, Tracy Runner, Russell Griffith, and Mike Heyser

4. Central Maryland Research and Education Center (CMREC) - Clarksville Facility
Howard County - Clarksville, MD

Planting dates: 10/6/00 (wheat and barley). Harvest dates: 6/30/01 (wheat); 6/20/01 (barley)
 Soil type: Wheat = Chester silt loam; Previous crop: corn
 Fertilizer: Fall: None. Spring: Wheat = 60# N (18.5 gal. of 30% UAN); Barley = 40# N (12.5 gal. 30% UAN) on 3/12/01
 Herbicide: Harmony Extra 0.3 oz/A on 3/12/01, and 0.3 oz/A on 4/19/01

Farm Staff: Dave Justice, Tim Ridgley Sr.

5. Western Maryland Research and Education Center (WREC) - Keedysville Facility
Washington County - Keedysville, MD

Planting dates: 10/2/00 (wheat and barley). Harvest dates: 6/29/00 (wheat); 6/19/01 (barley).
 Soil Type: Hagerstown silt loam (silty variant); Previous crop: corn
 Fertilizer: Fall: none. Spring: Wheat = 45# N as Urea; Barley = 40# N as Urea
 Herbicide: Harmony Extra 0.5 oz/A

Farm Staff: Tim Ellis, Dave Wyand, and Debbie Thompson

Table 2. Sources of Winter Wheat, Triticale, and Barley Entries Tested in Maryland, 2000.

Supplier/Address/Local Rep.	Brand	Varieties and Seed Treatments*
AgriPro Wheat; 6025 W. 300 S., Lafayette, IN 47905; 1(800)858-4603	AgriPro	Patton (RT)
Agway Milford Fertilizer Company 308 Ne Front St., Milford, DE 19963 Bruce Roberts	APK	APK30W, APK36W (None)
Featherstone Seed, Inc.; 13941 Genito Road, Amelia, VA 23002; Juan Whittington (804)561-3754	Feather- stone	520 (B)
Hoffman Seeds, Inc.; 144 Main Street, Landisville, PA 17538; Jim Popham 1(800)776-7929	Hoffman	Century II (DXL)
Novartis Seeds, Inc.; P.O. Box 340, Hartsville, SC 29551	NK	Coker 9835 (DXL), Coker 9663 (DXL), Coker 9704 (DXL), BL940812 (DXL), BL940582 (DXL)
Pioneer Hi-Bred Intl., Inc.; P.O. Box 280, Mount Joy, PA 17552	Pioneer	2643 (D), 25R37 (D), 26R24 (D)
Resource Seeds, Inc.; 2355 Rice Pike, Union, KY 41091 Local Rep. = Southern States Coop.	Trical	498 (RT)
Southern States Coop.; P.O. Box 26234, Richmond, VA 23260; Jerry Hevner (302)629-7991	FFR	518 (RT), 522 (BT), 520 (RT), 550 (RT), 555B (BT), 555BG (BG) 566 (RT), 535R (RT), 535G (G)
UniSouth Genetics, Inc.; 2640-C Nolensville Road, Nashville, TN 37211; Dale Morris (410)841-5960	USG	3209 (RT), 3408 (RT)
Clemson University, 277 Poole Ag. Center, Box 340359, Clemson, SC 29634	-----	SC 960057(RT) SC969546 (RT)
Florida Agric. Exp. Stn.	-----	FL 304 (V)
University of Georgia, GA Station, 1109 Experiment St., Griffin, GA 30223	-----	91426 E39 (D), GA 901146E15 (D)
Maryland Agric. Exp. Stn.	-----	Catocin (RA), MD Breeding Lines (RT)
Virginia Tech and Virginia Crop Imp. Assoc., 9142 Atlee Station Road, Mechanicsville, VA 23111	-----	Madison (RT), Jackson (RT), Pocahontas (RT), Roane (RT), Sisson (RT), VA Breeding Lines (RT)
Kentucky Agric. Exp. Stn.	-----	Barsoy (RT)
Maryland Agric. Exp. Stn.	-----	Catchpenny (RT), MD Breeding Lines (RT)
Pennsylvania Agric. Exp. Stn.	-----	Pennco (RT), Pennbar 66 (RT), PA 8649-95 (RT)
Virginia Tech and Virginia Crop Imp. Assoc., 9142 Atlee Station Road, Mechanicsville, VA 23111	-----	Nomini (RT), Starling (RT), Callao (RT), Pamunkey (RT), VA Breeding Lines (RT)
USDA, ARS; Aberdeen, ID	-----	Ab 1347 (Malt) (RT)

*Seed treatment codes in parentheses after each entry are as follows: **RT** = Raxil/Thiram; **RA** = Raxil/Apron, **RAL** = Raxil/Allegiance; **B** = Baytan; **BT** = Baytan/Thiram; **BG** = Baytan/GaUCHO; **G** = GaUCHO; **D** = Dividend; **DXL** = Dividend/Apron; **V** = Vitavax.

Table 3. 2001 Maryland State Wheat Variety Performance Trials Averaged Over 5 Locations in Maryland - **Quantico, Queenstown, Beltsville, Clarksville, and Keedysville.**

Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date	Height (in)	Lodging (0-10)	Proj. P. Mildew Resistance²
USG 3209	87.9	57.2	May 10	31.2	1.2	R
Pioneer 25R37	87.3	57.8	May 11	32.2	0.6	R
SS-535G	86.5	58.1	May 10	32.7	1.8	R-MR
Century II	85.8	58.0	May 11	33.1	1.3	MR-MS
Trical 498*	85.6	49.8	May 4	41.1	1.1	R
Pioneer 26R24	85.5	57.3	May 10	34.6	2.0	MR
Sisson	85.2	57.7	May 9	31.9	1.3	R
VA 98W-593	84.1	59.0	May 11	32.3	1.1	R
SS-550	84.0	57.7	May 10	32.3	1.0	R
SS-555BG	83.6	56.6	May 12	34.3	0.7	MS-S
901146 E15	83.5	57.0	May 9	31.3	0.6	MR-MS
SS-522	83.3	58.8	May 9	34.5	2.8	MS
Agripro Patton	83.2	57.4	May 10	35.3	1.3	MR-MS
Featherstone 520	83.2	57.7	May 11	34.0	2.7	MR-MS
Pocahontas	82.9	57.4	May 9	32.6	1.1	MR-MS
MD 11-52	82.8	57.8	May 9	29.9	1.1	R
SS-520	82.6	56.5	May 9	34.3	1.1	MR
Roane	82.5	58.7	May 12	32.5	1.7	MR
NK Coker 9663	82.3	57.5	May 11	38.0	2.1	MR-MS
SS-535R	82.3	58.2	May 11	32.6	2.0	R-MR
NK Coker 9835	82.0	56.8	May 12	30.6	1.4	MR-MS
NK BL 940812	81.4	58.2	May 12	32.2	1.0	MR-MS
Pioneer 2643	81.2	58.2	May 10	28.9	0.1	MR
VA 97W-206	80.9	56.7	May 12	32.6	0.7	R
SS-518	80.6	55.9	May 9	31.4	2.8	R-MR
MD 71-19	79.7	58.1	May 10	31.1	1.4	MR
91426 E39	79.4	58.7	May 10	32.0	1.9	R
APK30W	79.3	58.9	May 10	35.6	0.8	MR-MS
SS-555B	78.9	57.0	May 13	33.5	1.0	MS-S
NK Coker 9704	78.8	58.6	May 9	32.5	1.7	MR-MS
SC 960057	78.3	55.8	May 10	35.9	3.8	MR-MS
Jackson	78.3	58.0	May 11	34.0	1.7	MR-MS
USG 3408	76.9	57.7	May 11	33.5	0.6	MR
APK36W	76.8	57.8	May 11	36.7	1.7	MS
Madison	76.7	57.3	May 10	34.9	1.4	MR-MS
SS-566	76.6	56.8	May 13	36.1	1.3	MR
VA 96W-403WS	76.6	57.3	May 13	34.9	1.4	R-MR
92 Pan# 26	75.8	57.3	May 13	31.4	1.1	MR-MS
8th Fawwon# 76	75.7	58.4	May 12	34.1	1.6	MR
Catocin	75.6	57.8	May 12	35.6	2.2	MS
SC 952746	75.2	57.4	May 10	40.7	3.6	R
92 PIN# 109	72.4	57.8	May 11	33.2	1.1	MR
NK BL 940582	71.8	57.1	May 10	35.7	1.2	MS-S
Florida 304	67.3	57.9	May 12	35.3	1.4	S
State-wide Means	80.4	57.5	May 11	33.7	1.5	-
LSD (0.05)	9.7	1.2	3 days	2.2	0.9	-
CV (%)	16.8	2.9	3.7	9.0	88	-

¹ Projected Resistance attributed to genetics of the variety. Powdery mildew is also affected by seed treatment. R=Resistant, MR=Moderately Resistant, MS= Moderately Susceptible, S= Susceptible. Disease ratings provided by Dr. Arvydas Grybauskas and Sydney Wallace, Dept. of Nat. Res. Sci., UMD.

* This is a wheat/rye cross or triticale, not a wheat variety. Its standard test weight is similar to barley (48 lbs/bu).

Table 4. Relative yield of wheat entries compared to the mean yield of all entries at each location and throughout the state in 2001.

Entry	State	Quantico	Queenstown	Beltsville	Clarksville	Keedysville
-----Relative Yield (%)-----						
USG 3209	109*	114*	103*	108*	106*	113*
Pioneer 25R37	109*	102	106*	117*	106*	112*
SS-535G	108*	104	102*	113*	109*	110*
Century II	107*	105	103*	122*	98	110*
Trical 498	106*	119*	103*	103*	100	107*
Pioneer 26R24	106*	105	105*	110*	115*	99
Sisson	106*	96	100*	109*	105*	112*
VA 98W-593	105*	111*	107*	102*	95	105*
SS-550	105*	107*	99*	100	108*	107*
SS-555BG	104*	102	100*	106*	114*	100
901146 E15	104*	100	102*	94	111*	109*
SS-522	104*	106*	101*	103*	98	109*
Agripro Patton	103*	101	103*	109*	100	105*
Featherstone 520	103*	104	102*	102*	107*	102*
Pocahontas	103*	105*	104*	114*	95	100
MD 11-52	103*	104	94	93	108*	112*
SS-520	103*	95	99*	107*	98	112*
Roane	103*	114*	108*	98	97	95
NK Coker 9663	102*	100	106*	102*	92	101
SS-535R	102*	108*	99*	108*	104*	95
NK Coker 9835	102*	108*	102*	111*	94	98
NK BL 940812	101*	93	106*	111*	103*	96
Pioneer 2643	101*	97	96	103*	107*	103*
VA 97W-206	101*	103	102*	93	99	104*
SS-518	100*	98	96	104*	95	106*
MD 71-19	99*	104	99*	99	105*	90
91426 E39	99*	87	103*	95	94	104*
APK30W	99*	95	100*	95	95	95
SS-555B	98*	90	103*	102*	106*	95
NK Coker 9704	98*	101	99*	89	102*	96
SC 960057	97*	98	104*	99	92	95
Jackson	97*	91	100*	106*	94	97
USG 3408	96	99	104*	90	86	107*
APK36W	96	98	92	99	95	95
Madison	95	96	96	98	98	90
SS-566	95	95	92	92	103*	94
VA 96W-403WS	95	96	98*	91	98	93
92 Pan# 26	94	90	96	97	102*	88
8th Fawwon# 76	94	100	97*	79	102*	96
Catoctin	94	91	102*	91	96	90
SC 952746	93	99	96	84	86	98
92 PIN# 109	90	89	98*	87	87	87
NK BL 940582	89	94	91	83	100	79
Florida 304	83	89	83	83	86	78

Relative yields are expressed as a percentage of the mean yield of all entries at each location. *Indicates that the relative yield of an entry is not significantly different ($LSD_{0.05}$) from the highest yielding entry at that location.

Table 5. Two-year and three-year averages of grain yield and test weight of wheat entries in Maryland, 1999-2001.

Entry	Two-year average		Three-year average	
	Yield (bu/A)	Test Weight (lbs/bu)	Yield (bu/A)	Test Weight (lbs/bu)
USG 3209	80.6	56.8	81.5	56.2
Sisson	80.6	57.3	-	-
Trical 498*	78.4	48.2	76.9	47.8
GA901146E15	78.3	55.8	-	-
SS550	78.3	57.7	-	-
MD11-52	77.2	57.4	-	-
Century II	77.1	57.7	77.8	-
SS535	76.3	58.0	-	-
VA96W-158	76.2	56.1	-	-
Agripro Patton	75.8	56.5	73.9	55.4
Coker 9835	75.8	56.3	75.4	55.6
Pioneer 2643	75.4	57.2	76.0	56.4
Roane	75.4	58.0	75.4	57.9
Featherstone 520	75.4	57.7	74.7	57.1
SS FFR-518W	74.4	55.7	75.2	55.1
MD 71-19	74.1	57.3	73.8	56.7
Pocahontas	74.1	57.0	75.6	56.0
SS FFR-522W	74.1	58.1	73.0	57.1
Coker 9704	73.7	58.3	73.1	57.6
Jackson	73.3	57.5	74.4	56.3
Coker 9663	73.2	55.4	71.6	55.5
SS FFR-555W	70.6	56.1	67.6	55.0
USG 3408	70.5	57.3	72.4	57.2
SS FFR-566W	70.3	56.7	68.6	57.2
Madison	70.0	56.4	71.4	55.6
Florida 304	61.1	57.0	-	-

Table 6. 2001 Maryland Sate Wheat Variety Performance Trials at the Poplar Hill Facility - **Quantico, MD.**

Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date	Height (in)	Lodging (0-10)
Trical 498	90.7	51.5	April 27	44.7	1.0
Roane	87.2	60.0	May 8	32.3	1.0
USG 3209	87.0	57.8	May 6	33.3	0.7
VA 98W-593	84.6	59.7	May 6	32.3	0.3
SS-535R	83.0	59.2	May 6	33.0	1.0
NK Coker 9835	82.9	57.8	May 8	31.3	0.0
SS-550	82.0	58.2	May 4	33.3	0.7
SS-522	80.8	58.0	May 3	36.7	1.0
Century II	80.6	59.0	May 6	33.7	0.7
Pocahontas	80.5	57.8	May 4	33.3	0.7
Pioneer 26R24	79.9	58.1	May 5	35.3	0.7
SS-535G	79.9	59.9	May 5	33.0	0.3
MD 71-19	79.4	59.0	May 4	31.7	1.0
MD 11-52	79.3	58.4	May 3	31.0	0.3
Featherstone 520	79.3	58.7	May 5	35.0	1.3
VA 97W-206	78.7	57.4	May 7	32.0	0.3
Pioneer 25R37	78.0	57.8	May 5	32.3	0.3
SS-555BG	77.9	56.4	May 8	35.0	0.7
NK Coker 9704	77.3	58.7	May 3	34.0	0.7
Agripro Patton	77.0	57.4	May 5	37.0	1.0
NK Coker 9663	76.4	56.9	May 7	40.0	1.3
8th Fawwon# 76	76.1	59.1	May 7	35.3	1.3
901146 E15	76.1	57.7	May 4	32.3	0.7
SC 952746	75.7	57.9	May 5	41.7	2.0
USG 3408	75.6	58.6	May 6	34.3	0.3
SC 960057	74.9	55.9	May 7	38.0	1.0
SS-518	74.9	55.9	May 3	33.3	1.0
APK36W	74.9	57.4	May 5	38.0	1.0
Pioneer 2643	74.2	59.3	May 4	29.7	0.0
Madison	73.6	58.0	May 6	36.0	1.0
Sisson	73.5	58.4	May 3	34.0	0.7
VA 96W-403WS	73.4	57.1	May 8	35.3	0.7
SS-520	72.9	56.3	May 4	34.7	1.0
SS-566	72.8	56.6	May 9	37.0	0.7
APK30W	72.8	59.4	May 6	37.3	0.7
NK BL 940582	71.6	58.0	May 5	39.0	1.0
NK BL 940812	71.1	58.2	May 7	33.3	1.0
Jackson	69.4	57.8	May 6	35.3	1.0
Catocin	69.2	58.6	May 7	36.7	2.7
SS-555B	69.0	56.7	May 8	33.0	0.3
92 Pan# 26	68.5	56.7	May 7	32.3	1.0
92 PIN# 109	68.2	57.6	May 6	34.7	1.0
Florida 304	68.0	58.4	May 7	37.7	1.0
91426 E39	66.4	58.6	May 5	32.0	1.0
Location Means	76.4	57.9	May 5	34.8	0.8
State-wide Means	80.4	57.5	May 11	33.7	1.5
LSD (0.05)	10.8	1.65	1 day	2.0	1.0
CV (%)	8.4	1.7	0.6	3.6	75.0

* This is a wheat/rye cross or triticale, not a wheat variety. Its standard test weight is similar to barley (48 lbs/bu).

Table 7. 2001 Maryland Sate Wheat Variety Performance Trials at the Wye Facility - **Queenstown, MD.**

Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date	Height (in)	Lodging (0-10)
Roane	97.5	58.8	May 9	35.0	0.0
VA 98W-593	96.5	59.6	May 9	34.0	0.7
NK Coker 9663	95.8	57.7	May 8	42.0	1.0
Pioneer 25R37	95.7	58.6	May 8	34.0	0.7
NK BL 940812	95.0	59.0	May 9	34.3	1.0
Pioneer 26R24	94.8	57.9	May 7	35.7	0.7
SC 960057	93.6	55.9	May 7	39.3	2.3
Pocahontas	93.5	57.4	May 7	36.0	1.0
USG 3408	93.2	59.3	May 8	37.7	0.0
91426 E39	92.9	59.1	May 7	34.0	0.7
Agripro Patton	92.7	57.6	May 8	37.7	0.7
Trical 498	92.6	50.4	May 2	41.7	1.3
SS-555B	92.6	57.4	May 10	37.7	1.0
USG 3209	92.4	57.3	May 8	33.3	0.0
Century II	92.3	58.3	May 9	35.7	1.7
Catoctin	92.1	58.4	May 9	38.0	1.7
NK Coker 9835	91.9	57.3	May 10	33.0	1.0
VA 97W-206	91.9	56.6	May 9	33.3	0.3
SS-535G	91.9	58.5	May 8	34.3	0.3
Featherstone 520	91.8	59.5	May 8	36.3	2.0
901146 E15	91.6	56.9	May 7	34.7	0.0
SS-522	90.8	59.8	May 7	36.7	2.0
SS-555BG	90.3	56.8	May 9	37.7	0.0
Jackson	90.2	57.9	May 8	35.7	0.3
Sisson	90.1	58.2	May 7	33.3	0.3
APK30W	89.8	58.7	May 7	37.7	0.3
NK Coker 9704	89.5	58.8	May 7	34.0	0.7
SS-535R	89.5	58.7	May 9	34.7	1.7
MD 71-19	89.3	57.8	May 8	32.7	1.0
SS550	89.2	57.7	May 8	34.7	0.7
SS520	88.8	55.9	May 7	37.7	0.7
92 PIN# 109	88.1	58.3	May 8	35.0	0.7
VA 96W-403WS	88.0	57.8	May 10	36.0	1.0
8th Fawwon# 76	87.1	59.0	May 9	36.3	0.3
SC 952746	86.7	57.4	May 8	43.7	2.3
92 Pan# 26	86.6	57.4	May 10	33.7	0.7
Madison	86.5	57.0	May 8	37.3	0.3
Pioneer 2643	86.2	58.1	May 7	30.3	0.3
SS-518	86.1	55.4	May 6	34.3	0.7
MD 11-52	84.5	57.8	May 6	31.7	0.0
SS-566	83.0	57.8	May 10	37.7	1.7
APK36W	82.5	57.6	May 8	37.7	0.7
NK BL 940582	81.7	57.3	May 7	37.7	1.0
Florida 304	74.3	58.5	May 9	36.3	0.7
Location Means	90.0	57.8	May 8	35.9	0.8
State-wide Means	80.4	57.5	May 11	33.7	1.5
LSD (0.05)	10.8	1.65	1 day	2.0	1.0
CV (%)	8.4	1.7	0.6	3.6	75.0

* This is a wheat/rye cross or triticale, not a wheat variety. Its standard test weight is similar to barley (48 lbs/bu).

Table 8. 2001 Maryland Sate Wheat Variety Performance Trials at the Hayden Farm - **Beltsville, MD.**

Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date	Height (in)
Century II	74.8	55.0	May 7	33.0
Pioneer 25R37	72.2	56.2	May 8	32.0
Pocahontas	70.0	56.0	May 6	32.7
SS-535G	69.8	54.7	May 7	30.7
NK BL 940812	68.1	57.2	May 9	31.0
NK Coker 9835	68.0	54.7	May 9	30.0
Pioneer 26R24	67.9	54.2	May 6	34.0
Sisson	66.9	56.3	May 5	31.7
Agripro Patton	66.8	54.6	May 7	35.0
SS-535R	66.4	56.1	May 8	32.0
USG 3209	66.4	57.2	May 7	29.7
SS-520	65.5	55.2	May 6	32.7
Jackson	65.3	55.9	May 8	34.0
SS-555BG	65.2	54.6	May 9	32.0
SS-518	63.8	52.8	May 6	30.7
Trical 498	63.6	46.6	May 4	41.3
SS-522	63.6	56.8	May 6	32.7
Pioneer 2643	63.3	54.6	May 7	29.3
Featherstone 520	63.0	55.0	May 6	33.3
SS-555B	63.0	55.8	May 10	32.0
VA 98W-593	63.0	57.8	May 6	33.0
NK Coker 9663	62.6	55.3	May 7	36.3
SS-550	61.6	56.3	May 6	31.3
MD 71-19	60.7	55.2	May 6	29.7
SC 960057	60.7	53.2	May 6	34.0
APK36W	60.6	55.6	May 7	35.7
Madison	60.4	54.8	May 7	34.3
Roane	60.0	57.2	May 7	30.3
92 Pan# 26	59.7	54.0	May 10	29.3
91426 E39	58.7	56.1	May 6	31.0
APK30W	58.3	56.5	May 7	35.0
901146 E15	58.1	53.6	May 6	30.0
MD 11-52	57.5	55.1	May 6	28.0
VA 97W-206	57.0	55.3	May 8	31.0
SS-566	56.3	56.4	May 9	32.7
Catoctin	56.0	54.1	May 7	34.3
VA 96W-403WS	55.9	55.3	May 10	33.7
USG 3408	55.3	54.3	May 7	32.7
NK Coker 9704	54.7	56.5	May 5	31.7
92 PIN# 109	53.2	56.1	May 7	31.0
SC 952746	51.6	56.1	May 6	39.3
Florida 304	51.3	54.4	May 9	32.3
NK BL 940582	51.2	54.5	May 8	34.7
8th Fawwon# 76	48.9	57.6	May 10	31.7
Location Means	61.5	55.2	May 7	32.6
State-wide Means	80.4	57.5	May 11	33.7
LSD(0.05)	12.6	2.0	2 days	2.5
CV (%)	12.7	2.2	0.8	4.8

* This is a wheat/rye cross or triticale, not a wheat variety. Its standard test weight is similar to barley (48 lbs/bu).

Table 9. 2001 Maryland Sate Wheat Variety Performance Trials at the Clarksville Facility - **Clarksville, MD.**

Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date	Height (in)
Pioneer 26R24	91.7	58.1	May 18	30.7
SS-555BG	90.8	57.2	May 18	30.7
901146 E15	88.4	58.5	May 15	26.7
SS-535G	86.9	57.6	May 18	31.3
MD 11-52	86.4	58.6	May 16	26.0
SS-550	86.0	57.4	May 18	29.0
Featherstone 520	85.1	56.2	May 18	30.3
Pioneer 2643	85.0	59.0	May 18	24.0
Pioneer 25R37	84.7	59.0	May 18	27.0
USG 3209	84.6	57.1	May 18	26.3
SS-555B	84.5	57.9	May 19	29.7
MD 71-19	84.0	58.1	May 17	28.0
Sisson	83.7	56.8	May 18	26.7
SS-535R	82.7	57.7	May 18	29.0
NK BL 940812	82.4	58.9	May 18	27.0
SS-566	82.2	57.2	May 19	33.3
NK Coker 9704	81.7	57.8	May 16	27.3
8th Fawwon# 76	81.3	58.0	May 19	31.0
92 Pan# 26	81.2	58.6	May 19	27.3
Agripro Patton	80.2	58.3	May 17	28.3
NK BL 940582	79.9	56.9	May 17	29.3
Trical 498	79.7	49.4	May 11	35.7
VA 97W-206	78.6	56.9	May 19	30.0
SS-522	78.1	58.9	May 15	31.0
Century II	78.0	57.9	May 18	27.7
Madison	78.0	57.3	May 18	30.0
VA 96W-403WS	77.9	57.4	May 19	32.7
SS-520	77.9	56.5	May 17	30.7
Roane	77.8	59.4	May 19	28.3
Catoctin	76.4	58.6	May 18	31.7
APK36W	76.1	58.5	May 17	33.7
Pocahontas	76.1	56.2	May 16	26.3
VA 98W-593	75.8	59.3	May 18	28.3
APK30W	75.7	58.7	May 16	29.7
SS-518	75.6	57.2	May 16	25.3
Jackson	74.9	58.9	May 18	29.3
91426 E39	74.8	59.0	May 16	27.0
NK Coker 9835	74.8	56.4	May 19	26.3
NK Coker 9663	73.6	58.4	May 18	32.7
SC 960057	73.1	56.6	May 17	30.3
92 PIN# 109	69.8	57.1	May 18	28.7
Florida 304	68.8	58.7	May 19	31.3
USG 3408	68.3	56.9	May 18	28.0
SC 952746	68.3	55.8	May 18	35.7
Location Means	79.8	57.6	May 18	29.3
State-wide Means	80.4	57.5	May 11	33.7
LSD (0.05)	10.7	2.2	1 day	3.5
CV (%)	8.3	2.4	0.5	7.4

* This is a wheat/rye cross or triticale, not a wheat variety. Its standard test weight is similar to barley (48 lbs/bu).

Table 10. 2001 Maryland Sate Wheat Variety Performance Trials at the Keedysville Facility - **Keedysville, MD.**

Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date	Height (in)	Lodging (0-10)
USG 3209	107.1	56.6	May 16	33.3	3.0
MD 11-52	106.3	59.1	May 14	33.0	3.0
Pioneer 25R37	106.3	57.7	May 15	35.7	0.7
Sisson	106.2	58.9	May 12	33.7	3.0
SS-520	105.5	58.6	May 13	36.0	1.7
SS-535G	104.3	59.7	May 14	34.3	4.7
Century II	103.6	59.6	May 14	35.3	1.7
901146 E15	103.5	58.2	May 12	33.0	1.0
SS-522	103.4	60.7	May 13	35.3	5.3
SS-550	101.7	58.9	May 13	33.0	1.7
Trical 498	101.7	51.5	May 8	42.0	1.0
USG 3408	101.1	60.5	May 14	35.2	1.4
SS-518	100.1	58.6	May 12	33.3	6.7
Agripro Patton	99.5	59.3	May 14	38.3	2.3
VA 98W-593	99.3	59.2	May 14	34.0	2.3
VA 97W-206	98.5	57.6	May 18	36.7	1.3
91426 E39	98.4	60.3	May 13	36.0	4.0
Pioneer 2643	97.6	60.3	May 14	31.3	0.0
Featherstone 520	96.7	59.2	May 15	35.0	4.7
NK Coker 9663	95.7	58.9	May 14	39.0	4.0
Pocahontas	94.9	59.6	May 13	34.7	1.7
SS-555BG	94.2	58.3	May 18	36.3	1.3
Pioneer 26R24	93.6	58.3	May 14	37.3	4.7
NK Coker 9835	92.7	57.8	May 16	32.3	3.3
SC 952746	92.4	60.0	May 14	43.3	6.3
Jackson	91.9	59.4	May 15	35.7	3.7
8th Fawwon# 76	91.1	58.3	May 17	36.3	3.0
NK Coker 9704	90.8	60.9	May 14	35.7	3.7
NK BL 940812	90.8	57.9	May 16	35.3	1.0
APK36W	90.3	60.1	May 15	38.7	3.3
Roane	90.1	58.4	May 17	36.7	4.0
SS-535R	89.9	59.1	May 16	34.3	3.3
APK30W	89.5	61.2	May 16	38.3	1.3
SC 960057	89.5	57.5	May 12	37.7	8.0
SS-555B	89.5	57.5	May 18	35.3	1.7
SS-566	88.9	55.5	May 19	39.7	1.7
VA 96W-403WS	87.8	59.2	May 19	36.7	2.7
MD 71-19	85.4	60.4	May 15	33.7	2.3
Madison	85.0	59.2	May 14	37.0	3.0
Catocin	84.7	59.3	May 16	37.3	2.3
92 Pan# 26	83.1	59.5	May 18	34.3	1.7
92 PIN# 109	82.7	60.0	May 14	36.7	1.7
NK BL 940582	74.9	58.8	May 14	38.0	1.7
Florida 304	74.2	59.6	May 18	39.0	2.7
Location Means	94.6	58.9	May 15	36.0	2.8
State-wide Means	80.4	57.5	May 11	33.7	1.5
LSD (0.05)	10.8	2.0	2 days	2.0	4.2
CV (%)	7.1	2.4	0.9	3.1	54.2

* This is a wheat/rye cross or triticale, not a wheat variety. Its standard test weight is similar to barley (48 lbs/bu).

Table 11. 2001 Maryland State Barley Variety Performance Trials averaged over 5 locations in Maryland - **Quantico, Queenstown, Beltsville, Clarksville, and Keedysville.**

Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date	Height (in)	Lodging (0-10)
PA 8649-95	121.3	46.1	May 2	37.3	1.3
Catchpenny	120.3	44.6	April 27	35.3	0.8
VA 97B-388	117.7	47.8	May 1	32.4	1.1
VA 96B-248	114.6	47.6	April 29	31.7	2.2
VA 96-44-321	114.1	48.5	April 29	32.9	1.8
Pennbar 66	114.1	44.7	May 3	36.7	0.2
Starling	113.2	43.2	April 29	37.4	3.1
VA 95-42-33	113.0	44.4	April 27	34.9	0.6
Nomini	110.6	43.9	April 27	38.2	1.7
VA 97B-176	110.1	48.6	April 27	32.3	1.4
Ab 1347 (Malt)	110.1	46.8	May 3	32.0	3.0
MD 911222-61	108.9	46.3	April 28	32.3	1.1
VA 97B-178	107.7	48.2	April 28	30.3	1.8
VA 97B-142	107.4	47.9	April 26	32.1	4.0
VA 96-44-304	106.6	48.6	April 26	31.3	3.2
Callao	104.7	47.7	April 26	30.4	5.3
Pennco	101.0	42.4	April 30	35.4	1.7
Pamunkey	93.2	47.6	April 27	33.9	2.7
Barsoy	82.5	47.2	April 24	34.1	2.4
State-wide Means	109.2	46.3	April 28	34.0	2.2
LSD (0.05)	13.2	0.7	3 days	2.5	1.5
CV (%)	16.8	2.2	3.1	10.4	85.2

Table 12. Relative yield of barley entries compared to the mean yield of all entries at each location and throughout the state in 2001.

Entry	State	Quantico	Queenstown	Beltsville	Clarksville	Keedysville
PA 8649-95	111*	119*	105*	123*	101*	111*
Catchpenny	110*	118*	109*	109*	108*	110*
VA 97B-388	108*	108*	109*	101	105*	110*
VA 96B-248	105*	105*	100*	99	96*	123*
Starling	104*	97	103*	110	109*	111*
VA 96-44-321	104*	91	107*	100	107*	116*
Pennbar 66	104*	110*	92	117*	107*	101*
VA 95-42-33	103*	100	92	96	106*	105*
Nomini	101*	99	104*	99	100*	113*
Ab 1347 (Malt)	101*	112*	89	105*	108*	91
VA 97B-176	101*	102*	110*	101	96*	96
MD 911222-61	100*	103*	105*	105*	107*	84
VA 97B-178	99	99	100*	90	110*	96
VA 96-44-304	98	91	99*	96	95	107*
VA 97B-142	98	99	103*	92	96*	102*
Callao	96	98	96	95	92	107*
Pennco	92	94	96	83	114*	78
Pamunkey	85	89	90	101	79	72
Barsoy	76	78	87	77	73	64

Table 13. Two-year and three-year averages of grain yield and test weight of wheat entries in Maryland, 1999-2001.

Entry	Two-year average		Three-year average	
	Yield (bu/A)	Test Weight (lbs/bu)	Yield (bu/A)	Test Weight (lbs/bu)
PA 8649-95	103.8	44.6	-	-
Catchpenny	100.6	42.9	99.7	44.6
VA 96-44-321	98.4	45.7	98.5	46.9
VA 97B-176	97.9	46.4	-	-
Pennbar 66	97.7	44.2	96.5	45.4
Starling	97.1	42.4	94.9	44.0
VA 95-42-33	96.6	43.0	99.0	44.6
VA 96B-248	96.3	45.3	97.2	46.4
MD 911222-61	95.9	43.9	-	-
Nomini	94.9	42.7	93.4	44.1
Ab 1347 (Malt)	92.9	43.5	-	-
Callao	88.2	46.0	92.4	47.3
Pennco	87.1	42.1	90.6	43.5
Pamunkey	85.3	44.4	88.4	46.0
Barsoy	72.3	44.0	74.9	45.7

Table 14. 2001 Maryland State Barley Variety Performance Trials at the Poplar Hill Facility - Quantico, MD.

Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date	Height (in)	Lodging (0-10)
PA 8649-95	121.5	46.3	April 26	37	0
Catchpenny	120.3	44.7	April 22	36	0
Ab 1347 (Malt)	113.6	47.2	April 28	32	0
Pennbar 66	111.9	44.1	April 27	37	0
VA 97B-388	110.2	48.1	April 26	34	0
VA 96B-248	107.1	48.0	April 24	33	1
MD 911222-61	104.4	46.0	April 23	33	0
VA 97B-176	104.1	49.1	April 22	32	0
VA 95-42-33	102.0	45.2	April 22	36	0
Nomini	101.1	44.4	April 21	39	1
VA 97B-178	100.7	48.1	April 24	31	1
VA 97B-142	100.6	48.1	April 22	31	2
Callao	99.8	47.2	April 22	30	4
Starling	98.5	44.3	April 24	38	0
Pennco	95.7	43.0	April 26	38	0
VA 96-44-321	92.9	48.8	April 25	34	0
VA 96-44-304	92.4	47.9	April 22	31	2
Pamunkey	90.9	47.0	April 21	34	2
Barsoy	79.7	47.2	April 20	34	2
Location Means	101.7	46.3	April 23	34	1
State-wide Means	109.2	46.3	April 28	34.0	2.2
LSD (0.05)	18	0.8	1 day	3.4	1
CV (%)	10.7	1.1	0.6	6.7	53

Table 15. 2001 Maryland State Barley Variety Performance Trials at the Wye Facility - **Queenstown, MD.**

Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date	Height (in)
VA 95-42-33	126.3	44.2	April 25	39.7
VA 97B-176	126.0	49.7	April 24	36.3
VA 97B-388	124.9	48.2	April 28	35.3
Catchpenny	124.5	45.7	April 24	39.0
VA 96-44-321	122.8	49.0	April 26	36.3
PA 8649-95	120.1	45.5	April 30	40.7
MD 911222-61	119.9	47.6	April 27	34.7
Nomini	118.4	44.1	April 25	40.7
Starling	117.9	45.1	April 27	42.0
VA 97B-142	117.7	47.2	April 24	35.3
VA 96B-248	114.1	48.1	April 27	34.7
VA 97B-178	114.1	49.1	April 25	33.3
Callao	113.8	49.5	April 24	32.7
VA 96-44-304	112.7	48.9	April 24	34.0
Pennco	110.1	43.0	April 28	39.7
Pennbar 66	105.1	45.3	May 1	36.3
Ab 1347 (Malt)	105.1	47.0	May 1	35.3
Pamunkey	103.4	48.3	April 26	37.7
Barsoy	100.1	47.9	April 22	35.7
Location Means	115.5	47.0	April 26	37.1
State-wide Means	109.2	46.3	April 28	34.0
LSD (0.05)	16.8	0.8	1 day	2.6
CV (%)	8.8	1.0	0.7	4.3

Table 16. 2001 Maryland State Barley Variety Performance Trials at the Hayden Farm Facility - **Beltsville, MD.**

Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date	Height (in)	Lodging (0-10)
PA 8649-95	118.0	46.3	April 30	36.3	0.0
Pennbar 66	111.9	42.7	April 30	36.0	0.0
Starling	105.6	41.0	April 27	36.7	2.3
Catchpenny	104.2	44.0	April 25	34.0	1.0
Ab 1347 (Malt)	101.1	46.0	May 1	30.7	3.7
MD 911222-61	101.0	46.3	April 26	30.7	0.0
Pamunkey	97.1	46.7	April 25	33.3	3.3
VA 97B-176	96.9	48.0	April 24	30.3	3.3
VA 97B-388	96.5	47.0	April 29	30.7	1.3
VA 96-44-321	95.7	47.7	April 27	31.0	2.7
Nomini	95.3	42.2	April 25	37.7	2.3
VA 96B-248	94.9	47.0	April 27	31.3	3.0
VA 96-44-304	92.1	48.1	April 23	30.7	4.0
VA 95-42-33	91.8	44.1	April 26	33.7	0.3
Callao	91.5	46.7	April 23	30.0	5.7
VA 97B-142	88.2	46.7	April 23	31.0	5.0
VA 97B-178	86.1	48.0	April 26	30.3	2.7
Pennco	79.6	41.8	April 27	34.3	0.0
Barsoy	73.8	46.3	March 19	34.0	3.0
Location Means	95.9	45.5	April 26	33.0	2.4
State-wide Means	109.2	46.3	April 28	34.0	2.2
LSD (0.05)	18.5	1.2	1 day	1.6	1.5
CV (%)	11.7	1.6	0.4	2.9	38.1

Table 17. 2001 Maryland State Barley Variety Performance Trials at the Clarksville Facility - Clarksville, MD.

Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date	Height (in)	Lodging (0-10)
Pennco	121.3	42.7	May 3	29.0	0.0
VA 97B-178	117.1	48.4	May 2	24.0	0.0
Starling	116.1	43.7	May 2	32.7	1.3
Ab 1347 (Malt)	115.7	46.8	May 6	27.7	1.3
Catchpenny	114.9	44.3	May 1	30.0	0.0
Pennbar 66	114.3	45.7	May 6	34.3	0.0
VA 96-44-321	114.1	49.2	May 4	28.7	1.7
MD 911222-61	114.0	45.1	May 1	28.3	0.7
VA 95-42-33	113.7	44.8	May 1	29.7	1.0
VA 97B-388	112.0	47.8	May 5	26.0	0.7
PA 8649-95	108.0	46.5	May 6	32.0	0.3
Nomini	106.6	45.2	May 2	32.7	1.3
VA 97B-176	102.8	49.7	May 1	27.0	0.3
VA 97B-142	102.7	49.4	April 29	28.3	4.3
VA 96B-248	102.1	47.3	May 3	26.0	1.7
VA 96-44-304	101.8	49.1	April 29	27.3	3.7
Callao	98.6	47.0	April 30	26.7	3.7
Pamunkey	84.5	47.3	May 2	28.0	2.0
Barsoy	77.9	48.0	April 29	29.0	2.3
Location Means	106.8	46.5	May 2	29.1	1.4
State-wide Means	109.2	46.3	April 28	34.0	2.2
LSD (0.05)	19.4	2.2	1 day	3.5	1.3
CV (%)	11.0	2.9	0.4	7.3	54.0

Table 18. 2001 Maryland State Barley Variety Performance Trials at the Keedysville Facility - Keedysville, MD.

Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date	Height (in)	Lodging (0-10)
VA 96B-248	154.9	47.3	May 3	33.7	3.3
VA 96-44-321	145.1	48.0	May 4	34.7	3.0
Nomini	141.4	44.0	May 2	41.3	1.0
PA 8649-95	138.9	46.0	May 7	40.0	5.0
Starling	138.8	42.7	May 3	40.0	9.0
VA 97B-388	138.0	48.0	May 5	36.0	2.0
Catchpenny	137.6	44.3	May 2	37.3	2.3
VA 96-44-304	134.1	49.0	May 1	34.0	2.7
Callao	133.8	48.3	May 1	33.7	8.7
VA 95-42-33	131.3	44.0	May 2	35.0	1.0
VA 97B-142	127.9	48.3	May 1	34.3	5.0
Pennbar 66	127.1	45.7	May 8	39.7	0.7
VA 97B-176	120.6	46.7	May 2	36.3	1.7
VA 97B-178	120.6	47.7	May 3	33.0	3.7
Ab 1347 (Malt)	114.8	47.0	May 7	34.0	7.0
MD 911222-61	105.4	46.3	May 2	35.0	3.3
Pennco	98.2	41.7	May 4	36.3	6.7
Pamunkey	89.9	48.7	May 2	36.7	3.7
Barsoy	81.0	46.7	April 29	38.3	2.3
Location Means	125.6	46.1	May 3	36.4	4.1
State-wide Means	109.2	46.3	April 28	34.0	2.2
LSD (0.05)	28.2	1.1	1 day	2.2	3.1
CV (%)	13.6	1.4	0.4	3.7	45.0