
Agronomy Facts No. 19

(Revised July, 2008)

2008 MARYLAND WHEAT & BARLEY VARIETY PERFORMANCE TRIALS

<http://www.mdcrops.umd.edu>

Wheat and barley cultivar trials were conducted by the Maryland Agricultural Experiment Station and the Department of Plant Science and Landscape Architecture across Maryland in the 2007/2008 season at the following five locations : (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 (practices at each location are listed in Table 1).

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-three wheat entries and eleven barley entries made up the 2008 tests. Two hull-less barley entries (Doyce, and Eve) were 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, plant height, wheat powdery mildew (scored on a 0-9 scale). 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. Plant height did not include the length of the awns. Leaf rust data was kindly provided by Dr. Arvydas Grybauskas.

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 10 feet in randomized blocks with three replications per entry. Both 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-1000b attached to the plot combine. Other location-specific management factors are summarized in Table 1.

PRODUCTION YEAR

Planting conditions were fairly favorable at most locations (except at Clarksville) in the fall of 2007 after an early dry spell followed by heavy rains. December 2007 and January 2008 were warmer than the average. March was also warmer but April was average and early barley varieties were damaged by late frosts in April. May was wet in most of the state but cool and head scab was practically absent this year. Barley and wheat headed earlier than the average date. Powdery mildew was present during the spring of 2008 and was scored at most locations. Leaf rust was present towards the end of the season but stripe rust were practically absent this year. Grain yield of both barley and wheat entries were high at most locations favored by the cool spring. Test weights were lower than average.

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 10% are an indication that the precision of the test is good in distinguishing differences between varieties. A CV above 10% 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 2008 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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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. 2007/2008 Wheat and Barley Variety Test Plot Information.**1. Allen.****Wicomico County- Allen, MD.**

Planting dates: 10/16/07 (wheat and barley). Harvest date: 6/3/08 (barley); 6/14/08 (wheat).

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

Fertilizer: Fall: 319# 10-7-27 on 10/14/07. Spring at greenup: 199# 21-0-0-24S as Ammonium Sulfate on 2/15/08. Spring at GS 6: 60 lbs N as 30-0-0 on 3/18/08

Herbicide: Harmony XtraSG 0.6oz on 3/25/08.

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

Planting dates: 10/16/07 (wheat and barley). Harvest date: 6/3/08 (barley); 6/18/08 (wheat)

Soil Type: Matapex sandy loam. pH=6.4; Previous crop: corn. Conventional and No-till.

Fertilizer: Fall: 100# 30-20-40. Spring at greenup: 40# N, 20#P,

60#K, 24#S on 2/26/08. Harmony XP Herbicide @ 0.5 oz on 3/8/08. Spring at GS 5/6: 60# N as 30% UAN.on 3/19/08.

Herbicide: Harmony XP 0.5 oz on 3/8/08.

Warrior Insecticide @ 3 oz on 4/15/08

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

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

Planting date: 10/15/07 (wheat and barley. Harvest date: 6/11/08 (barley); 6/19/08 (wheat).

Soil Type: Matapeake silt loam. pH = 6.6 conv-till, 6.2 no-till, Previous crop: corn. Conventional and No-till. Fertilizer:

Fall: None. Spring: 60#N as 50/50 UAN/water on 3/3/08. 40#N on wheat as 50/50 UAN/water on 3/28/08

Herbicide: Harmony Xtra 0.6oz on 3/26/08.

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

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

Planting dates: 10/8/07 (wheat and barley). Harvest dates: 6/12/08 (barley); 6/26/08 (wheat)

Soil type: Chester gravely loam. pH= 6.5. Previous crop: corn. Conventional tillage.

Fertilizer: Fall: 150# 7-18-36. Spring: 65# N as 30-0-0 UAN

Herbicide: Harmony Xtra 0.6 oz/A

Farm Staff: Dave Justice, Mike Dwyer, and Tim Ridgley Sr.

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

Planting dates: 10/2/07 (wheat and barley). Harvest dates: 6/12/08 (barley). 6/26/08 (wheat).

Soil Type: Hagerstown silt loam. pH=6.2. Previous crop: corn. Conventional tillage.

Fertilizer: Fall: none. Spring: wheat and barley: 12 gal/ac 30% N (39-0-0) on 3/25/08. 12 gal/ac 30% N (39-0-0) on 4/15/08.

Herbicide: Harmony Extra 0.5oz on 4/15/08.

Farm Staff: Tim Ellis, Douglas Price and Dave Wyand.

Table 2. Sources of Winter Wheat, Triticale, and Barley Entries Tested in Maryland, 2007/2008 season.

Supplier/Address/Local Rep.	Brand	Varieties and Seed Treatments*
AgriPro Coker; P.O. Box 1240, Winterville, NC 28590; Phil Farmer (910)452-5597; phil.farmer@syngenta.com	AgriPro Coker	Branson, Coker 9184, Coker 9553, Cooper, W1377 (treated with D)
Growmark FS; 308 NE Front St., Milford, DE 19963; Duane Orr 410-960-7447; dorr@growmarkfs.com	FS	300, 621, 627 (treated with D)
Pioneer Hi-Bred Intl., Inc.; 14171 Carole Dr., Bloomington, IL 61704; Bill McCollum (302) 584-5428; bill.mccollum@pioneer.com	Pioneer	26R15, 25R56, 25R62 (treated with D/A)
Seedway; 5901 Vera Cruz, Emmaus, PA 18049; Jerry Davis (610)967-4131; JDavis@Seedway.com	Seedway	SW 48, SW 55 (treated with RT)
Southern States Coop.; P.O. Box 26234, Richmond, VA 23260; Jerry Hevner (302) 629-7991; Jerry.Hevner@SSCOOP.COM	SS	SS 520, SS 560, MPV-57, SS 8302, SS 8309, SS 8404 (treated with RT), SS 548 (treated with DXT), SS 8641 (treated with R)
Crop Production Services; P.O. Box 1467, Galesburg, IL 61402-1467; Bill Petka (757) 710-3200; wpetka@roysterclark.com	Vigoro	V9510, V9713, and Dominion (treated with DXT) , GA951231-4E25 treated with RT
UniSouth Genetics, Inc.; 2640-C Nolensville RD, Nashville, TN 37211; Kevin Anderson (410) 651-2706; wimberlyfarm@earthlink.net	USG	3209, 3342, 3592, 3665, 3910, 3860 (treated with DXT)
Renwood Farms, Inc., 17303 Sandy Point Rd., Charles City, VA 23260, David Hula (804) 829-6345	Renwood	3633 (treated with RT)
Ohio Agric. Exp. Stn.	-----	Becker (RT) (Powdery mildew susceptible check)
Maryland Agric. Exp. Stn.	-----	Chesapeake and MD wheat breeding lines (treated with RT) MD barley breeding Lines (treated with RT)
VPI & SU/VCIA/EVAREC; 2229 Menokin RD, Warsaw, VA 22572; Mark Vaughn (804) 333-3485; mvaughn@vt.edu	-----	Jamestown, McCormick, Sisson, VA Breeding Lines (treated with RT) Doyce, Eve, Price, Thoroughbred barley and VA barley breeding lines (treated with RT)

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

Table 3. 2008 Maryland State Wheat Variety Performance Trials Averaged Across 7 environments: Allen (No-till), Quantico (Conventional and No-till), Queenstown (Conventional and No-till), Clarksville, and Keedysville, MD.

Wheat Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (May)	Height (in)	P. Mildew (0-9)	L. Rust (0-9)	Lodging (0-9)	Beards
Branson	91.4*	55.9	1	36	1.5	2	1.8	N
FS 621	90.6*	56.1	April 30	38	2.1	2	2.4	N
VA 03W-409	90.1*	54.2	4	35	0.0	1	1.6	N
25R62	89.3*	53.0	3	36	2.0	4	1.9	Y
USG 3665	89.1*	55.6	3	38	2.6	2	1.2	N
SS 548	88.8*	56.5	2	38	4.2	3	1.3	N
26R15	88.8*	55.5	2	38	1.5	2	1.4	Y
FS 627	88.4*	56.2	2	38	3.3	2	1.3	N
25R56	88.1*	54.6	3	36	3.3	3	1.9	N
Jamestown	87.2	58.5	April 30	34	2.2	5	1.6	Y
SW 55	87.0	56.3	2	38	3.4	4	2.1	N
USG 3555	86.9	55.1	1	33	1.2	5	1.3	N
VA 01W-205	86.8	57.2	1	33	2.7	1	1.9	N
SS 520	86.3	56.2	April 30	38	1.7	3	1.8	N
SS 8641	85.9	55.7	3	38	0.0	1	1.3	N
SS MPV57	85.3	55.2	4	38	3.0	3	2.8	N
USG 3592	84.1	56.4	3	40	2.5	1	1.5	N
Vigoro Dominion	84.0	56.1	3	34	0.4	3	1.3	N
Coker 9553	83.8	58.2	April 30	37	0.6	3	1.3	Y
Chesapeake	83.3	57.2	2	36	0.5	6	2.1	N
Cooper	83.2	56.2	3	37	4.2	5	0.8	N
Vigoro (GA951231-4E25)	83.2	55.8	April 29	35	4.6	2	1.8	N
FS 300	82.5	57.1	1	38	2.6	6	0.6	N
USG 3342	82.1	56.8	1	33	1.1	3	2.1	Y
USG 3860	82.0	54.4	5	37	3.5	5	2.1	N
SS 560	81.9	55.1	4	35	1.7	6	1.4	N
VA 03W-434	81.3	55.2	3	32	0.2	2	1.2	N
SW 48	81.2	55.4	1	41	3.4	3	0.8	N
Vigoro V9510	81.2	56.7	2	36	2.6	6	0.9	Y
SS 8302	80.8	55.7	3	39	5.4	8	1.9	Y
USG 3209	78.7	54.7	1	35	2.2	9	0.9	N
MD01W233-05-1	78.6	55.9	2	35	3.3	3	0.9	N
MD01W233-06-8	78.5	59.0	3	36	0.1	3	2.5	N
W-1377	78.3	56.8	5	39	5.3	4	3.3	N
Renwood 3633	76.7	56.5	2	39	5.2	3	1.0	N
MD01W233-06-1	76.5	58.2	3	37	0.0	2	1.1	N
SS 8404	75.7	57.7	2	33	4.0	3	1.1	Y
McCormick	75.5	58.1	3	35	0.0	8	2.3	N
MD01W233-06-16	75.3	57.9	3	35	0.1	3	1.9	Y
Vigoro V9713	75.2	56.0	3	35	2.6	4	2.0	Y
SS 8309	74.0	54.9	4	38	2.9	5	1.7	N
MD99W64-05-12	73.2	57.6	2	37	2.6	1	1.6	Y
Becker	62.5	55.0	5	38	6.4	8	3.1	N
State-wide Means	82.8	56.2	2	36	2.4	3.7	1.7	
LSD (0.05)	3.8	0.6	1	1	0.8	NA	0.8	
CV (%)	7.6	1.7	0.7	3.2	44.8	NA	77.2	

*Indicates that the average yield of an entry is not significantly different (LSD_{0.05}) from the highest yielding entry across locations.

Table 4. Relative Yield of Wheat Entries Compared to the Mean Yield of All Entries at Each Location and Throughout the State in 2008.

Wheat Entry	State	Allen NT	Quantico NT	Quantico CT	Wye CT	Wye NT	Clarksville CT	Keedysville CT
	-----Relative Yield (%)-----							
Branson	110*	112*	104*	113*	112*	110*	106	117*
FS 621	109*	111*	106*	97	112*	107*	123*	115*
VA 03W-409	109*	115*	107*	107*	110*	106*	109	110*
25R62	108*	104	114*	109*	115*	110*	95	110*
USG 3665	108*	106	106*	110*	108*	106*	111*	107*
SS 548	107*	111*	108*	105*	113*	101*	111*	106*
26R15	107*	100	106*	107*	116*	108*	98	116*
FS 627	107*	104	108*	108*	105	109*	110	107*
25R56	106*	113*	108*	109*	101	100*	111*	107*
Jamestown	105	102	110*	98	118*	110*	97	106*
SW 55	105	105	109*	104*	106	99*	105	109*
USG 3555	105	104	103	104*	104	103*	113*	108*
VA 01W-205	105	106	113*	108*	107	103*	103	98
SS 520	104	106	104*	98	104	98*	114*	110*
SS 8641	104	111*	91	102*	95	89	122*	118*
SS MPV57	103	109*	90	106*	99	105*	105	109*
USG 3592	102	117*	101	97	102	109*	105	86
Vigoro Dominion	101	105	101	105*	104	96	87	112*
Coker 9553	101	90	103	99	103	102*	102	113*
Chesapeake	101	103	98	98	100	102*	106	101
Cooper	100	105	107*	109*	97	100*	93	95
Vigoro (GA951231-4E25)	100	110*	99	94	107*	96	128*	78
FS 300	100	102	98	101	98	96	95	108*
USG 3342	99	90	90	95	105	109*	114*	96
USG 3860	99	101	107*	101	97	92	100	97
SS 560	99	101	84	99	100	101*	103	107*
VA 03W-434	98	106	94	98	105	105*	84	97
SW 48	98	87	105*	109*	93	95	92	107*
Vigoro V9510	98	93	104*	102*	96	93	103	97
SS 8302	98	102	102	99	97	95	96	95
USG 3209	95	103	104*	97	87	103*	93	86
MD01W233-05-1	95	83	94	110*	97	105*	90	87
MD01W233-06-8	95	99	90	92	97	95	99	95
W-1377	95	99	94	92	95	90	95	99
Renwood 3633	93	90	90	88	93	92	94	103*
MD01W233-06-1	92	92	89	92	89	97	97	94
SS 8404	91	97	105*	88	88	103*	82	82
McCormick	91	86	96	94	92	97	85	91
MD01W233-06-16	91	90	83	102*	91	97	93	82
Vigoro V9713	91	87	102	93	95	93	89	81
SS 8309	89	85	99	93	85	101*	80	88
MD99W64-05-12	88	81	89	86	94	91	91	90
Becker	76	70	86	77	72	80	70	76

*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, 2006-2008.

Wheat Entry	Two-year average		Three-year average	
	Yield (bu/A)	Test Weight (lbs/bu)	Yield (bu/A)	Test Weight (lbs/bu)
Branson	87.2	57.0	86.5	56.7
SW 55	86.9	57.2	-	-
FS 627	86.3	57.3	85.2	57.1
26R15	86.1	56.8	85.1	56.7
USG 3665	85.3	56.6	85.8	56.7
USG 3555	84.7	56.0	-	-
FS 621	83.8	56.9	82.9	56.7
USG 3592	83.5	57.8	84.3	57.7
Jamestown	83.5	59.5	-	-
SS MPV57	83.4	56.5	83.9	56.5
Chesapeake	82.9	58.5	84.3	58.4
USG 3342	82.9	58.4	81.6	57.7
Vigoro Dominion	81.5	57.3	82.0	57.4
Vigoro (GA951231-4E25)	81.3	57.5	-	-
Coker 9553	81.3	59.6	80.5	59.2
SS 560	81.2	56.0	82.1	56.1
Cooper	80.7	57.5	81.1	57.5
SS 8302	80.5	57.0	82.0	57.2
Vigoro V9510	80.1	57.9	82.7	57.6
SS 520	79.7	56.9	80.1	56.7
USG 3209	78.3	56.4	81.5	56.5
FS 300	76.8	58.1	77.2	58.0
Vigoro V9713	76.4	57.8	-	-
McCormick	75.0	59.3	77.0	59.4
SS 8404	73.9	59.1	76.9	59.1
SS 8309	72.5	56.6	77.0	56.9
Becker	65.4	55.6	67.2	55.3

Table 6. 2008 Maryland State Wheat Variety Performance Trials no-Till at Allen, MD.

Wheat Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (April)	Height (in)	P. Mildew (0-9)
USG 3592	93.4	56.2	27	39	3.3
VA 03W-409	91.7	53.6	27	33	0.0
25R56	90.3	54.5	27	37	1.7
Branson	89.0	56.6	24	34	0.0
FS 621	88.5	55.9	22	36	2.7
SS 548	88.5	57.2	26	37	2.0
SS 8641	88.3	56.4	27	38	0.0
Vigoro (GA951231-4E25)	88.0	55.5	22	34	2.7
SS MPV57	86.7	54.2	27	37	4.0
USG 3665	84.9	56.2	26	38	0.3
SS 520	84.8	56.8	22	36	1.3
VA 03W-434	84.5	55.1	26	31	0.0
VA 01W-205	84.2	57.1	25	33	1.3
SW 55	83.8	56.4	26	36	0.3
Cooper	83.6	57.4	27	36	4.0
Vigoro Dominion	83.5	57.0	26	33	0.0
USG 3555	83.3	55.1	24	31	0.7
FS 627	83.2	56.2	25	37	0.7
25R62	82.6	52.4	27	36	0.7
Chesapeake	82.1	56.6	26	36	0.0
USG 3209	81.8	54.9	25	34	2.3
SS 8302	81.7	53.7	27	37	5.0
Jamestown	81.6	58.3	23	33	0.7
FS 300	81.1	56.9	24	36	1.7
USG 3860	80.9	53.2	29	36	5.0
SS 560	80.2	54.1	28	33	1.0
26R15	79.9	55.1	26	38	1.3
W-1377	78.8	53.1	28	38	6.0
MD01W233-06-8	78.7	59.5	27	37	0.0
SS 8404	77.7	58.1	26	32	6.0
Vigoro V9510	74.6	58.0	25	35	1.0
MD01W233-06-1	73.3	56.3	27	37	0.0
MD01W233-06-16	72.1	58.1	27	35	0.0
Renwood 3633	71.9	56.8	25	40	4.7
USG 3342	71.5	58.2	24	31	0.0
Coker 9553	71.5	59.2	23	35	0.7
SW 48	69.6	55.0	25	39	1.7
Vigoro V9713	69.5	56.4	27	33	1.0
McCormick	68.9	58.5	27	34	0.0
SS 8309	67.5	54.7	27	39	2.3
MD01W233-05-1	66.5	56.0	25	34	2.3
MD99W64-05-12	64.4	57.5	26	36	1.7
Becker	55.9	55.6	28	36	7.3
Location Means	79.8	56.1	26	36	1.8
State-wide Means	82.8	56.2	May 2	36	2.4
LSD (0.05)	7.8	1.2	1	2	1.6
CV (%)	6.0	2.4	0.7	2.8	56.3

Table 7. 2008 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 (April)	Height (in)
25R62	88.3	53.2	29	34
VA 01W-205	87.6	57.1	27	32
Jamestown	85.2	58.1	23	32
SW 55	84.8	55.6	28	35
25R56	83.6	54.1	29	35
SS 548	83.6	56.2	28	35
FS 627	83.5	55.3	28	36
VA 03W-409	83.4	54.5	29	32
Cooper	83.2	55.5	30	35
USG 3860	82.8	53.9	May 1	35
FS 621	82.5	55.4	24	36
26R15	82.4	55.2	29	35
USG 3665	82.4	55.3	30	37
SS 8404	81.4	57.1	27	32
SW 48	81.2	55.3	27	39
USG 3209	81.1	55.7	27	32
Branson	80.9	55.1	27	34
Vigoro V9510	80.5	55.6	27	35
SS 520	80.4	55.2	24	35
Coker 9553	79.6	57.1	25	35
USG 3555	79.6	55.6	27	31
Vigoro V9713	79.1	55.6	29	33
SS 8302	79.0	55.5	28	36
USG 3592	78.4	56.2	28	37
Vigoro Dominion	78.1	56.7	27	33
Vigoro (GA951231-4E25)	76.9	55.8	23	32
SS 8309	76.8	55.2	30	36
FS 300	75.8	56.1	27	34
Chesapeake	75.8	56.2	27	33
McCormick	74.7	57.4	29	33
VA 03W-434	73.3	54.8	29	29
MD01W233-05-1	73.2	55.7	28	32
W-1377	72.6	55.6	May 1	36
SS 8641	70.7	55.6	28	35
USG 3342	70.2	56.4	25	30
SS MPV57	70.0	53.8	29	36
MD01W233-06-8	70.0	58.0	28	33
Renwood 3633	69.6	55.8	28	37
MD99W64-05-12	69.0	56.1	27	35
MD01W233-06-1	68.9	57.6	29	33
Becker	66.6	54.5	30	35
SS 560	65.4	53.9	28	33
MD01W233-06-16	64.5	57.8	29	33
Location Means	77.6	55.7	28	34
State-wide Means	82.8	56.2	May 2	36
LSD (0.05)	8.6	0.7	1	2
CV (%)	6.8	0.8	0.6	2.9

Table 8. 2008 Maryland State Wheat Variety Performance Trials Conventional Till at Quantico, MD.

Wheat Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (April)	Height (in)	P. Mildew (0-9)	Lodging (0-9)
Branson	106.1	56.8	27	35	3.7	1.0
MD01W233-05-1	103.3	58.1	29	34	5.3	1.3
USG 3665	103.2	56.5	30	37	3.3	1.0
SW 48	102.2	57.2	27	41	4.3	1.3
Cooper	102.0	57.2	30	36	6.0	1.0
25R62	101.9	54.8	30	37	2.0	1.0
25R56	101.6	55.7	30	36	5.0	0.7
VA 01W-205	100.8	58.3	27	34	2.7	0.7
FS 627	100.7	57.4	28	38	4.7	1.0
VA 03W-409	100.2	55.0	29	34	0.0	0.7
26R15	100.1	57.0	28	38	2.3	0.7
SS MPV57	99.4	56.0	28	37	5.0	1.0
Vigoro Dominion	98.2	57.6	28	34	1.7	1.3
SS 548	97.7	58.3	28	37	6.7	1.3
USG 3555	97.1	56.5	27	32	2.7	0.7
SW 55	97.0	57.3	27	38	3.0	1.0
Vigoro V9510	95.8	57.0	27	36	3.7	2.0
MD01W233-06-16	95.8	58.7	28	34	0.0	1.3
SS 8641	94.9	56.8	28	38	0.0	1.3
USG 3860	94.9	56.0	30	36	5.0	1.3
FS 300	94.3	57.7	27	37	3.7	1.0
SS 8302	92.5	57.1	28	38	7.0	0.7
SS 560	92.3	56.6	30	36	2.5	0.7
Coker 9553	92.2	57.9	24	37	1.3	1.0
Chesapeake	91.9	58.4	27	36	1.7	2.0
VA 03W-434	91.8	56.6	28	33	0.3	0.3
SS 520	91.7	57.5	24	37	3.7	1.3
Jamestown	91.2	59.2	24	34	3.0	0.0
USG 3592	90.9	58.2	29	37	2.0	2.7
FS 621	90.7	57.4	25	37	3.7	2.0
USG 3209	90.2	57.1	25	34	3.3	1.7
USG 3342	88.4	57.4	27	33	2.3	0.7
Vigoro (GA951231-4E25)	87.9	56.7	23	33	5.7	2.3
McCormick	87.5	58.6	29	34	0.0	1.0
SS 8309	87.0	56.7	29	38	4.3	0.7
Vigoro V9713	87.0	57.0	29	35	4.0	1.0
MD01W233-06-8	86.4	58.5	30	35	0.0	1.7
MD01W233-06-1	86.3	58.3	29	38	0.0	1.0
W-1377	85.9	57.3	31	37	6.3	1.0
SS 8404	82.7	57.9	28	32	3.7	0.3
Renwood 3633	82.5	57.5	28	38	5.3	1.3
MD99W64-05-12	80.4	57.1	28	38	6.0	1.0
Becker	72.3	55.8	30	38	8.0	1.0
Location Means	93.5	57.2	28	36	3.4	1.1
State-wide Means	82.8	56.2	May 2	36	2.4	1.7
LSD (0.05)	11.1	1.0	1	1	1.1	1.8
CV (%)	7.3	1.1	0.7	2.4	59.6	32.2

Table 9. 2008 Maryland State Wheat Variety Performance Trials Conventional-till at the Wye- Queenstown, MD.

Wheat Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (April)	Height (in)	P. Mildew (0-9)	L. Rust* (0-9)	Lodging (0-9)
Jamestown	104.1	59.1	27	36	3.8	5	1.3
26R15	102.4	57.1	29	40	1.3	2	1.3
25R62	101.6	54.6	30	38	1.8	4	5.0
SS 548	99.8	57.8	29	38	5.5	3	1.3
Branson	98.9	56.6	29	36	0.8	2	1.3
FS 621	98.8	57.9	28	41	1.8	2	3.3
VA 03W-409	96.9	55.2	May 1	36	0.0	1	2.0
USG 3665	95.5	57.5	30	38	2.3	2	1.3
VA 01W-205	94.4	58.6	30	33	1.7	1	2.7
Vigoro (GA951231-4E25)	94.2	58.5	26	36	4.8	2	5.7
SW 55	93.3	57.1	30	39	3.8	4	1.3
FS 627	93.1	57.3	29	37	3.3	2	1.7
USG 3342	93.0	58.3	28	34	0.3	3	0.7
VA 03W-434	92.6	56.2	30	32	0.3	2	0.7
Vigoro Dominion	91.9	57.6	May 2	33	0.0	3	3.0
SS 520	91.8	56.9	27	41	0.3	3	3.3
USG 3555	91.6	57.3	29	34	0.3	5	1.7
Coker 9553	91.0	59.1	26	37	0.0	3	1.3
USG 3592	90.4	57.7	May 1	40	2.0	1	4.7
25R56	88.8	55.5	May 1	37	4.0	3	3.0
Chesapeake	88.4	58.2	30	37	0.0	6	3.0
SS 560	88.3	56.2	May 2	36	0.8	6	1.3
SS MPV57	87.5	55.8	May 1	38	3.5	3	2.3
FS 300	87.0	57.3	29	38	1.5	6	1.3
USG 3860	85.9	55.9	May 3	37	5.2	5	2.3
Cooper	85.9	57.6	30	38	5.0	5	3.3
MD01W233-05-1	85.5	56.9	29	34	3.0	3	2.7
MD01W233-06-8	85.5	59.7	May 1	35	0.3	3	3.0
SS 8302	85.3	57.0	May 2	39	6.0	8	1.3
Vigoro V9510	85.1	56.7	May 1	34	3.2	6	4.7
W-1377	84.3	58.7	May 2	40	6.3	4	2.0
SS 8641	84.1	55.9	30	38	0.0	1	2.3
Vigoro V9713	83.8	57.3	May 1	34	3.3	4	1.3
MD99W64-05-12	82.9	58.9	29	37	2.0	1	1.0
Renwood 3633	82.0	57.4	29	40	6.5	3	1.0
SW 48	81.7	56.2	29	41	4.2	3	2.0
McCormick	81.1	59.0	30	35	0.0	8	2.0
MD01W233-06-16	80.3	58.6	29	35	0.0	3	3.3
MD01W233-06-1	78.8	59.4	30	37	0.0	2	1.3
SS 8404	77.6	59.1	30	32	3.7	3	0.3
USG 3209	76.7	55.2	May 1	35	2.3	9	4.7
SS 8309	74.7	56.2	May 2	38	2.8	5	2.3
Becker	63.3	56.2	May 3	39	7.3	8	1.7
Location Means	88.4	57.3	30	37	2.5	3.7	2.3
State-wide Means	82.8	56.2	May 2	36	2.4	NA	1.7
LSD (0.05)	10.7	0.8	1	2	1.9	NA	2.2
CV (%)	7.5	0.9	0.6	3.8	47.8	NA	59.6

*Leaf rust data kindly provided by Dr. Arvydas Grybauskas (PSLA Dept.).

Table 10. 2008 Maryland State Wheat Variety Performance Trials (no till) at the Wye Facility- Queenstown, MD.

Wheat Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (May)	Height (in)	Lodging (0-9)
25R62	79.0	52.7	5	33	2.0
Branson	78.9	55.2	4	33	4.3
Jamestown	78.5	57.8	4	32	1.0
FS 627	77.9	54.8	5	34	3.3
USG 3592	77.9	55.9	6	38	2.3
USG 3342	77.8	56.3	5	31	1.3
26R15	77.7	55.2	5	34	4.3
FS 621	76.8	54.7	4	35	1.7
USG 3665	76.2	54.4	6	36	2.7
VA 03W-409	75.7	55.5	8	33	2.0
SS MPV57	75.4	54.5	9	34	3.7
VA 03W-434	75.3	55.3	8	30	4.3
MD01W233-05-1	75.2	55.4	5	32	4.0
VA 01W-205	73.8	56.4	3	30	2.7
USG 3209	73.7	54.4	4	34	1.3
USG 3555	73.6	54.4	6	32	1.7
SS 8404	73.5	57.9	8	33	4.0
Chesapeake	73.3	56.4	4	34	3.0
Coker 9553	73.1	56.9	3	34	1.0
SS 560	72.6	54.0	7	32	3.7
SS 8309	72.2	55.6	7	35	1.7
SS 548	72.0	55.4	6	34	3.7
25R56	71.8	53.5	4	33	4.0
Cooper	71.7	54.9	6	34	3.0
SW 55	71.2	55.8	6	34	0.0
SS 520	70.3	54.6	2	34	3.7
McCormick	69.7	57.6	5	32	1.0
MD01W233-06-16	69.7	56.6	6	31	1.0
MD01W233-06-1	69.3	57.9	5	35	3.7
FS 300	68.9	56.5	3	36	1.7
Vigoro (GA951231-4E25)	68.8	55.4	3	33	3.0
Vigoro Dominion	68.5	54.8	5	32	3.7
MD01W233-06-8	68.3	58.6	5	32	2.0
SS 8302	67.8	57.5	5	35	2.7
SW 48	67.7	54.1	6	39	5.3
Vigoro V9510	66.7	55.3	5	33	2.7
Vigoro V9713	66.5	56.7	7	32	4.7
USG 3860	66.0	54.2	9	33	1.3
Renwood 3633	66.0	56.0	6	37	5.3
MD99W64-05-12	65.0	57.6	4	33	3.0
W-1377	64.2	58.4	7	37	1.0
SS 8641	63.7	55.2	6	36	3.3
Becker	57.6	54.4	9	35	3.3
Location Means	71.6	55.7	5	34	2.8
State-wide Means	82.8	56.2	2	36	1.7
LSD (0.05)	9.0	1.2	2	2	3.4
CV (%)	7.8	1.4	1.1	4.3	75.8

Table 11. 2008 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)	P. Mildew (0-9)	Lodging (0-9)
Vigoro (GA951231-4E25)	94.7	55.8	6	38	5.0	0.5
FS 621	90.9	55.5	9	42	1.0	0.5
SS 8641	90.6	55.6	13	42	0.0	0.0
USG 3342	84.9	55.3	9	34	0.0	0.0
SS 520	84.2	56.1	8	41	0.8	0.5
USG 3555	83.9	54.0	10	35	0.0	0.0
USG 3665	82.6	53.4	12	41	3.0	0.0
25R56	82.3	54.4	10	39	4.0	0.0
SS 548	82.1	53.8	13	40	4.0	0.0
FS 627	81.4	55.9	11	41	4.0	0.5
VA 03W-409	81.2	52.7	15	36	0.0	0.0
Chesapeake	78.6	57.0	11	37	0.0	1.0
Branson	78.5	55.4	10	39	0.0	0.0
SW 55	78.1	55.7	11	40	4.0	0.0
USG 3592	78.1	55.9	12	45	3.3	3.0
SS MPV57	77.8	55.6	14	42	1.5	4.0
Vigoro V9510	76.4	57.2	13	39	0.8	0.0
SS 560	76.4	55.6	14	37	1.0	0.0
VA 01W-205	76.4	57.1	11	36	4.3	0.5
Coker 9553	75.5	58.5	8	40	0.0	0.0
USG 3860	74.0	54.0	14	39	2.3	0.0
MD01W233-06-8	73.5	59.5	13	38	0.0	0.0
26R15	72.7	54.3	10	40	1.0	0.0
MD01W233-06-1	72.2	60.1	10	39	0.0	0.0
Jamestown	72.0	58.6	8	37	0.0	0.0
SS 8302	71.3	56.3	12	41	7.0	0.0
W-1377	70.7	56.7	14	42	7.0	0.0
FS 300	70.6	57.2	10	44	5.0	0.0
25R62	70.4	51.1	12	38	3.0	0.0
Renwood 3633	69.4	55.4	8	43	7.0	0.0
MD01W233-06-16	69.2	59.4	13	36	0.0	0.0
Cooper	68.9	55.7	12	37	4.0	0.0
USG 3209	68.8	53.3	10	40	1.5	1.5
SW 48	68.0	54.3	10	44	3.3	0.0
MD99W64-05-12	67.8	58.6	10	40	0.5	0.0
MD01W233-05-1	66.7	53.9	9	39	0.5	0.0
Vigoro V9713	65.8	54.9	12	38	2.0	0.0
Vigoro Dominion	64.8	54.1	15	36	0.0	0.0
McCormick	62.9	56.8	13	37	0.0	0.0
VA 03W-434	62.5	54.1	13	34	0.0	0.0
SS 8404	60.9	57.2	10	34	7.0	0.0
SS 8309	59.3	53.5	12	39	3.8	0.0
Becker	52.0	52.9	17	44	8.0	0.0
Location Means	74.2	55.6	11	39	2.3	0.3
State-wide Means	82.8	56.2	2	36	2.4	1.7
LSD (0.05)	12.1	1.6	2	3	2.0	1.8
CV (%)	8.1	1.4	0.6	3.6	43.3	322.5

Table 12. 2008 Maryland State Wheat Variety Performance Trials (conventional 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)	Lodging (0-9)
SS 8641	108.9	54.1	9	42	0.0	1.0
Branson	107.3	55.7	6	39	2.5	1.0
26R15	106.5	54.9	8	42	3.0	0.3
FS 621	105.8	55.8	6	41	3.8	2.7
Coker 9553	103.8	58.9	5	41	1.8	1.0
Vigoro Dominion	103.0	55.2	9	37	0.5	1.3
VA 03W-409	101.6	52.8	9	39	0.0	1.0
SS 520	101.2	56.3	4	39	3.7	2.7
25R62	100.9	52.3	8	39	3.2	0.7
SW 55	100.7	56.4	6	41	6.0	1.0
SS MPV57	100.1	56.8	10	43	5.2	2.0
FS 300	99.7	57.6	7	44	3.0	1.3
USG 3555	99.0	53.0	6	37	3.2	2.0
FS 627	98.8	56.8	7	41	4.7	1.3
USG 3665	98.6	56.1	8	42	4.5	1.3
25R56	98.4	54.2	8	39	2.7	2.3
SS 560	98.2	55.3	11	40	4.0	1.0
SW 48	98.1	55.3	6	45	5.0	2.3
SS 548	98.0	56.6	8	41	4.8	0.7
Jamestown	97.6	58.5	5	38	4.3	1.7
Renwood 3633	95.1	56.3	6	42	7.0	1.7
Chesapeake	93.1	57.4	7	37	0.5	2.0
W-1377	91.3	57.6	11	41	6.3	1.0
VA 01W-205	90.5	56.0	8	35	5.0	3.3
VA 03W-434	89.4	54.3	7	37	0.5	0.3
USG 3860	89.4	53.6	10	41	5.2	1.3
Vigoro V9510	89.4	56.7	8	40	5.2	1.7
USG 3342	88.5	55.6	7	36	2.7	3.3
SS 8302	87.6	53.2	9	44	7.0	1.7
Cooper	87.4	55.1	8	40	5.5	1.0
MD01W233-06-8	87.0	58.9	8	39	0.0	2.7
MD01W233-06-1	86.9	57.8	8	41	0.0	2.0
McCormick	83.5	58.5	8	39	0.0	1.7
MD99W64-05-12	82.9	57.5	7	43	4.3	0.3
SS 8309	80.6	52.0	9	42	3.3	1.0
MD01W233-05-1	80.1	55.2	7	38	6.8	1.3
USG 3592	79.5	54.9	9	44	4.2	4.0
USG 3209	78.8	52.5	8	38	3.0	3.3
SS 8404	75.8	56.4	8	37	5.8	0.3
MD01W233-06-16	75.2	55.9	9	37	0.0	3.0
Vigoro V9713	74.8	53.8	9	37	3.7	2.0
Vigoro (GA951231-4E25)	71.7	53.0	4	36	7.0	4.7
Becker	69.9	55.5	11	42	7.8	1.0
Location Means	92.0	55.6	8	40	3.6	1.7
State-wide Means	82.8	56.2	2	36	2.4	1.7
LSD (0.05)	13.4	2.4	1	2	2.2	2.2
CV (%)	8.9	2.7	0.7	2.7	37.8	77.8

Table 13. 2008 Maryland State Barley Variety Performance Trials Averaged Over Allen, Quantico, Queenstown, Clarksville, and Keedysville.

Barley Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (April)	Height (in)	Lodging (0-10)	Beards
Thoroughbred	111.2	45.7	25	39	3.5	Y
Price	104.0	46.3	21	36	3.5	Y
MD931046-93	99.1	43.1	20	37	3.7	Y
MD931046-51	94.8	41.6	21	40	5.1	Y
Eve*	86.0	56.9	18	37	5.3	Y
MD931046-38	84.1	42.8	22	38	4.7	Y
MD931060-15	82.7	42.7	21	38	4.8	Y
Barsoy	81.7	44.3	17	38	5.3	Y
Nomini	80.6	41.9	19	41	4.5	N
Doyce*	70.8	52.0	22	37	6.1	Y
State-wide Means	89.9	45.9	21	38	4.7	
LSD (0.05)	7.5	1.2	1	1	1.0	
CV (%)	11.5	3.6	0.8	4.0	29.8	

*hull-less entries.

Table 14. Relative Yield of Barley Entries Compared to the Mean Yield of All Entries at Each Location and Throughout the State in 2008.

Barley Entry	State	Allen	Quantico	Queenstown	Clarksville	Keedysville
	-----Relative Yield (%)-----					
Thoroughbred	124*	130*	135*	135*	90*	110
Price	116*	113	100	108	117*	142*
MD931046-93	110	112	115	100	89*	108
MD931046-51	105	99	107	112	73	89
Eve**	96	88	90	97	86*	105
MD931046-38	94	104	102	105	65	79
MD931060-15	92	102	99	103	70	85
Barsoy	91	93	88	56	101*	123*
Nomini	90	71	NA	NA	58	71
Doyce**	79	88	64	84	72	88

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

**hull-less entries.

NA= not available (deer damaged).

Table 15. Two-year and three-year averages of grain yield and test weight of barley entries in Maryland, 2006-2008.

Barley Entry	Two-year average		Three-year average	
	Yield (bu/A)	Test Weight (lbs/bu)	Yield (bu/A)	Test Weight (lbs/bu)
Thoroughbred	106.7	48.0	109.4	49.0
MD931046-93	98.7	46.1	102.8	47.1
MD931046-51	95.2	44.6	98.8	45.4
Price	94.2	47.0	97.1	47.6
MD931046-38	93.6	46.7	99.1	47.4
MD931060-15	91.1	46.2	96.4	47.2
Barsoy	82.9	48.0	.	.
Eve*	75.3	58.5	81.2	59.0
Doyce*	73.3	54.7	82.5	55.8

*hull-less entries.

Table 16. 2008 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)
Thoroughbred	128.9	46.7	16	39	0.3
Price	111.2	46.4	12	37	1.7
MD931046-93	110.2	43.7	11	38	1.3
MD931046-38	102.8	44.3	13	38	2.3
MD931060-15	100.8	44.5	13	39	2.0
MD931046-51	97.8	42.4	12	40	4.3
Barsoy	91.9	47.0	9	39	1.0
Doyce*	87.3	54.1	12	37	2.7
Eve*	86.9	55.2	8	37	2.0
Nomini	70.0	43.1	12	43	7.7
Location Means	98.8	46.7	12	39	2.5
State-wide Means	89.9	45.9	21	38	4.7
LSD (0.05)	14.2	2.1	2	2	1.9
CV (%)	8.4	2.6	1.0	3.1	44.2

*hull-less entries.

Table 17. 2008 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 (0-9)
Thoroughbred	119.5	47.6	21	38	0.3
MD931046-93	102.1	45.8	19	38	1.7
MD931046-51	94.8	43.5	20	41	3.2
MD931046-38	90.1	44.1	20	37	2.0
Price	88.9	46.7	21	35	2.7
MD931060-15	87.5	45.0	19	39	2.0
Eve*	79.5	59.7	13	36	5.0
Barsoy	78.3	47.8	13	39	4.3
Doyce*	56.5	53.5	21	36	5.0
Nomini	NA	NA	15	40	1.0
Location Means	88.6	48.2	18	38	2.7
State-wide Means	89.9	45.9	21	38	4.7
LSD (0.05)	12.0	3.7	2	1	1.9
CV (%)	7.8	4.4	0.8	2.1	40.4

*hull-less entries.

NA= not available (deer damaged).

Table 18. 2008 Maryland State Barley Variety Performance Trials at the Wye Facility - Queenstown, MD.

Barley Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (April)	Height (in)	Lodging (0-9)
Thoroughbred	102.0	47.2	25	39	2.7
MD931046-51	84.7	41.7	26	37	4.0
Price	82.2	47.3	22	36	4.0
MD931046-38	79.8	41.8	27	35	3.3
MD931060-15	78.0	44.2	26	35	2.3
MD931046-93	76.1	41.7	24	33	4.7
Eve*	73.2	59.4	21	36	3.7
Doyce*	63.7	54.6	26	35	5.7
Barsoy	42.7	40.4	19	34	6.3
Nomini	NA	NA	22	41	3.3
Location Means	75.8	46.5	24	36	4.0
State-wide Means	89.9	45.9	21	38	4.7
LSD (0.05)	13.2	2.6	2	2	1.2
CV (%)	10.0	3.3	0.8	3.2	17.4

*hull-less entries.

NA= not available (deer damaged).

Table 19. 2008 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)	Lodging (0-9)
MD931046-51	122.3	42.5	22	40	5.0
Price	119.2	47.7	28	35	2.3
MD931046-93	117.0	44.8	23	37	2.7
Thoroughbred	114.5	45.6	30	38	5.7
Nomini	113.1	43.6	23	41	1.7
Eve*	103.2	57.2	22	36	7.3
Barsoy	92.7	44.2	20	39	7.0
MD931046-38	82.4	44.6	25	39	7.3
MD931060-15	76.3	40.8	22	38	8.7
Doyce*	73.0	52.1	27	37	8.0
Location Means	101.3	46.3	24	38	5.6
State-wide Means	89.9	45.9	21	38	4.7
LSD (0.05)	21.5	2.9	1	2	4.3
CV (%)	12.4	3.7	0.7	3.3	45.4

*hull-less entries.

Table 20. 2008 Maryland State Barley Variety Performance Trials at the Keedysville Facility - Keedysville, MD.

Barley Entry	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (April)	Height (in)	Lodging (0-9)
Price	118.3	43.4	24	37	6.7
Barsoy	102.6	42.0	22	40	8.0
Thoroughbred	91.2	41.3	May 1	40	8.3
MD931046-93	90.2	39.4	24	39	8.3
Eve*	87.1	53.1	24	39	8.7
MD931046-51	74.2	37.9	25	42	9.0
Doyce*	73.4	45.8	25	38	9.0
MD931060-15	70.9	39.0	24	40	9.0
MD931046-38	65.4	39.5	24	40	8.7
Nomini	58.7	39.2	23	39	8.7
Location Means	83.2	42.0	25	39	8.4
State-wide Means	89.9	45.9	21	38	4.7
LSD (0.05)	23.7	2.7	1	4	0.8
CV (%)	16.6	3.7	0.5	6.6	5.8

*hull-less entries.