
Agronomy Facts No. 19

(Revised July, 2005)

2005 MARYLAND WHEAT & BARLEY VARIETY PERFORMANCE TRIALS

<http://www.nrsl.umd.edu/extension/crops/wheat/>

Wheat and barley cultivar 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 2004/2005 season: (1) Allen, in Wicomico County (2) Lower Eastern Shore Research and Education Center's (REC) Poplar Hill Facility near Quantico in Wicomico County; (3) Wye REC at Queenstown in Queen Anne's County; (4) Central Maryland REC's Clarksville Facility in Howard County; and (5) Western Maryland REC near Keedysville 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 sixteen barley entries made up the 2005 tests. One hull-less barley variety (Doyce) was included in the barley trials. Table 2 lists the suppliers and seed treatments applied to each entry. The following characteristics were evaluated in these trials: grain yield (adjusted to 13.5% moisture), test weight, moisture content at harvest, heading date, lodging, and plant height. Lodging was based on a score of 0 - 9 where 0=no lodging and 9=flat. Heading date was determined when approximately 50% of the small grain heads had cleared the boot.

Wheat and barley entries were planted (both for conventional tillage and no-till) at all locations in seven-row plots 16 feet in length and later trimmed to 12 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 based on 90% germination. For no-till studies, a rate of 22 seeds per foot of row was used (approximately 1.7 million plants per acre 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 of the wheat trials were obtained with a HarvestMaster HM-400 attached to the plot combine. Other location-specific management factors are summarized in Table 1.

PRODUCTION YEAR

Planting conditions were favorable at all locations in the fall of 2004. The winter months were relatively cold. Spring green-up occurred slightly later than usual and was followed with a cool and fairly dry April and May. This cool spring induced a long grain fill period that favored grain yield and test weight. Barley and wheat matured at what is considered normal times this year. Powdery mildew was uncharacteristically absent during the spring of 2005 at most locations except for Keedysville and Poplar Hill. No scab damage was observed across the state. Stripe rust caused some damage to what are considered susceptible entries on the Eastern shore. Wheat spindle streak mosaic virus was observed at Clarksville but its incidence was uneven across the study. Grain yield and test weight of barley entries were exceptionally high favored by the cool spring and perfect harvest weather for barley harvest. Wheat harvest was delayed at some locations because of untimely rains. This caused lodging at Clarksville and reduced test weights at Clarksville and Keedysville.

RESULTS

Wheat and barley performance data are summarized in the tables that follow. There are tables summarizing the individual test locations for both small grain crops. In addition, there are statewide summary tables. A two and three-year summary table for selected entries of each crop is also included (see Index to Tables).

Data were statistically analyzed to determine if differences existed between varieties at each location. At the bottom of each table a mean, an 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.

As an aid to assess the performance of individual varieties in the test, relative yield values were calculated. Relative yield value of a variety is the percentage of the mean yield for all varieties at a location. 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. Tables 4 and 13 summarize the relative yields of wheat and barley, respectively, in the 2005 test. In these tables, the relative yields of those varieties with an asterisk were not statistically different from the highest yielding variety at that location.

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ACKNOWLEDGMENTS

The Small Grains Breeding Program would like to recognize the farm staff of the Maryland Agricultural Experiment Stations and Mr. Clifford Cooper (Table 1) for their assistance with land preparation, plot management, harvest, and equipment repair. We would also like to thank the **Maryland Crop Improvement Association** and the **Maryland Grain Producers Utilization Board** for their generous financial contributions to our breeding and testing program. The contributions of Dr. Arv Grybauskas and Mr. Sydney Wallace in disease ratings are also greatly appreciated. We also wish to recognize the greenhouse staff at the University of Maryland (Mr. Shaun Faulkner, Ms. Richelle Green) for all of their assistance during the winter crossing months and Kelly Liberator, Neely Gal-Edd, and Josh Miller for their hard work in the greenhouse as well as during harvest and processing of seed.

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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Table 1. 2004/2005 Wheat and Barley Variety Test Plot Information.**Table 1. 2004/2005 Wheat and Barley Variety Test Plot Information.****1. Allen.****Wicomico County- Allen, MD.**

Planting dates: 10/18/04 (wheat and barley). Harvest date: 6/13/05 (barley); 6/25/05 (wheat)

Soil Type: Matapeake fine sandy loam. pH=6.1. Previous crop: soybeans. No-till used.

Fertilizer: Fall: 333# 10-15-27 on 10/25/04. Spring at greenup: 210# 21-0-0-24S as Ammonium Sulfate on 3/10/05. Spring at GS 6: 59 lbs N as 30-0-0 UAN on 4/25/05

Herbicide: Harmony Extra 0.6oz on 4/25/05. Sprayed for Stripe Rust and Cereal Leaf Beetle with 14oz Quilt and 2oz Warrior on 5/27/05

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

Planting dates: 10/18/04 (wheat and barley). Harvest date: 6/13/05 (barley); 6/17/05 (wheat conventional); 6/24/05 (wheat no-till)

Soil Type: Matapex silt loam (barley), Galestown Sandy Loam (wheat). pH=6.2 both fields; Previous crop: corn.

Fertilizer: Fall: 30# N, 20# P, 40# K, 24# S. Spring at greenup: 40# N (50# N no-till), 20# P, 40# K, 24# S as Ammonium Sulfate

Spring at GS 6: 60# N as 30-0-0 UAN.

Herbicide at GS 3-4: Harmony Extra 0.5 oz

Farm Staff: Ron Mulford, Fred Senkbeil, Mike Senkbeil, and Justin Fontaine.

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

Planting date: 10/12/04 (conventional wheat and barley), 10/13/04 (no-till), 10/29/04 (conventional, late planted). Harvest date: 6/16/05 (barley); 7/3/05 (wheat conventional); 7/12/05 (conventional, late planted).

Soil Type: Matapeake silt loam. pH = 6.6 (conventional), 6.2 (no-till), 6.1 (conventional, late planted) Previous crop: corn (conventional), soybeans (no-till and late planted).

Fertilizer: Fall: 200# 16-8-8 (conventional) on 10/11/04, 20#N (no-till) on 10/13/04. Spring: 80#N (conventional, no-till, and late planted wheat), 60# N (conventional barley) all as ammonium nitrate on 3/17/05.

Herbicide: Harmony XP 0.5oz + NIS on 4/12/05.

Farm Staff: Mark Sultenfuss, Reese Stafford, and Joe Streett.

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

Farm Staff: Kevin Conover, Mike Heyser, Donny Murphy, and Patrick Murphy.

Foundation seed increases of MV5-46 and Choptank.

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

Planting dates: 10/6/04 (wheat and barley). Harvest dates: 6/15/05 (barley); 7/5/05 (wheat)

Soil type: Chester Gravelly. pH= 6.4. Previous crop: corn. Conventional tillage.

Fertilizer: Fall: 150# 7-18-36. Spring: 60# N as 30-0-0 UAN

Herbicide: Harmony Extra 0.6 oz/A

Farm Staff: Dave Justice, and Tim Ridgley Sr.

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

Planting dates: 10/4/04 (wheat and barley). Harvest dates: 6/21/05 (barley). 7/7/05 (wheat).

Soil Type: Hagerstown silt loam. Previous crop: soybeans. Minimum tillage.

Fertilizer: Fall: none. Spring: wheat and barley = 3-21-05 / 100# 38.65-0-0-7S.

Herbicide: Harmony Extra XP 0.5oz on 4-13-05

Farm Staff: Tim Ellis and Dave Wyand.

Table 2. Sources of Winter Wheat, Triticale, and Barley Entries Tested in Maryland, 2004/2005 season.

Supplier/Address/Local Rep.	Brand	Varieties and Seed Treatments*
AgriPro Wheat; Box 411, 520 E. 1050 S., Brookston, IN 47923; Barton Fogleman (877)943-2827	AgriPro	Benton, Cooper, Branson, AP 742 (all treated with DXT)
JGL Inc. 3540 S. US 231 Greencastle, IN 46135; Bryan Gerard (765) 653-5402	JGL	Exp. Sabre, Exp. 501, Kristy, Carlisle (all treated with DXT)
Pioneer Hi-Bred Intl., Inc.; P.O. Box 280, Mount Joy, PA 17552; Joe Mayer (717) 653-5605	Pioneer	25R54, 26R15 (all treated with D)
Syngenta Seeds, Inc.; P.O. Box 1240, Winterville, NC 28590; Jim Popham (302) 378-8148	NK	Coker 9184, Coker 9312, Coker 9436 (B970051), B980582 (all treated with D)
Southern States Coop.; P.O. Box 26234, Richmond, VA 23260; Jerry Hevner (302) 629-7991	SS	520, 550, 560, MPV-57, Exp 8302, Exp 8309, Exp 240438 (All treated with R)
Royster-Clark AgriBusiness, Inc.; 717 Robinson RD SE, Washington Court House, OH 43160; Pat Arthur (757) 787-2882	Vigoro	Tribute , V9412, V9510, V9512 (all treated with DXT)
Renwood Farms, Inc. 17303 Sandy Point Rd., Charles City, VA 23020, David Hula (804)829-6345	Renwood	3260 (DXT)
Growmark FS; 308 NE Front St., Milford, DE 19963; Matt Ivory 302-424-2832	FS	621, 652, FS8302, FSWX300 (all treated with RT)
UniSouth Genetics, Inc.; 2640-C Nolensville RD, Nashville, TN 37211; Kevin Anderson (410) 651-2706	USG	3137, 3209, 3706, Exp. 820 (All treated with GXT)
Florida Agric. Exp. Stn.	-----	FL 304 (RT)
University of Georgia, GA Station, 1109 Experiment St., Griffin, GA 30223; Jerry Johnson (770) 228-7321	-----	GA 951079-2E31, GA951216E26 (both treated with R)
Maryland Agric. Exp. Stn.	-----	Choptank & MV Breeding Line (RT)
VPI & SU/VCIA/EVAREC; 2229 Menokin RD, Warsaw, VA 22572; Jason Kenner (804) 333-3485	-----	Roane, Sisson, McCormick, VA Breeding Lines (all treated with RT)
Kentucky Agric. Exp. Stn.	-----	Barsoy (RT)
Maryland Agric. Exp. Stn.	-----	Catchpenny (RT), MD Breeding Lines (RT)
VPI & SU/VCIA/EVAREC; 2229 Menokin RD, Warsaw, VA 22572; Mark Vaughn (804) 333-3485	-----	Nomini, Callao, Doyce, Price, Thoroughbred (all treated with RT)

*Seed treatment codes in parentheses after each entry are as follows: **RT** = Raxil/Thiram; **GXT** = Gaucho Extreme; **D** = Dividend; **DXT** = Dividend Extreme; **R** = Raxil

The information presented here is also available on the World Wide Web at:

<http://www.nrsl.umd.edu/extension/crops/wheat/>

Table 3. 2005 Maryland State Wheat Variety Performance Trials Averaged Over Allen, Quantico, Queenstown, Clarksville, and Keedysville, MD.

Wheat Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (May)	Height (in)	P. Mildew (0-9)	Beards
FS 652	88.7	56.4	15	37	2.6	None
USG 3209	83.4	57.6	12	35	2.0	None
26R15	83.3	57.4	13	38	1.4	Long
SS-560	82.1	56.4	14	36	1.6	None
FSWX 300	82.0	58.5	13	38	1.0	None
VA00W-526	81.8	58.7	14	35	0.0	None
FS 621	81.3	57.0	10	38	1.7	None
Agripro Cooper	81.1	57.7	14	38	3.4	None
USG Exp. 820	81.0	58.7	15	40	5.2	None
SS-MPV-57	80.8	56.8	15	39	0.9	None
FS 8302	80.7	58.8	14	39	3.8	Long
Agripro Branson	80.5	56.8	13	37	1.2	None
JGL Kristy	79.8	57.8	13	40	3.8	None
Agripro AP 742	79.1	59.5	10	38	1.4	Long
25R54	79.0	57.4	14	38	1.5	Long
JGL Exp. 501	78.9	58.2	15	37	2.0	None
JGL Exp. Sabre	78.7	57.7	14	41	0.9	None
Roane	78.4	59.0	16	38	3.8	None
Vigoro V9412	78.3	58.3	13	38	1.0	None
USG 3137	78.1	57.9	13	43	3.0	None
SS Exp. 240438	78.1	59.7	13	34	3.8	Long
GA 951079-2E31	77.3	59.7	9	38	2.7	None
Vigoro V9510	76.6	58.5	14	37	2.9	Long
USG 3706	76.1	60.0	14	35	0.8	None
B980582	75.6	59.5	9	39	2.1	None
SS-520	75.4	57.6	10	38	0.2	None
SS-8302	75.4	58.6	15	39	3.6	Long
Coker 9184	75.0	59.3	15	36	2.7	None
SS-550	74.9	57.4	14	36	1.4	None
Coker 9436 (B970051)	74.8	56.3	17	35	3.3	None
Vigoro Tribute	74.7	59.7	13	35	0.0	None
Coker 9312	74.7	58.9	12	36	4.1	None
McCormick	74.6	60.0	14	36	0.0	None
Sisson	74.4	57.9	12	35	2.2	None
MV5-46	74.4	59.0	14	36	0.1	None
Agripro Benton	73.5	56.9	14	37	2.0	None
Vigoro V9512	73.2	57.8	14	42	3.6	None
VAN98W-342	73.0	58.5	12	33	0.0	Long
Choptank	71.6	58.8	13	32	0.0	Tip
GA 951216-2E26	70.3	59.0	11	37	5.0	None
SS-8309	68.4	56.8	15	39	0.9	None
JGL Carlisle	67.1	60.5	14	37	4.0	Long
FL304	55.9	58.3	14	40	7.2	Long
Means	76.9	58.3	13	37	2.0	
LSD (0.05)	15.0	1.7	2	3	1.7	
CV (%)	12.0	1.8	8.5	4.2	67.3	

Table 4. Relative Yield of Wheat Entries Compared to the Mean Yield of All Entries at Each Location and Throughout the State in 2005.

Wheat Entry	State	Allen NT	Quantico NT	Quantico**	Wye	Wye LT	Clarksville	Keedysville
-----Relative Yield (%)-----								
FS 652	115*	119*	129*	100	121*	103	125*	110*
USG 3209	108*	101	113	116	100	114	115*	104*
26R15	108*	102	103	102	102	107	128*	114*
SS-560	107*	112*	107	93	106	108	119*	102
FSWX 300	107*	103	115	112	114*	104	95	105*
VA00W-526	106*	107*	104	111	100	97	112*	113*
FS 621	106*	106*	121*	116	116*	101	66	115*
Agripro Cooper	105*	102	91	100	102	108	126*	111*
USG Exp. 820	105*	98	108	106	107	106	122*	94
SS-MPV- 57	105*	118*	106	101	101	106	97	104*
FS 8302	105*	103	104	103	113*	107	109*	98
Agripro Branson	105*	108*	106	103	102	112	92	110*
JGL Kristy	104*	102	88	105	104	103	119*	104*
Agripro AP742	103*	106*	105	112	92	101	101	105*
25R54	103*	102	100	97	95	99	119*	108*
JGL Exp. 501	103*	98	94	93	106	101	130*	98
JGL Exp. Sabre	102*	90	97	103	107	106	109*	106*
Roane	102*	99	102	98	104	109	113*	90
Vigoro V9412	102*	99	102	104	109	104	97	98
USG 3137	102*	103	116	113	97	89	92	101
SS Exp. 240438	101*	102	106	105	97	96	115*	91
GA 951079-2E31	101*	91	100	112	108	94	104	98
Vigoro V9510	100*	105	103	98	104	100	102	87
USG 3706	99*	98	106	107	102	102	77	100
B980582	98*	98	96	97	94	100	102	102
SS-520	98*	104	114	94	100	92	73	108*
SS-8302	98*	102	94	96	96	110	84	104*
Coker 9184	98*	90	96	93	95	100	116*	96
SS-550	97*	106*	103	84	95	95	102	95
Coker 9436	97*	99	95	108	95	91	107	87
Vigoro Tribute	97*	107*	96	91	103	111	73	97
Coker 9312	97*	90	101	98	94	94	111*	95
McCormick	97*	98	93	108	104	108	64	103*
Sisson	97*	96	104	101	95	94	80	107*
MV5-46	97*	100	95	89	99	106	95	94
Agripro Benton	96	103	89	88	99	95	91	101
Vigoro V9512	95	104	98	100	108	94	73	89
VAN98W-342	95	94	87	95	85	96	103	104*
Choptank	93	88	82	90	95	88	107	101
GA 951216-2E26	91	90	94	101	84	90	100	84
SS-8309	89	103	84	86	89	99	65	94
JGL Carlisle	87	81	67	82	88	91	99	102
FL304	73	79	63	69	78	77	71	75

*Indicates that the relative yield of an entry is not significantly different (LSD_{0.05}) from the highest yielding entry at that location.

**At the Poplar Hill location entries were not significantly different for grain yield (P=0.05).

Table 5. Two-year and Three-year Averages of Grain Yield and Test Weight of Wheat Entries in Maryland, 2003-2005.

Entry	Two-year average		Three-year average	
	Yield (bu/A)	Test Weight (lbs/bu)	Yield (bu/A)	Test Weight (lbs/bu)
USG 3209	81.3	57.2	68.3	54.9
FS 652	80.6	56.2	-	-
USG 3137	80.0	57.5	-	-
FS 621	79.9	56.8	-	-
SS-MPV-57	79.7	56.6	70.3	55.2
SS-560	79.4	56.3	67.8	54.3
25R54	79.2	57.4	-	-
V9412	78.0	58.5	-	-
USG 3706	75.7	58.8	66.4	56.8
Roane	75.6	58.7	65.0	57.0
SS-520	75.5	56.9	68.6	55.4
SS-8302	75.4	58.0	-	-
MV5-46	75.2	58.8	69.2	57.6
McCormick	75.2	59.3	67.8	58.1
Vigoro Tribute	75.0	59.2	66.7	58.0
Sisson	74.8	57.9	65.8	55.8
Coker 9436 (B970051)	74.5	56.2	-	-
Coker 9312	73.8	58.8	-	-
SS-550	73.7	57.4	64.4	55.2
Coker 9184	72.8	59.0	62.3	57.5
Agripro Benton	72.3	56.5	-	-
Choptank	71.6	58.3	64.5	56.5
SS-8309	69.8	56.7	-	-
FL304	57.2	58.1	45.9	55.8

Table 6. 2005 Maryland State Wheat Variety Performance Trials at the Allen Location (No-Till)- Allen, MD.

Wheat Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (May)	Height (in)
FS 652	106.8	57.2	11	36
SS-MPV-57	105.5	57.1	12	40
SS-560	100.1	57.5	12	35
Agripro Branson	96.2	58.3	10	37
VA00W-526	95.7	59.6	10	33
Vigoro Tribute	95.5	60.0	10	35
SS-550	94.5	59.2	11	35
Agripro AP742	94.4	60.5	5	38
FS 621	94.3	58.0	5	38
Vigoro V9510	93.4	59.9	12	36
SS-520	93.1	58.3	7	36
Vigoro V9512	92.6	58.9	11	42
FS 8302	92.3	60.0	11	38
USG 3137	92.1	59.3	11	42
FSWX 300	92.1	59.9	10	37
Agripro Benton	91.7	59.0	13	37
SS-8309	91.6	58.9	13	39
SS Exp. 240438	91.5	61.0	10	34
26R15	91.4	58.9	10	36
JGL Kristy	91.2	58.6	10	38
SS-8302	91.2	60.1	12	37
Agripro Cooper	90.9	59.5	12	37
25R54	90.8	58.6	11	38
USG 3209	90.1	59.1	10	35
MV5-46	89.4	60.0	11	36
Coker 9436	88.7	58.8	15	34
Roane	88.7	60.2	14	37
Vigoro V9412	88.3	60.1	10	37
USG Exp. 820	87.4	60.3	12	37
USG 3706	87.4	61.4	11	33
McCormick	87.4	61.0	10	34
JGL Exp. 501	87.4	59.6	13	36
B980582	87.3	60.5	6	38
Renwood 3260	86.3	60.4	8	38
Sisson	85.8	59.7	9	35
VAN98W-342	84.1	59.4	7	33
GA 951079-2E31	81.1	60.3	6	36
JGL Exp. Sabre	80.5	58.9	11	39
Coker 9312	80.3	59.9	8	35
GA 951216-2E26	80.3	59.7	8	37
Coker 9184	80.0	60.4	13	35
Choptank	79.0	59.9	11	31
JGL Carlisle	72.3	62.1	12	37
FL304	70.4	59.0	10	40
Location Means	89.3	59.5	10	37
State-wide Means	76.9	58.3	13	37
LSD (0.05)	12.6	0.8	1.2	2.0
CV (%)	8.7	0.8	7.2	3.4

Table 7. 2005 Maryland State Wheat Variety Performance Trials No-Till at the Poplar Hill Facility- Quantico, MD.

Wheat Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (May)	Height (in)
FS 652	89.7	56.8	11	37
Renwood 3260	84.2	59.3	5	40
FS 621	83.6	56.3	5	39
USG 3137	80.4	57.6	9	45
FSWX 300	79.7	58.6	8	40
SS-520	79.1	56.6	6	40
USG 3209	78.4	57.4	7	36
USG Exp. 820	75.1	58.9	11	40
SS-560	74.3	56.7	10	38
SS Exp. 240438	73.8	59.6	9	35
USG 3706	73.7	60.5	11	37
SS-MPV-57	73.5	57.2	11	40
Agripro Branson	73.4	57.9	9	37
Agripro AP742	73.1	59.6	6	38
Sisson	72.3	57.9	7	37
VA00W-526	72.2	58.6	9	34
FS 8302	72.0	59.3	11	39
26R15	71.8	57.7	10	38
SS-550	71.8	58.3	10	37
Vigoro V9510	71.5	58.9	9	38
Vigoro V9412	71.0	58.5	8	40
Roane	70.9	59.4	13	39
Coker 9312	70.3	59.0	8	36
25R54	69.6	57.7	11	38
GA 951079-2E31	69.3	59.8	4	38
Vigoro V9512	67.7	57.4	10	44
JGL Exp. Sabre	67.6	58.1	10	42
Coker 9184	66.6	59.7	11	36
B980582	66.5	59.8	4	40
Vigoro Tribute	66.4	60.2	9	37
MV5-46	66.1	58.8	10	38
Coker 9436	66.0	57.8	13	37
GA 951216-2E26	65.4	58.7	6	39
SS-8302	65.3	59.3	11	40
JGL Exp. 501	65.3	59.4	12	37
McCormick	64.6	60.5	10	37
Agripro Cooper	62.9	58.8	11	38
Agripro Benton	62.0	57.8	12	38
JGL Kristy	61.0	58.7	10	39
VAN98W-342	60.3	59.6	8	32
SS-8309	58.5	58.7	13	40
Choptank	57.2	59.5	10	33
JGL Carlisle	46.3	61.2	11	37
FL304	44.0	58.4	8	42
Location Means	69.4	58.6	9	38
State-wide Means	76.9	58.3	13	37
LSD (0.05)	9.0	0.7	1	2
CV (%)	8.0	0.8	7.5	2.5

Table 8. 2005 Maryland State Wheat Variety Performance Trials (conventional till) at the Poplar Hill Facility- Quantico, MD.

Wheat Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (May)	Height (in)	P. Mildew (0-9)	Stripe Rust (0-9)
USG 3209	83.2	60.2	4	37	1.0	0.8
FS 621	83.1	58.6	2	41	0.2	5.3
USG 3137	81.1	59.8	8	44	2.7	0.2
GA 951079-2E31	80.5	59.9	2	41	0.5	0.0
Agripro AP742	80.0	60.9	4	39	0.2	0.0
FSWX 300	79.9	60.3	8	40	0.7	0.8
VA00W-526	79.2	60.8	6	36	0.0	0.0
Renwood 3260	78.1	60.5	4	39	0.0	2.8
McCormick	77.4	62.0	9	37	0.0	0.0
Coker 9436	77.1	60.4	13	38	1.8	1.0
USG 3706	76.7	61.6	9	36	0.0	0.2
USG Exp. 820	75.5	59.7	10	42	4.3	0.2
JGL Kristy	75.5	60.5	8	41	2.7	0.0
SS Exp. 240438	75.2	61.9	6	35	2.3	0.7
Vigoro V9412	74.7	60.5	7	40	0.3	0.8
Agripro Branson	73.8	61.2	9	40	0.0	0.2
FS 8302	73.7	58.8	9	40	3.7	0.0
JGL Exp. Sabre	73.7	59.9	9	43	0.5	2.7
26R15	73.2	59.8	9	39	0.3	1.5
SS-MPV-57	72.4	59.7	10	40	0.3	1.8
Sisson	72.1	60.1	7	38	0.7	3.3
GA 951216-2E26	72.0	60.3	3	39	4.3	0.0
FS 652	71.9	59.4	9	37	1.0	2.3
Agripro Cooper	71.6	60.3	10	39	1.0	3.2
Vigoro V9512	71.3	60.0	9	42	2.0	0.0
Roane	70.4	58.8	12	39	2.0	1.2
Vigoro V9510	70.4	61.7	9	40	1.5	3.8
Coker 9312	70.0	61.0	5	37	2.8	3.8
B980582	69.6	62.5	2	40	0.5	1.0
25R54	69.2	59.6	9	36	0.8	0.3
SS-8302	68.7	58.4	11	40	2.3	0.2
VAN98W-342	67.9	60.9	7	33	0.0	4.5
SS-520	67.2	59.1	3	39	0.0	5.0
JGL Exp. 501	66.6	60.8	11	39	1.8	3.8
Coker 9184	66.6	59.0	9	37	0.8	1.3
SS-560	66.3	58.7	8	37	0.7	3.5
Vigoro Tribute	65.4	60.9	9	38	0.0	0.5
Choptank	64.4	59.7	8	33	0.0	2.0
MV5-46	63.4	60.4	9	37	0.0	3.7
Agripro Benton	63.0	59.9	10	38	0.3	0.5
SS-8309	61.8	58.1	11	41	0.5	4.0
SS-550	60.2	59.6	9	38	0.7	5.3
JGL Carlisle	59.0	61.0	9	37	2.0	0.0
FL304	49.7	60.6	8	42	7.0	0.0
Location Means	71.6	60.2	8	39	1.2	1.6
State-wide Means	76.9	58.3	13	37	2.0	NA
LSD (0.05)	21.0 (NS)	1.8	1	2	1.5	2.2
CV (%)	13.2	1.8	8.5	3.4	75.9	83.9

NS: Indicates that the means were not significantly different at P 0.05 level.

NA: Not available. Stripe rust was only evaluated in this test and thus there was no state-wide average.

Table 9. 2005 Maryland State Wheat Variety Performance Trials (conventional till) at the Wye Facility- Queenstown, MD.

Wheat Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (May)	Height (in)
FS 652	95.8	57.8	15	38
FS 621	91.8	58.6	11	39
FSWX 300	90.1	60.5	14	38
FS 8302	89.2	61.1	15	40
Vigoro V9412	86.3	59.8	13	38
GA 951079-2E31	85.4	61.9	10	38
Vigoro V9512	85.3	59.5	13	42
USG Exp. 820	85.2	60.5	15	39
JGL Exp. Sabre	84.9	59.5	14	43
JGL Exp. 501	84.4	59.7	14	38
SS-560	84.1	57.4	14	37
JGL Kristy	82.7	59.4	13	42
McCormick	82.7	61.9	14	37
Roane	82.3	60.9	15	37
Vigoro V9510	82.1	60.9	14	38
Vigoro Tribute	81.4	62.7	14	37
Agripro Branson	81.2	58.0	12	37
USG 3706	81.1	62.2	14	37
Agripro Cooper	80.8	58.9	14	37
26R15	80.7	59.2	13	39
SS-MPV-57	80.0	57.3	14	39
VA00W-526	79.6	61.2	15	36
USG 3209	79.6	58.7	13	37
SS-520	79.1	58.8	11	41
MV5-46	78.7	60.4	13	38
Agripro Benton	78.6	58.8	13	36
SS Exp. 240438	77.2	61.6	14	36
USG 3137	76.9	58.8	13	43
SS-8302	76.2	60.6	15	39
Sisson	75.6	59.1	12	36
SS-550	75.5	58.1	14	36
25R54	75.5	58.6	15	39
Coker 9436	75.4	57.3	16	36
Coker 9184	75.4	60.5	15	37
Choptank	74.9	61.1	12	34
B980582	74.9	61.8	11	39
Coker 9312	74.4	61.4	12	37
Agripro AP742	72.7	62.1	11	39
Renwood 3260	71.5	62.1	11	40
SS-8309	70.8	58.2	14	39
JGL Carlisle	69.6	62.4	13	37
VAN98W-342	67.3	61.4	13	35
GA 951216-2E26	66.8	60.5	13	39
FL304	62.1	60.5	14	42
State-wide Means	76.9	58.3	13	37
Location Means	79.3	60.1	13	38
LSD (0.05)	8.8	1.0	1	2
CV (%)	6.8	1.0	5.7	3.0

Table 10. 2005 Maryland State Wheat Variety Performance Trials Late-planted at the Wye Facility- Queenstown, MD.

Wheat Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (May)
USG 3209	82.2	56.5	16
Agripro Branson	80.7	55.6	15
Vigoro Tribute	80.1	59.2	15
SS-8302	78.9	57.5	17
Roane	78.3	58.4	17
SS-560	77.9	55.3	16
Agripro Cooper	77.7	56.2	16
McCormick	77.6	58.4	15
26R15	77.2	56.1	15
FS 8302	76.7	57.4	17
SS-MPV-57	76.6	55.1	16
USG Exp. 820	76.5	57.9	17
JGL Exp. Sabre	76.2	56.9	15
MV5-46	76.0	58.1	15
FSWX 300	75.2	57.2	15
Vigoro V9412	75.1	57.2	15
JGL Kristy	74.2	56.3	15
FS 652	74.0	55.7	18
USG 3706	73.6	58.5	16
Agripro AP742	72.6	58.3	14
JGL Exp. 501	72.5	56.2	16
FS 621	72.4	56.7	13
Vigoro V9510	72.1	56.8	16
B980582	71.9	58.4	14
Coker 9184	71.8	58.3	18
25R54	71.3	56.7	16
SS-8309	70.9	55.3	17
VA00W-526	69.7	58.2	17
VAN98W-342	69.4	57.9	16
SS Exp. 240438	69.4	59.0	17
Agripro Benton	68.6	55.0	17
SS-550	68.2	56.9	16
GA 951079-2E31	68.0	59.4	14
Sisson	67.9	57.4	15
Coker 9312	67.7	57.9	15
Vigoro V9512	67.6	56.6	17
SS-520	65.9	57.6	14
Renwood 3260	65.4	59.5	14
Coker 9436 (B970051)	65.3	54.6	19
JGL Carlisle	65.2	60.7	15
GA 951216-2E26	64.8	58.3	15
USG 3137	64.4	57.1	15
Choptank	63.5	57.2	15
Becker	55.8	53.9	19
Location Means	72.0	57.2	16
State-wide Means	76.9	58.3	13
LSD (0.05)	7.8	0.9	2
CV (%)	6.7	1.0	5.9

Table 11. 2005 Maryland State Wheat Variety Performance Trials (conventional till) at the Clarksville Facility- Clarksville, MD.

Wheat Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (May)	Height (in)	Lodging (0-10)
JGL Exp. 501	94.7	57.2	17	36	1.3
26R15	93.4	56.5	16	38	2.0
Agripro Cooper	91.3	56.3	18	38	2.7
FS 652	90.6	55.0	17	36	1.7
USG Exp. 820	88.9	58.4	17	40	2.7
JGL Kristy	86.8	56.7	15	38	2.7
SS-560	86.7	55.6	17	34	1.7
25R54	86.2	55.9	16	37	1.3
Coker 9184	84.4	59.7	18	35	1.0
USG 3209	83.9	56.7	16	34	4.0
SS Exp. 240438	83.3	58.4	16	33	0.7
Roane	82.2	59.2	18	38	2.3
VA00W-526	81.3	57.1	18	35	4.7
Coker 9312	80.3	57.8	14	34	1.3
JGL Exp. Sabre	79.4	56.2	17	38	1.0
FS 8302	78.9	57.4	17	38	5.0
Coker 9436	78.0	53.3	19	34	2.3
Choptank	77.9	57.3	16	31	3.0
GA 951079-2E31	75.4	58.7	12	36	1.7
VAN98W-342	74.6	54.0	16	30	1.0
Vigoro V9510	74.5	57.2	16	36	4.7
SS-550	74.2	56.1	17	36	3.3
B980582	73.9	57.6	13	37	3.0
Agripro AP742	73.3	57.9	13	35	1.7
GA 951216-2E26	72.5	58.7	16	35	2.3
JGL Carlisle	71.8	58.4	17	36	2.3
Vigoro V9412	70.9	57.8	16	35	2.0
SS-MPV-57	70.5	56.7	18	37	6.7
FSWX 300	69.1	56.3	16	33	1.3
MV5-46	68.8	58.1	17	34	1.7
USG 3137	66.8	57.2	16	41	5.3
Agripro Branson	66.8	53.1	15	35	4.0
Agripro Benton	66.2	55.1	17	35	4.7
SS-8302	60.7	58.3	17	37	4.7
Sisson	57.8	56.6	17	32	2.7
USG 3706	56.1	57.8	16	34	7.0
Vigoro V9512	53.1	57.0	16	41	7.0
SS-520	53.0	56.5	14	33	5.0
Vigoro Tribute	52.9	56.2	16	31	5.3
FL304	51.5	57.2	17	39	7.3
FS 621	47.7	55.5	14	32	2.3
SS-8309	47.3	53.9	17	34	6.3
McCormick	46.4	60.1	17	36	8.0
Location Means	72.7	56.9	16	36	3.3
State-wide Means	76.9	58.3	13	37	NA
LSD (0.05)	16.5	1.7	1	3	3.1
CV (%)	14.0	1.8	3.9	4.9	57.5

NA: Not available. Lodging was only observed at this location and thus there was no state-wide average.

Table 12. 2005 Maryland State Wheat Variety Performance Trials (minimum till) at the Keedysville Facility-Keedysville, MD.

Wheat Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (May)	Height (in)	P. Mildew (0-9)
FS 621	96.3	55.3	17	38	3.5
26R15	95.7	53.6	18	38	2.5
VA00W-526	94.8	55.2	20	34	0.0
Agripro Cooper	92.8	53.9	19	38	6.5
FS 652	92.3	53.0	21	38	4.5
Agripro Branson	91.6	53.4	18	36	2.5
25R54	90.7	55.0	21	39	2.0
SS-520	90.6	56.2	16	37	0.5
Sisson	89.6	54.3	19	34	4.0
JGL Exp. Sabre	88.6	54.6	20	41	1.0
FSWX 300	87.6	56.4	18	38	1.0
Agripro AP742	87.4	57.5	18	38	2.8
VAN98W-342	87.2	56.2	19	35	0.0
JGL Kristy	87.0	54.6	19	39	5.0
SS-MPV-57	86.9	54.4	22	39	1.3
USG 3209	86.6	54.4	19	34	3.0
SS-8302	86.5	56.0	21	39	5.0
McCormick	86.1	57.3	19	36	0.0
SS-560	85.6	53.8	20	36	2.5
JGL Carlisle	85.5	57.9	19	37	6.5
B980582	85.1	55.9	16	38	4.0
USG 3137	84.5	55.5	19	41	3.0
Agripro Benton	84.3	52.6	20	36	4.0
Choptank	84.1	56.8	19	32	0.0
USG 3706	83.9	57.7	19	35	1.5
Vigoro V9412	82.0	54.6	19	38	1.5
FS 8302	81.8	57.4	20	37	3.5
GA 951079-2E31	81.7	57.7	15	37	5.5
JGL Exp. 501	81.6	54.6	19	36	1.8
Vigoro Tribute	81.3	58.7	18	34	0.0
Coker 9184	80.4	57.3	21	35	5.0
SS-550	79.5	53.8	20	35	2.0
Coker 9312	79.4	55.1	20	35	5.5
SS-8309	78.6	54.0	20	39	1.0
MV5-46	78.4	57.1	20	36	0.3
USG Exp. 820	78.3	55.1	21	40	6.0
SS Exp. 240438	76.0	56.3	20	33	5.5
Roane	75.7	56.3	21	38	6.0
Vigoro V9512	74.8	55.2	20	39	5.5
Coker 9436	72.5	51.5	22	34	5.0
Vigoro V9510	72.4	53.9	20	35	4.5
GA 951216-2E26	70.5	56.9	17	36	5.5
FL304	62.3	55.1	21	37	7.0
Location Means	83.6	55.4	19	37	3.1
State-wide Means	76.9	58.3	13	37	2.0
LSD (0.05)	10.3	1.7	2	3	2.7
CV (%)	7.6	1.9	4.8	5.0	43.1

Table 13. 2005 Maryland State Barley Variety Performance Trials Averaged Over Allen, Quantico, Queenstown, Queenstown (late planted), Clarksville, and Keedysville.

Barley Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (May)	Height (in)	Lodging (0-10)	Beards
Thoroughbred	110.9	52.3	3	37	0.6	Long
Price	106.7	51.9	1	36	2.3	Short
MD931060-15	104.2	51.7	1	37	2.1	Medium
MD931046-93	104.0	50.7	1	36	2.3	Long
MD931048-38	103.8	51.0	2	38	1.8	Short
MD931046-38	103.6	52.0	2	37	1.8	Short
MD931042-98	102.9	52.6	2	33	2.8	Short
MD931043-25	100.0	51.3	April 29	34	2.8	Short
Catchpenny	96.3	47.5	April 29	38	1.2	None
Nomini	95.8	47.3	April 29	42	2.6	None
MD931046-83	93.0	49.2	1	38	2.8	Short
Callao	92.3	53.6	April 29	32	3.9	Medium
MD931011-38	88.2	48.3	April 29	43	3.1	None
MD931016-49	87.6	47.9	April 30	41	1.7	None
Doyce*	85.3	59.3	2	35	1.5	Long
Barsoy	79.1	52.5	April 26	36	3.8	Long
State-wide Means	97.2	51.2	April 30	37	2.3	
LSD (0.05)	17.0	3.1	2	1	1.4	
CV (%)	10.7	3.9	1.2	4.4	72.6	

*Doyce is a hull-less variety.

Table 14. Relative Yield of Barley Entries Compared to the Mean Yield of All Entries at Each Location and Throughout the State in 2005.

Barley Entry	State	Allen	Quantico	Queenstown	Queenstown (late)	Clarksville	Keedysville
-----Relative Yield (%)-----							
Thoroughbred	114*	111*	115	113*	124*	107*	119*
Price	110*	120*	109	103*	89	106*	123*
931060-15	107*	103	101	111*	111*	109*	111*
931046-93	107*	102	108	112*	103	109*	108*
931048-38	107*	108*	103	111*	92	109*	114*
931046-38	107*	98	107	106*	117*	105*	111*
931042-98	106*	113*	103	102*	92	113*	106*
931043-25	103*	109*	104	104*	105	99	97
Catchpenny	99*	96	112	95	109	88	104*
Nomini	99*	99	93	100	108	98	96
931046-83	96	90	95	98	106	98	92
Callao	95	98	100	99	87	102	82
931011-38	91	90	77	98	93	91	95
931016-49	90	99	103	85	93	88	72
Doyce**	88	86	81	95	93	90	84
Barsoy	81	77	81	75	80	87	86

*Indicates that the relative yield of an entry is not significantly different (LSD_{0.05}) from the highest yielding entry at that location.

**Doyce is a hull-less variety.

Table 15. Two-year and three-year averages of grain yield and test weight of barley entries in Maryland, 2003-2005.

Barley Entry	Two-year average		Three-year average	
	Yield (bu/A)	Test Weight (lbs/bu)	Yield (bu/A)	Test Weight (lbs/bu)
Thoroughbred	108.8	50.3	91.0	49.0
MD931046-38	98.3	50.0	81.8	48.3
MD931046-93	97.2	49.2	79.5	47.4
MD931048-38	96.7	49.3	78.4	47.3
Price	96.0	49.5	79.6	47.6
Nomini	95.2	46.7	80.9	44.5
MD931042-98	95.0	49.9	80.7	47.6
MD931043-25	94.8	49.5	77.2	48.5
Catchpenny	92.5	46.5	76.1	44.4
Callao	92.4	51.4	73.7	49.5
Barsoy	82.5	51.6	55.0	49.8
Doyce*	82.0	57.6	72.1	56.1

*Doyce is a hull-less variety.

Table 16. 2005 Maryland State Barley Variety Performance Trials at Allen - Allen, MD.

Barley Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (April)	Height (in)	Lodging (0-9)
Price	135.2	52.3	27	39	2.2
MD931042-98	127.1	52.8	26	37	6.1
Thoroughbred	125.4	52.9	28	40	0.4
MD931043-25	122.2	50.8	24	37	5.3
MD931048-38	121.9	51.4	26	41	1.1
MD931060-15	115.5	51.1	26	41	1.2
MD931046-93	114.6	50.7	25	38	0.3
Nomini	111.8	45.8	24	43	1.4
MD931016-49	111.5	45.7	26	43	1.5
Callao	110.4	54.1	24	34	4.1
MD931046-38	110.1	51.2	25	40	0.4
Catchpenny	107.8	45.7	24	40	1.2
MD931011-38	101.1	45.9	24	45	2.3
MD931046-83	100.7	50.5	25	40	2.1
Doyce*	97.0	58.3	26	36	2.2
Barsoy	87.1	52.2	21	37	5.1
Location Means	112.4	50.7	25	39	2.1
State-wide	97.2	51.2	April 30	37	2.3
LSD (0.05)	13.4	1.5	1	2	2.3
CV (%)	7	2	3	3	60.2

*Doyce is a hull-less variety.

Table 17. 2005 Maryland State Barley Variety Performance Trials at the Poplar Hill Facility - Quantico, MD.

Barley Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (April)	Height (in)	Lodging (0-10)
Thoroughbred	120.7	53.1	29	38	0.3
Catchpenny	117.6	46.2	24	37	2.0
Price	114.5	52.1	28	35	2.3
MD931046-93	113.4	50.2	27	37	2.3
MD931046-38	112.2	51.1	26	38	2.3
MD931043-25	109.2	50.3	26	35	1.3
MD931016-49	108.3	48.4	24	42	2.0
MD931048-38	107.9	50.7	27	39	2.3
MD931042-98	107.9	53.3	27	34	1.7
MD931060-15	106.2	50.8	27	38	3.0
Callao	104.7	52.9	24	34	4.0
MD931046-83	99.9	50.4	27	37	3.0
Nomini	97.9	46.0	23	42	2.7
Barsoy	85.1	51.9	22	35	3.0
Doyce*	84.8	58.5	27	35	2.3
MD931011-38	80.9	48.1	24	42	4.0
Location Means	105.1	50.9	26	37	2.4
State-wide Means	97.2	51.2	April 30	37	2.3
LSD (0.05)	NS	1.5	1	2	2.23
CV (%)	13.1	1.8	0.7	3.0	55.4

*Doyce is a hull-less variety.

Table 18. 2005 Maryland State Barley Variety Performance Trials at the Wye Facility - Queenstown, MD.

Barley Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (May)	Height (in)
Thoroughbred	98.0	52.1	2	36
931046-93	97.6	52.4	9	33
931060-15	96.8	52.6	April 30	34
931048-38	96.2	52.0	April 29	34
931046-38	92.1	52.5	2	34
931043-25	90.4	52.8	April 27	31
Price	89.3	53.2	1	33
931042-98	88.9	53.3	1	29
Nomini	87.0	48.5	April 29	43
Callao	86.0	54.0	April 26	28
931046-83	85.1	51.9	April 30	35
931011-38	85.0	49.2	April 30	41
Doyce*	82.8	60.7	2	35
Catchpenny	82.6	48.8	April 30	37
931016-49	74.2	48.4	April 30	39
Barsoy	65.7	52.1	April 25	30
Location Means	87.0	52.0	April 30	34
State-wide	97.2	51.2	April 30	37
LSD (0.05)	10.0	1.0	2	2
CV (%)	7.0	2.0	1.0	4.0

*Doyce is a hull-less variety.

Table 19. 2005 Maryland State Barley Variety Performance Trials at the Wye Facility (Late planted) - Queenstown, MD.

Barley Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (May)	Lodging (0-9)
Thoroughbred	83.8	51.8	9	0.0
MD931046-38	79.4	52.0	9	0.0
MD931060-15	74.9	50.5	10	0.0
Catchpenny	73.4	46.9	5	0.7
Nomini	73.0	46.8	3	1.0
MD931046-83	71.9	48.7	9	0.0
MD931043-25	71.2	50.0	6	1.3
MD931046-93	69.4	50.0	9	0.0
MD931016-49	62.7	47.7	7	0.3
MD931011-38	62.6	47.9	6	1.0
Doyce*	62.5	58.8	9	0.0
MD931042-98	62.1	49.3	12	0.0
MD931048-38	61.9	49.3	10	0.0
Price	60.4	48.7	8	1.7
Callao	58.5	52.6	7	1.7
Barsoy	54.3	52.3	2	2.7
Location Means	67.6	50.2	8	0.6
State-wide Means	97.2	51.2	April 30	2.3
LSD (0.05)	10.0	0.9	3	1.3
CV (%)	8.8	1.0	1.5	123.9

*Doyce is a hull-less variety.

Table 20. 2005 Maryland State Barley Variety Performance Trials at the Clarksville Facility - Clarksville, MD.

Barley Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (April)	Height (in)
MD931042-98	125.1	53.7	29	33
MD931046-93	121.2	51.2	30	35
MD931060-15	121.2	53.8	30	36
MD931048-38	120.5	52.7	30	36
Thoroughbred	118.4	52.9	May 1	34
Price	117.4	53.3	30	35
MD931046-38	116.9	53.7	30	36
Callao	112.7	54.8	28	32
MD931043-25	109.9	52.3	27	33
Nomini	109.0	47.7	28	40
MD931046-83	108.1	52.4	29	37
MD931011-38	101.3	49.2	27	41
Doyce*	99.7	61.3	30	33
Catchpenny	97.4	48.5	28	35
MD931016-49	97.4	48.5	29	39
Barsoy	96.9	52.8	26	36
Location Means	110.8	52.4	29	36
State-wide	97.2	51.2	April 30	37
LSD (0.05)	8.2	1.2	1	2
CV (%)	4	2	1	3

*Doyce is a hull-less variety.

Table 21. 2005 Maryland State Barley Variety Performance Trials at the Keedysville Facility - Keedysville, MD.

Barley Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (May)	Height (in)	Lodging (0-10)
Price	123.3	51.7	5	38	3.3
Thoroughbred	119.2	51.2	9	39	1.7
MD931048-38	114.6	49.6	7	38	4.3
MD931046-38	110.9	51.6	6	38	4.3
MD931060-15	110.8	51.6	5	38	4.3
MD931046-93	108.0	50.0	5	37	6.3
MD931042-98	106.5	53.2	7	34	3.7
Catchpenny	104.3	48.6	3	39	1.3
MD931043-25	97.1	51.7	3	33	3.7
Nomini	96.3	48.9	5	43	5.3
MD931011-38	95.4	49.3	4	44	5.3
MD931046-83	92.3	50.2	6	39	6.3
Barsoy	85.9	54.0	3	39	5.0
Doyce*	84.4	58.0	8	36	1.5
Callao	81.7	52.9	3	33	6.3
MD931016-49	71.8	48.4	6	40	3.2
Location Means	100.1	51.3	5	38	4.1
State-wide Means	97.2	51.2	April 30	37	2.3
LSD (0.05)	24.1	1.5	2	3	3.6
CV (%)	14.4	1.7	0.8	4.9	52.1

*Doyce is a hull-less variety.