

1998 MARYLAND WHEAT & BARLEY CULTIVAR PERFORMANCE TRIALS

Soft red winter wheat and winter feed barley varieties, commercial brands, and advanced breeding lines are evaluated annually by the Maryland Agricultural Experiment Station, Department of Natural Resource Sciences and Landscape Architecture, at several locations in the state representing the range of environments in which the crops are grown. Both wheat and barley were planted at five locations (Quantico and Queenstown on the Eastern Shore, and Beltsville, Clarksville, and Keedysville west of the Chesapeake Bay).

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, promising new varieties, commercial brands, and advanced breeding lines are included in the tests to compare their performance to that of known varieties. There were 64 wheat entries and 28 barley entries in the 1998 tests. One triticale entry (a wheat/rye cross) and three hybrid wheat entries were included in the wheat trials. Although triticale has a test weight of 48 lbs/bu, its yield is reported based on a 60 lb/bu test weight. Two entries (SS FFR-523W and SS FFR-Exp 3409) were entered in the state trials twice using different seed treatments. These entries are always followed by a letter designating their respective seed treatments (B = Baytan; R = Raxil/Thiram; and D = Dividend). The following characteristics were evaluated in these trials: yield (adjusted to 13.5% moisture), test weight, moisture content at harvest, heading date, lodging susceptibility, and plant height. Lodging is based on a score of 0 - 10 where 0 = no lodging and 10 = flat. Heading date is determined when 90% of the small grain heads have 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, making for a total 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/A. Plots were mechanically harvested using a small plot combine (Hege 125).

Above average temperatures and above average rainfall was the predominant weather pattern for the fall and winter of 1997/98. Conditions at planting, however, were very dry causing a slight delay in planting on the Eastern Shore. There was no winter kill anywhere in the state in our trials. Diseases such as powdery mildew, tan spot, scab, and glume blotch were present at all locations. Both the wheat and barley headed early and matured early. Harvest was considerably ahead of schedule this summer.

ACKNOWLEDGEMENTS

A number of people helped to make this year's wheat and barley variety trials a success. The Small Grains Breeding Program would particularly like to recognize the farm staff at each of the five locations for their assistance with land preparation, plot management, harvest, and equipment maintenance.

Location

Poplar Hill - Quantico
Wye - Queenstown
Beltsville
Clarksville
Keedysville

Farm Crew

F. R. Mulford, D. R. Sockriter, E. C. Anderson, and D. L. Dickerson
L. H. Smith, M. A. Sultenfuss, and P. R. Stafford
K. J. Conover, T. H. Runner, G. E. Dills, and R. W. Griffith
D. M. Justice and T. D. Ridgley
F. J. Allnutt, T. S. Ellis, D. Wyand, G. R. Welsh, D. Price, and D. Thompson

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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 gratefully acknowledged. Finally, a special note of appreciation is also extended to the county agents who disseminate this information.

**1998 Maryland State Wheat Variety Performance Trials Averaged Over 5 Locations in Maryland -
Quantico, Queenstown, Beltsville, Clarksville, and Keedysville.**

Brand-Entry	Yield (bu/A)	Test Weight (lbs/bu)	Moisture Content @Harvest (%)	Heading Date	Height (in)	Lodging¹ (0-10)	Beards
AgriPro Patton	83.9	55.0	14.6	May 2	38.8	0.2	None
Trical 498*	82.7	48.1	11.4	April 25	43.7	1.0	Long
Quantum 7203 [§]	81.4	55.9	14.6	April 30	37.8	0.5	None
SS FFR-522	80.8	55.9	15.5	May 1	37.0	1.1	None
SS FFR-Exp 3409 (R)	80.5	54.2	15.3	May 2	35.2	0.1	None
SS FFR-Exp 3409 (D)	79.6	53.9	15.2	May 3	34.7	0.2	None
Quantum 706 [§]	78.9	55.1	14.9	May 1	38.8	0.7	On Tip
Pocahontas	78.8	54.3	14.8	April 29	36.3	0.7	None
Pioneer 2552	78.5	57.0	14.5	May 2	36.5	0.0	Long
VA 94-54-479	77.3	55.3	14.6	April 29	34.0	1.6	None
Hoffman 37	76.8	53.8	15.0	April 30	37.7	0.4	Long
Hyttest W9850	76.8	56.2	14.8	May 6	39.1	0.2	None
AgriPro Mason	76.4	55.6	14.4	April 30	39.0	1.3	None
Pioneer 25R57	76.1	54.4	14.3	May 1	37.9	0.3	None
MD 88130-24	76.0	54.3	14.7	May 4	39.9	0.4	None
NK Coker 9803	75.6	56.3	14.5	April 28	35.3	1.3	None
Jackson	75.4	54.5	14.9	May 3	36.8	1.2	None
Quantum 708 [§]	75.3	55.1	14.5	May 3	39.7	1.2	-----
NK Coker 9663	75.2	56.0	15.1	May 3	43.6	1.7	None
SS FFR-518W	75.1	54.0	14.7	April 28	35.3	1.4	None
DynaGro 424	74.9	52.7	15.3	May 7	39.0	0.7	None
Pioneer 2643	74.5	55.8	14.3	April 29	32.9	0.0	On Tip
Catoclin	74.3	55.8	14.5	May 4	40.7	2.0	None
Glory	74.2	55.4	14.5	May 3	35.7	0.7	None
Freedom	74.1	54.1	14.7	May 4	38.7	1.5	None
Featherstone 520	74.1	55.2	14.5	April 30	36.0	1.6	On Tip
Hoffman 14	73.8	54.9	15.1	May 4	33.4	0.3	On Tip
SS FFR-555W	73.6	53.8	15.6	May 4	36.5	0.8	On Tip
Hopewell	73.3	54.0	14.9	May 6	37.1	0.7	None
NK Coker 9835	73.3	54.8	14.7	May 4	33.5	1.2	None
DynaGro 422	73.1	53.8	14.7	May 2	38.1	0.2	Long
Roberts	73.1	53.1	14.7	April 27	35.8	1.9	None
Roane	73.0	58.1	15.0	May 4	35.1	0.6	None
NK Coker 9704	72.8	56.0	14.7	April 28	34.7	1.0	None
Madison	72.6	54.7	14.8	May 1	38.8	1.7	On Tip
OH 515-Exp	72.5	55.0	14.8	May 7	37.3	1.2	None
VA 96-52-71	72.2	53.5	14.5	April 30	34.0	0.3	None

Terra Exp 215	72.1	57.1	15.0	May 4	39.7	0.9	None
AgriPro Foster	71.5	56.0	14.8	May 4	37.6	0.8	None
Hoffman 95	71.2	57.0	15.2	May 5	37.7	0.9	On Tip
Hoffman 57	71.0	56.3	14.9	May 1	38.1	0.7	None
SS FFR-523W (D)	70.9	52.1	15.2	April 29	33.3	1.7	None
MD 84010-10	70.8	53.3	14.6	May 3	37.4	0.8	On Tip
Fleming	70.7	55.2	14.3	April 28	35.1	0.8	Long
SS FFR-523W (B)	70.3	52.7	15.1	April 30	33.2	1.6	None
MD 88122-22	70.2	56.3	14.5	April 30	38.7	1.8	On Tip
GA-Gore	69.8	52.8	14.6	April 27	35.3	1.2	None
BT 87073-28	69.7	54.3	14.1	April 30	35.0	1.2	None
Pennmore	69.1	56.9	14.9	May 8	40.6	0.7	None
SS FFR-Exp 332 (R)	68.5	56.0	15.3	May 5	38.2	0.4	On Tip
Terra SR 211	68.3	55.1	15.4	May 2	36.3	0.7	None
Hyttest W9875	68.0	52.0	15.2	May 7	37.9	0.9	None
SS FFR-511W	67.8	53.3	15.2	May 1	38.2	0.7	On Tip
Hyttest W9602	67.2	52.1	15.1	May 7	38.4	0.7	None
Patterson	67.1	55.8	14.4	May 2	38.3	0.2	None
BT 87073-22	66.7	55.6	14.5	May 4	34.8	1.0	None
IL 90-6364	66.4	56.9	15.1	May 10	38.7	1.6	None
Dynasty	66.3	55.6	14.7	May 5	38.6	0.7	Long
Terra SR 205	65.8	54.3	14.7	May 3	36.7	0.7	On Tip
Clemson 201	65.4	55.6	15.1	May 3	39.5	2.1	None
P91202RB1-3-3	65.4	55.7	14.4	May 3	34.8	0.2	None
SS FFR-558W (R)	65.3	56.0	15.6	May 3	38.1	0.6	None
DynaGro 426	65.2	57.8	15.0	May 4	40.0	1.2	None
Ernie	63.9	53.6	14.3	April 30	34.4	0.7	None
Means	72.7	54.9	14.8	May 2	37.2	0.9	-----
LSD (.05)	4.6	0.6	0.5	1 Day	1.0	0.6	-----
CV (%)	8.9	1.6	4.5	51.7	3.7	59.3	-----

¹ Lodging based on a score of 0 - 10 where 0 = no lodging and 10 = flat. Lodging scores taken at Quantico and Queenstown only.

* This is a wheat/rye cross or triticale, not a wheat variety. Its standard test weight is like that of barley, 48 lbs/bu.

[§] Quantum brand entries in this test are hybrid wheats.

Some entries in the test appear twice under different seed treatments which are noted in parentheses following the entry name.

Relative yield of wheat entries compared to the mean yield of all entries at each location and throughout the state in 1998.

	State	Quantico	Queenstown	Beltsville	Clarksville	Keedysville
Brand-Entry	-----Relative Yield (%)-----					
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AgriPro Patton	115.4*	108.4*	122.3*	116.0*	113.8*	114.2*
Trical 498 [£]	113.7*	106.7*	129.8*	117.5*	109.7*	105.4*
Quantum 7203 [§]	112.0*	124.2*	113.9	110.5*	108.5*	108.9*
SS FFR-522	111.1*	110.2*	110.4	115.6*	110.0*	109.4*
SS FFR-Exp 3409 (R)	110.7*	124.6*	109.4	109.5*	105.1*	110.6*
SS FFR-Exp 3409 (D)	109.5*	110.9*	110.2	107.2*	115.5*	104.5
Quantum 706 [§]	108.5	111.4*	115.1	103.7	107.3*	106.5*
Pocahontas	108.4	94.2	113.2	116.3*	107.4*	106.3*
Pioneer 2552	108.0	105.8*	109.4	102.9	101.4	117.3*
VA 94-54-479	106.3	106.5*	106.7	111.4*	105.2*	102.9
Hoffman 37	105.6	123.5*	103.1	102.9	101.3	105.2*
Hyttest W9850	105.6	107.0*	105.9	108.2*	109.0*	99.6
AgriPro Mason	105.1	110.2*	114.3	100.7	102.8	100.5
Pioneer 25R57	104.7	104.9*	112.2	101.9	99.0	105.7*
MD 88130-24	104.5	118.8*	99.4	108.2*	104.6*	99.2
NK Coker 9803	104.4	108.1*	113.9	105.6	100.2	96.3
Jackson	103.7	92.3	103.5	106.9*	107.8*	103.1
Quantum 708 [§]	103.6	106.5*	103.4	106.9*	97.4	105.0*
NK Coker 9663	103.4	105.3*	102.1	107.2*	111.6*	93.4
SS FFR-518W	103.3	110.5*	103.6	116.9*	91.2	100.3
DynaGro 424	103.0	92.8	97.7	110.5*	105.1*	104.1
Pioneer 2643	102.5	102.8	97.7	96.8	106.8*	105.9*
Catoctin	102.2	113.9*	94.7	103.6	100.1	103.2
Glory	102.1	111.4*	102.9	99.7	96.2	104.0
Freedom	101.9	82.5	104.8	101.9	110.4*	101.0
Featherstone 520	101.9	102.8	111.9	107.8*	91.8	98.6
Hoffman 14	101.5	92.3	98.0	104.9	97.4	109.1
SS FFR-555W	101.2	102.5	97.9	103.3	103.9	98.9
Hopewell	100.8	95.8	98.9	102.7	99.4	104.4
NK Coker 9835	100.8	111.6*	94.5	99.6	103.7	98.8
DynaGro 422	100.5	119.1*	101.4	98.1	97.4	96.1
Roberts	100.5	113.5*	105.7	96.1	94.0	99.6
Roane	100.4	90.9	108.5	93.5	99.5	104.4
NK Coker 9704	100.1	111.9*	111.8	97.8	93.8	93.4
Madison	99.9	88.6	106.0	100.9	99.2	99.7
OH 515-Exp	99.7	124.9*	89.8	96.5	97.2	100.4

VA 96-52-71	99.3	103.0*	100.1	94.4	96.7	102.4
Terra Exp 215	99.2	97.9	92.7	99.7	102.9	100.9
AgriPro Foster	98.3	99.3	97.0	93.3	105.1*	96.2
Hoffman 95	97.9	84.6	94.2	95.7	100.9	105.4*
Hoffman 57	97.7	89.1	92.8	97.2	104.4	99.5
SS FFR-523W (D)	97.5	107.4*	97.5	83.7	94.3	105.9*
MD 84010-10	97.4	90.5	85.4	108.5*	100.2	98.9
Fleming	97.2	90.7	99.6	107.6*	101.3	87.1
SS FFR-523W (B)	96.7	89.1	89.3	92.9	100.5	104.8*
MD 88122-22	96.6	107.2*	92.3	104.0	89.0	95.9
GA-Gore	96.0	96.3	109.4	95.8	91.1	90.3
BT 87073-28	95.9	95.6	95.9	100.6	92.1	95.8
Penmore	95.0	84.4	91.7	94.5	93.6	103.7
SS FFR-Exp 332 (R)	94.2	89.8	93.8	86.6	100.5	96.3
Terra SR 211	93.9	90.0	94.5	89.3	95.6	96.7
Hytest W9875	93.5	97.4	90.2	87.7	99.2	93.3
SS FFR-511W	93.2	93.0	88.6	92.5	95.1	95.6
Hytest W9602	92.4	83.2	92.6	83.9	99.9	96.0
Patterson	92.3	86.0	91.2	89.6	91.5	98.5
BT 87073-22	91.7	91.6	79.3	93.2	92.3	99.3
IL 90-6364	91.3	67.7	89.1	99.4	87.1	101.6
Dynasty	91.2	90.0	81.8	92.5	93.4	95.6
Terra SR 205	90.5	91.2	83.0	83.8	97.9	94.1
Clemson 201	89.9	74.6	92.7	95.4	91.8	89.0
P91202RB1-3-3	89.9	83.7	84.7	91.3	98.2	88.1
SS FFR-558W (R)	89.8	84.2	89.3	87.3	95.7	89.2
DynaGro 426	89.7	88.1	91.9	90.9	95.7	82.4
Ernie	87.9	99.1	96.5	79.8	86.3	83.3
Loc. Mean Yield (bu/A)	72.7	43.0	71.4	69.2	84.6	95.5

* The relative yield of those entries with an asterisk are not significantly different (LSD .05) from the highest yielding entry in that location.

‡ This is a wheat/rye cross or triticale, not a wheat variety.

§ Quantum brand entries in this test are hybrid wheats.

Some entries in this test appear twice under different seed treatments which are noted in parentheses following the entry name.

Relative yields are expressed as the percent of the mean yield of all entries at each location. Therefore, an entry 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 entries at that location.

Three year average yield performance of wheat entries in Maryland, 1996-1998.

Brand-Entry	Statewide		East of the Bay		West of the Bay	
	bu/A	Rank	bu/A	Rank	bu/A	Rank
Trical 498*	98.1	1	92.7	1	101.6	3
Pocahontas	93.6	2	76.6	15	108.6	1
DynaGro 422	92.7	3	86.1	2	96.7	11
Jackson	92.5	4	78.4	9	104.1	2
NK Coker 9663	92.3	5	70.6	24	100.5	6
Hopewell	91.9	6	84.1	3	97.5	7
Pioneer 2552	91.3	7	79.8	8	101.0	4
Freedom	90.9	8	83.2	4	96.3	12
Hoffman 14	90.3	9	77.2	14	101.0	4
Glory	89.7	10	79.9	7	97.3	8
Madison	89.0	11	82.1	5	94.2	17
NK Coker 9835	88.8	12	78.2	10	97.3	8
SS FFR-555W	88.2	13	80.2	6	94.3	16
Catoctin	87.3	14	77.4	13	95.5	13
Featherstone 520	86.9	15	77.5	11	94.7	15
AgriPro Mason	86.4	16	77.5	11	93.9	18
Terra SR 205	85.9	17	74.7	19	95.4	14
Hoffman 95	85.6	18	75.1	18	93.6	19
NK Coker 9803	85.0	19	71.9	22	97.1	10
Patterson	84.7	20	76.1	16	91.4	21
GA-Gore	83.9	21	75.3	17	91.3	22
Penmore	83.3	22	74.1	20	90.4	23
Dynasty	82.9	23	71.8	23	91.6	20
SS FFR-511W	82.1	24	73.3	21	88.8	24

* This is a wheat/rye cross or triticale, not a wheat variety.

1998 Maryland State Wheat Variety Performance Trials at the Poplar Hill Facility - Quantico, MD.

Brand-Entry	Yield (bu/A)	Test Weight (lbs/bu)	Moisture Content @Harvest (%)	Heading Date	Height (in)	Lodging ¹ (0-10)
OH 515-Exp	53.7	52.9	13.8	May 6	36.2	1.5
SS FFR-Exp 3409 (R)	53.6	52.6	13.6	April 29	31.7	0.2
Quantum 7203 ^s	53.4	54.9	13.3	April 27	33.8	0.7
Hoffman 37	53.1	52.9	13.6	April 27	33.0	0.8
DynaGro 422	51.2	53.1	13.0	April 29	34.0	0.3
MD 88130-24	51.1	52.5	13.0	May 1	35.7	0.0
Catoctin	49.0	55.5	13.5	May 2	36.0	2.3
Roberts	48.8	52.7	13.6	April 23	32.3	2.0
NK Coker 9704	48.1	54.9	13.0	April 24	29.3	1.0
NK Coker 9835	48.0	53.2	13.5	May 1	29.7	1.3
Quantum 706 ^s	47.9	54.5	13.3	April 29	34.0	0.7
Glory	47.9	54.4	13.1	April 30	30.5	1.2
SS FFR-Exp 3409 (D)	47.7	52.2	13.1	April 30	30.8	0.3
SS FFR-518W	47.5	52.0	12.9	April 25	32.3	1.2
AgriPro Mason	47.4	53.9	13.8	April 27	33.8	1.7
SS FFR-522	47.4	55.0	13.5	April 29	31.5	1.2
AgriPro Patton	46.6	52.4	12.9	April 30	33.5	0.0
NK Coker 9803	46.5	54.8	13.3	April 25	30.5	1.0
SS FFR-523 (D)	46.2	51.2	13.6	April 27	28.8	2.0
MD 88122-22	46.1	53.5	13.4	April 26	32.2	1.8
Hyttest W9850	46.0	54.4	13.3	April 25	34.8	0.3
Trical 498*	45.9	45.0	9.2	April 20	39.3	1.0
VA 94-54-479	45.8	52.5	13.3	April 26	30.5	1.8
Quantum 708 ^s	45.8	53.5	13.1	May 1	34.7	1.8
Pioneer 2552	45.5	55.1	13.6	April 30	32.3	0.0
NK Coker 9663	45.3	53.3	13.8	May 1	35.0	2.3
Pioneer 25R57	45.1	53.3	12.9	April 29	33.3	0.7
VA 96-52-71	44.3	53.0	13.4	April 26	30.2	0.3
Pioneer 2643	44.2	54.9	13.4	April 25	28.5	0.0
Featherstone 520	44.2	54.2	13.5	April 26	30.3	1.5
SS FFR-555W	44.1	51.5	13.2	May 1	31.8	1.0
AgriPro Foster	42.7	53.1	13.6	May 2	33.2	1.2
Ernie	42.6	54.4	13.4	April 27	29.3	0.3
Terra Exp 215	42.1	55.8	13.0	May 3	34.3	1.2
Hyttest W9875	41.9	50.1	13.4	May 6	34.7	1.2
GA-Gore	41.4	50.6	13.3	April 24	30.0	1.3
Hopewell	41.2	51.9	13.9	May 4	32.3	1.0

BT 87073-28	41.1	52.9	12.9	April 29	31.2	0.8
Pocahontas	40.5	52.2	13.3	April 27	31.7	0.7
SS FFR-511W	40.0	52.2	12.8	April 29	32.7	0.8
DynaGro 424	39.9	50.3	13.6	May 6	34.5	1.2
Hoffman 14	39.7	57.0	13.0	May 2	29.2	0.7
Jackson	39.7	52.1	13.4	May 2	32.0	1.3
BT 87073-22	39.4	53.5	13.4	May 3	31.2	1.3
Terra SR 205	39.2	53.5	12.5	May 2	32.2	1.3
Roane	39.1	55.6	13.5	May 2	29.7	0.3
Fleming	39.0	53.0	12.9	April 25	29.3	0.7
MD 84010-10	38.9	51.2	13.2	April 29	33.7	1.5
Terra SR 211	38.7	54.4	13.7	May 2	33.8	1.2
Dynasty	38.7	54.0	13.6	May 4	33.8	1.0
SS FFR-Exp 332 (R)	38.6	55.0	12.9	May 5	34.3	0.5
SS FFR-523W (B)	38.3	51.2	13.6	April 28	28.7	2.0
Hoffman 57	38.3	55.5	13.6	April 28	31.8	1.0
Madison	38.1	53.2	13.0	April 28	32.0	1.8
DynaGro 426	37.9	56.2	13.1	May 3	35.2	1.5
Patterson	37.0	54.7	13.1	May 1	32.7	0.5
Hoffman 95	36.4	55.4	12.8	May 4	33.3	1.5
Pennmore	36.3	55.3	13.4	May 8	34.0	0.7
SS FFR-558W (R)	36.2	55.0	13.3	May 2	33.8	0.8
P91202RB1-3-3	36.0	52.5	13.0	May 1	30.5	0.2
Hyttest W9602	35.8	50.5	13.8	May 5	34.5	1.0
Freedom	35.5	50.8	13.2	May 3	33.5	2.2
Clemson 201	32.1	53.6	12.9	May 1	32.8	2.0
IL 90-6364	29.1	54.4	13.7	May 10	33.3	1.5
Location Means	43.0	53.3	13.2	April 30	32.5	1.1
Statewide Means	72.7	54.9	14.8	May 2	37.2	0.9
LSD (.05)	9.4	-----	-----	2 Days	2.0	0.8
CV (%)	13.6	-----	-----	-----	3.8	48.0

¹ Lodging based on a score of 0 - 10 where 0 = no lodging and 10 = flat. Lodging scores taken at Quantico and Queenstown only.

* This is a wheat/rye cross or triticale, not a wheat variety. Its standard test weight is like that of barley, 48 lbs/bu.

[§] Quantum brand entries in this test are hybrid wheats.

Some entries in this test appear twice under different seed treatments which are noted in parentheses following the entry name.

1998 Maryland State Wheat Variety Performance Trials at the Wye Res. & Edu. Center - Queenstown, MD.

Brand-Entry	Yield (bu/A)	Test Weight (lbs/bu)	Moisture Content @Harvest(%)	Heading Date	Height (in)	Lodging¹ (0-10)
Trical 498*	92.7	48.4	12.7	April 22	46.3	1.0
AgriPro Patton	87.3	55.8	15.7	April 29	40.5	0.3
Quantum 706 [§]	82.2	56.6	13.6	April 28	40.5	0.8
AgriPro Mason	81.6	56.8	15.1	April 27	40.7	1.0
NK Coker 9803	81.3	58.1	13.5	April 26	36.2	1.7
Quantum 7203 [§]	81.3	57.5	13.7	April 27	39.0	0.3
Pocahontas	80.8	55.6	16.3	April 27	37.7	0.7
Pioneer 25R57	80.1	55.5	15.3	April 29	39.0	0.0
Featherstone 520	79.9	56.8	13.3	April 27	37.0	1.7
NK Coker 9704	79.8	58.1	13.6	April 25	35.3	1.0
SS FFR-522	78.8	55.7	17.3	April 28	37.5	0.0
SS FFR-Exp 3409 (D)	78.7	55.2	15.5	April 30	36.3	0.0
SS FFR-Exp 3409 (R)	78.5	54.4	16.4	April 30	36.3	0.0
Pioneer 2552	78.1	58.7	13.7	April 30	36.2	0.0
GA-Gore	78.1	54.7	13.9	April 25	36.8	1.2
Roane	77.5	60.2	13.7	May 3	36.2	0.8
VA 94-54-479	76.2	55.7	13.7	April 27	34.7	1.3
Madison	75.7	55.7	15.7	April 27	40.0	1.5
Hyttest W9850	75.6	58.0	14.0	May 6	40.0	0.0
Roberts	75.5	54.4	16.3	April 26	37.2	1.8
Freedom	74.8	55.4	14.9	May 3	39.5	0.8
SS FFR-518W	74.0	56.2	13.8	April 26	36.7	1.7
Jackson	73.9	55.7	16.4	April 30	38.3	1.0
Quantum 708 [§]	73.8	57.1	13.4	May 1	41.0	0.7
Hoffman 37	73.6	54.7	16.2	April 29	38.7	0.0
Glory	73.5	56.6	13.4	May 1	37.2	0.3
NK Coker 9663	72.9	56.7	14.4	May 2	45.0	1.0
DynaGro 422	72.4	55.8	13.4	April 30	38.5	0.0
VA 96-52-71	71.5	55.0	13.7	April 27	34.0	0.3
Fleming	71.1	56.6	15.8	April 25	36.8	1.0
MD 88130-24	71.0	55.6	14.1	May 2	42.5	0.8
Hopewell	70.6	55.3	15.5	May 5	37.5	0.3
Hoffman 14	70.0	54.2	16.6	May 1	34.5	0.0
SS FFR-555W	69.9	54.0	16.4	May 1	38.3	0.7
Pioneer 2643	69.8	57.4	15.2	April 27	31.8	0.0
DynaGro 424	69.8	53.9	14.0	May 5	39.8	0.2
SS FFR-523W (D)	69.6	53.5	15.9	April 27	33.7	1.5

AgriPro Foster	69.3	57.3	15.6	May 1	37.5	0.5
Ernie	68.9	56.0	13.6	April 27	36.0	1.0
BT 87073-28	68.5	54.4	13.5	April 27	35.7	1.7
Catocin	67.6	56.7	15.0	May 2	42.5	1.7
NK Coker 9835	67.5	56.3	13.4	May 2	34.8	1.0
Terra SR 211	67.5	55.2	17.5	May 1	37.8	0.2
Hoffman 95	67.3	57.3	16.6	May 3	38.5	0.3
SS FFR-332 (R)	67.0	56.1	16.4	May 3	39.8	0.3
Hoffman 57	66.3	56.7	15.8	April 28	37.8	0.3
Clemson 201	66.2	57.6	14.2	May 1	41.3	2.2
Terra Exp 215	66.2	57.9	16.2	May 3	40.5	0.7
Hyttest W9602	66.1	53.1	14.0	May 6	38.7	0.5
MD 88122-22	65.9	58.0	14.0	April 28	38.3	1.8
DynaGro 426	65.6	59.6	14.2	May 3	42.0	1.0
Pennmore	65.5	58.9	14.6	May 8	42.5	0.7
Patterson	65.1	56.7	14.5	April 30	38.7	0.0
Hyttest W9875	64.4	53.3	13.8	May 6	37.5	0.7
OH 515-Exp	64.1	56.1	13.9	May 6	38.2	0.8
SS FFR-558W (R)	63.8	55.8	16.9	May 1	39.2	0.3
SS FFR-523W (B)	63.8	54.3	15.5	April 28	33.8	1.2
IL 90-6364	63.6	58.9	14.8	May 9	41.3	1.7
SS FFR-511W	63.3	53.8	16.7	April 28	39.7	0.7
MD 84010-10	61.0	54.0	13.9	May 2	39.0	0.2
P91202RB1-3-3	60.5	57.4	13.8	April 30	35.5	0.3
Terra SR 205	59.3	55.3	16.1	May 2	37.5	0.0
Dynasty	58.4	56.5	14.2	May 4	40.7	0.3
BT 87073-22	56.6	56.5	13.5	May 3	35.3	0.7
Location Means	71.4	56.0	14.8	April 30	38.2	0.7
Statewide Means	72.7	54.9	14.8	May 2	37.2	0.9
LSD (.05)	7.6	-----	-----	1 Day	1.5	0.8
CV (%)	6.6	-----	-----	-----	2.4	66.8

¹ Lodging based on a score of 0 - 10 where 0 = no lodging and 10 = flat. Lodging scores taken at Quantico and Queenstown only.

* This is a wheat/rye cross or triticale, not a wheat variety. Its standard test weight is like that of barley, 48 lbs/bu.

[§] Quantum brand entries in this test are hybrid wheats.

Some entries in this test appear twice under different seed treatments (noted in parentheses after the entry name).

1998 Maryland State Wheat Variety Performance Trials at Beltsville, MD.

Brand-Entry	Yield (bu/A)	Test Weight (lbs/bu)	Moisture Content @Harvest(%)	Heading Date	Height (in)
Trical 498*	81.3	47.7	12.6	April 28	43.2
SS FFR-518W	80.9	52.2	17.8	April 29	35.8
Pocahontas	80.5	52.1	15.8	April 30	36.0
AgriPro Patton	80.3	53.5	16.1	May 2	38.3
SS FFR-522	80.0	54.0	16.8	May 1	36.7
VA 94-54-479	77.1	55.5	16.4	April 29	32.8
DynaGro 424	76.5	51.8	17.4	May 7	37.8
Quantum 7203 ^s	76.5	53.6	16.9	May 1	35.3
SS FFR-Exp 3409 (R)	75.8	54.3	16.5	May 4	34.3
MD 84010-10	75.1	53.1	16.5	May 5	36.5
MD 88130-24	74.9	52.9	16.5	May 5	38.5
Hyttest W9850	74.9	55.7	17.0	May 6	38.7
Featherstone 520	74.6	51.8	15.9	April 30	35.8
Fleming	74.5	51.5	15.8	April 28	35.8
NK Coker 9663	74.2	55.9	17.1	May 3	44.8
SS FFR-Exp 3409 (D)	74.2	53.4	17.0	May 4	33.0
Quantum 708 ^s	74.0	52.7	16.6	May 3	38.7
Jackson	74.0	51.0	15.8	May 3	34.7
NK Coker 9803	73.1	52.7	16.2	April 29	35.0
Hoffman 14	72.6	53.2	16.4	May 5	32.3
MD 88122-22	72.0	54.3	16.5	May 1	39.0
Quantum 706 ^s	71.8	52.9	17.2	May 2	37.8
Catoctin	71.7	54.9	15.6	May 4	39.0
SS FFR-555W	71.5	53.6	17.2	May 4	36.0
Pioneer 2552	71.2	55.7	16.5	May 3	35.8
Hoffman 37	71.2	52.0	16.2	May 1	36.0
Hopewell	71.1	53.8	16.1	May 5	36.2
Pioneer 25R57	70.5	52.0	15.7	May 2	36.2
Freedom	70.5	53.7	15.9	May 4	37.5
Madison	69.8	52.9	16.1	May 6	38.7
AgriPro Mason	69.7	53.4	15.5	May 2	38.5
BT 87073-28	69.6	52.6	15.9	May 1	34.0
Terra Exp 215	69.0	56.0	16.4	May 4	38.2
Glory	69.0	53.3	17.4	May 3	34.7
NK Coker 9835	68.9	54.1	16.7	May 4	31.8
IL 90-6364	68.8	56.2	17.2	May 9	37.3
DynaGro 422	67.9	51.8	16.4	May 3	37.0

NK Coker 9704	67.7	50.8	16.8	April 29	33.8
Hoffman 57	67.3	55.0	16.1	May 2	37.2
Pioneer 2643	67.0	52.7	15.5	April 29	30.3
OH 515-Exp	66.8	54.1	17.1	May 7	33.7
Roberts	66.5	48.2	16.1	April 26	33.0
GA-Gore	66.3	49.1	17.5	April 27	33.5
Hoffman 95	66.2	56.3	16.6	May 5	36.2
Clemson 201	66.0	54.1	18.1	May 5	38.2
Pennmore	65.4	55.6	17.4	May 8	40.2
VA 96-52-71	65.3	50.8	17.3	May 2	31.7
Roane	64.7	57.1	17.4	May 5	33.2
AgriPro Foster	64.6	54.2	15.9	May 4	35.2
BT 87073-22	64.5	55.1	16.3	May 5	32.0
SS FFR-523W (B)	64.3	50.3	17.2	May 1	33.0
Dynasty	64.0	54.7	15.6	May 5	36.8
SS FFR-511W	64.0	51.2	17.2	May 2	37.2
P91202RB1-3-3	63.2	55.5	16.3	May 3	33.5
DynaGro 426	62.9	56.8	16.9	May 4	38.3
Patterson	62.0	54.2	15.6	May 2	36.8
Terra SR 211	61.8	54.3	16.7	May 3	33.7
Hytest W9875	60.7	50.6	17.3	May 7	36.3
SS FFR-558W (R)	60.4	55.6	17.6	May 4	36.0
SS FFR-Exp 332 (R)	59.9	55.3	16.5	May 6	35.3
Hytest W9602	58.1	50.4	17.4	May 8	36.7
Terra SR 205	58.0	52.6	16.2	May 3	35.3
SS FFR-523W (D)	57.9	47.2	17.5	April 30	33.0
Ernie	55.2	50.5	16.9	May 2	33.8
Location Means	69.2	53.2	16.5	May 3	36.0
Statewide Means	72.7	54.9	14.8	May 2	37.2
LSD (.05)	8.1	-----	-----	1 Day	1.6
CV (%)	7.2	-----	-----	24.3	2.8

* This is a wheat/rye cross or triticale, not a wheat variety. Its standard test weight is like that of barley, 48 lbs/bu.

§ Quantum brand entries in this test are hybrid wheats.

Some entries in the test appear twice under different seed treatments which are noted in parentheses following the entry name.

1998 Maryland State Wheat Variety Performance Trials at Clarksville, MD.

Brand-Entry	Yield (bu/A)	Test Weight (lbs/bu)	Moisture Content @Harvest(%)	Heading Date	Height (in)
SS FFR-Exp 3409 (D)	97.7	54.7	14.6	May 6	36.3
AgriPro Patton	96.3	57.2	13.3	May 4	39.0
NK Coker 9663	94.4	57.5	14.5	May 5	47.0
Freedom	93.4	55.4	13.7	May 6	40.2
SS FFR-522	93.1	57.6	14.4	May 2	39.3
Trical 498*	92.8	49.8	10.3	April 27	44.3
Hyttest W9850	92.2	57.1	13.9	May 8	40.2
Quantum 7203 [§]	91.8	56.8	13.2	May 2	39.5
Jackson	91.2	57.2	13.1	May 4	37.8
Pocahontas	90.9	55.6	13.2	May 1	37.3
Quantum 706 [§]	90.8	56.3	13.5	May 4	39.3
Pioneer 2643	90.4	57.4	12.7	May 1	33.0
VA 94-54-479	89.0	56.5	14.2	May 2	35.3
DynaGro 424	88.9	53.3	14.9	May 9	40.7
SS FFR-Exp 3409 (R)	88.9	55.1	14.7	May 6	34.5
AgriPro Foster	88.9	58.1	13.5	May 6	39.8
MD 88130-24	88.5	55.3	14.3	May 5	39.2
Hoffman 57	88.3	57.3	13.9	May 4	39.5
SS FFR-555W	87.9	55.0	14.9	May 7	37.0
NK Coker 9835	87.7	55.1	14.4	May 6	34.5
Terra Exp 215	87.1	58.2	14.2	May 6	42.2
AgriPro Mason	87.0	57.3	13.3	May 3	40.0
Pioneer 2552	85.8	57.4	13.8	May 4	36.5
Hoffman 37	85.7	53.4	14.0	May 2	38.5
Fleming	85.7	57.6	12.4	April 30	37.5
Hoffman 95	85.4	57.9	14.5	May 6	38.0
SS FFR-Exp 332 (R)	85.0	57.1	14.8	May 7	40.2
SS FFR-523W (B)	85.0	53.5	14.1	May 2	34.3
NK Coker 9803	84.8	58.0	14.2	April 30	36.7
MD 84010-10	84.8	54.1	14.4	May 4	38.0
Catocin	84.7	56.9	13.1	May 6	42.0
Hyttest W9602	84.5	53.5	13.5	May 8	40.2
Roane	84.2	59.3	13.7	May 6	36.3
Hopewell	84.1	55.4	13.6	May 8	38.0
Madison	83.9	56.3	13.5	May 4	40.8
Hyttest W9875	83.9	53.7	14.1	May 7	39.2
Pioneer 25R57	83.8	55.6	12.7	May 3	38.3

P91202RB1-3-3	83.1	56.6	14.0	May 5	36.5
Terra SR 205	82.8	54.7	14.1	May 6	37.5
Quantum 708 [§]	82.4	56.1	13.5	May 5	40.2
DynaGro 422	82.4	53.8	14.6	May 3	39.3
Hoffman 14	82.4	54.9	14.0	May 5	33.7
OH515-Exp	82.2	55.6	13.8	May 9	38.8
VA 96-52-71	81.8	54.7	12.9	May 2	35.5
Glory	81.4	56.2	13.4	May 5	36.3
SS FFR-558W (R)	81.0	57.1	14.5	May 5	39.0
DynaGro 426	81.0	58.6	14.5	May 6	41.8
Terra SR 211	80.9	55.5	13.9	May 4	36.7
SS FFR-511W	80.5	55.1	13.9	May 3	40.0
SS FFR-523W (D)	79.8	53.9	13.5	May 1	34.3
Roberts	79.5	54.5	13.1	April 30	36.7
NK Coker 9704	79.4	57.9	14.7	May 1	36.7
Pennmore	79.2	57.6	13.6	May 10	41.3
Dynasty	79.0	57.2	13.8	May 7	39.7
BT 87073-22	78.1	55.8	14.2	May 6	35.0
BT 87073-28	77.9	56.1	13.4	May 3	35.2
Clemson 201	77.7	57.1	13.6	May 4	41.7
Featherstone 520	77.7	55.8	14.5	May 3	37.0
Patterson	77.4	56.8	13.4	May 4	39.2
SS FFR-518W	77.2	55.2	13.2	April 30	35.0
GA-Gore	77.1	54.2	13.5	April 29	37.0
MD 88122-22	75.3	56.9	13.9	May 2	41.5
IL 90-6364	73.7	57.8	14.1	May 11	39.7
Ernie	73.0	54.4	12.7	May 2	35.3
Location Means	84.6	56.0	13.8	May 4	38.3
Statewide Means	72.7	54.9	14.8	May 2	37.2
LSD (.05)	9.3	-----	-----	1 Day	1.7
CV (%)	6.8	-----	-----	19.2	2.7

* This is a wheat/rye cross or triticale, not a wheat variety. Its standard test weight is like that of barley, 48 lbs/bu.

[§] Quantum brand entries in this test are hybrid wheats.

Some entries in the test appear twice under different seed treatments which are noted in parentheses following the entry name.

1998 Maryland State Wheat Variety Performance Trials at Keedysville, MD.

Brand-Entry	Yield (bu/A)	Test Weight (lbs/bu)	Moisture Content @Harvest (%)	Heading Date	Height (in)
Pioneer 2552	112.0	58.0	14.7	May 4	41.7
AgriPro Patton	109.1	56.2	15.0	May 4	42.7
SS FFR-Exp 3409 (R)	105.6	54.7	15.4	May 4	39.3
SS FFR-522	104.5	57.2	15.7	May 3	39.8
Hoffman 14	104.2	55.4	15.4	May 6	37.2
Quantum 7203 ^s	104.0	56.7	15.8	May 4	41.5
Quantum 706 ^s	101.7	55.2	16.8	May 4	42.3
Pocahontas	101.5	56.0	15.6	April 30	39.0
SS FFR-523W (D)	101.1	54.7	15.7	May 1	36.8
Pioneer 2643	101.1	56.6	14.8	May 2	41.0
Pioneer 25R57	101.0	55.6	14.9	May 4	42.8
Hoffman 95	100.7	58.2	15.6	May 6	42.7
Trical 498*	100.7	49.8	12.1	April 28	45.5
Hoffman 37	100.5	56.0	15.0	May 3	42.5
Quantum 708 ^s	100.3	56.3	15.9	May 6	43.8
SS FFR-523W (B)	100.1	54.4	15.3	May 2	36.3
SS FFR-Exp 3409 (D)	99.8	54.1	15.6	May 4	37.0
Hopewell	99.7	53.7	15.4	May 7	41.7
Roane	99.7	58.2	16.5	May 6	40.0
DynaGro 424	99.4	54.4	16.5	May 8	42.0
Glory	99.3	56.4	15.2	May 4	39.7
Pennmore	99.0	57.0	15.6	May 7	44.0
Catoctin	98.6	55.0	15.2	May 6	44.0
Jackson	98.5	56.3	15.6	May 5	41.2
VA 94-54-479	98.3	56.2	15.6	May 2	36.8
VA 96-52-71	97.8	54.0	15.4	May 1	38.7
IL 90-6364	97.0	57.1	15.9	May 9	41.8
Freedom	96.5	55.1	15.6	May 6	43.0
Terra Exp 215	96.4	57.6	15.3	May 5	43.2
AgriPro Mason	96.0	56.7	14.4	May 3	42.0
OH 515-Exp	95.9	56.3	15.6	May 8	39.7
SS FFR-518W	95.8	54.2	15.6	April 29	36.8
Madison	95.2	55.2	15.6	May 4	42.7
Hyttest W9850	95.1	56.0	15.8	May 6	41.8
Roberts	95.1	55.5	14.3	April 29	39.8
Hoffman 57	95.0	56.9	15.3	May 5	44.2
BT 87073-22	94.8	57.2	15.1	May 5	40.7

MD 88130-24	94.7	55.0	15.5	May 5	43.8
SS FFR-555W	94.5	55.1	16.4	May 6	39.3
MD 84010-10	94.5	54.3	15.2	May 4	39.8
NK Coker 9835	94.4	55.4	15.6	May 5	36.5
Featherstone 520	94.2	57.3	15.4	May 2	40.0
Patterson	94.1	56.5	15.2	May 3	44.0
Terra SR 211	92.4	56.0	15.3	May 3	39.3
SS FFR-Exp 332 (R)	92.0	56.7	15.9	May 7	41.5
NK Coker 9803	92.0	58.1	15.3	May 1	38.3
AgriPro Foster	91.9	57.3	15.2	May 6	42.3
DynaGro 422	91.8	54.7	15.9	May 4	41.7
Hyttest W9602	91.7	52.8	16.8	May 8	42.0
MD 88122-22	91.6	58.6	14.6	May 3	42.5
BT 87073-28	91.5	55.7	14.9	May 3	39.2
SS FFR-511W	91.3	54.4	15.6	May 3	41.3
Dynasty	91.3	55.5	16.1	May 7	42.2
Terra SR 205	89.9	55.6	14.7	May 4	40.8
NK Coker 9663	89.2	56.6	15.8	May 5	46.3
NK Coker 9704	89.2	58.4	15.4	May 1	38.3
Hyttest W9875	89.1	52.4	17.2	May 8	41.7
GA-Gore	86.2	55.3	14.9	April 30	39.2
SS FFR-558W (R)	85.2	56.3	15.8	May 5	42.3
Clemson 201	85.0	55.4	16.7	May 5	43.3
P91202RB1-3-3	84.1	56.6	14.8	May 6	38.2
Fleming	83.2	57.3	14.4	April 29	36.0
Ernie	79.6	56.2	14.8	May 3	37.7
DynaGro 426	78.7	57.8	16.2	May 6	42.5
Location Means	95.5	55.8	15.4	May 4	40.9
Statewide Means	72.7	54.9	14.8	May 2	37.2
LSD (.05)	11.9	-----	-----	1 Day	2.1
CV (%)	7.7	-----	-----	21.5	3.2

* This is a wheat/rye cross or triticale, not a wheat variety. Its standard test weight is like that of barley, 48 lbs/bu.

§ Quantum brand entries in this test are hybrid wheats.

Some entries in this test appear twice under different seed treatments which are noted in parentheses following the entry name.

1998 Maryland State Barley Variety Performance Trials Averaged over 4 Locations in Maryland - Quantico, Queenstown, Beltsville, and Keedysville.

Brand-Entry	Yield (bu/A)	Test Weight (lbs/bu)	Moisture Content @Harvest(%)	Heading Date	Height (in)	Lodging (0-10)*	Beards
Starling	86.9	44.4	14.1	April 25	39.5	4.4	None
Clemson 100	85.9	47.3	13.7	April 26	41.6	1.8	On Tip
Nomini	85.7	45.0	14.7	April 20	38.8	3.9	None
Pennco	85.4	45.7	13.6	April 27	40.4	3.6	None
VA 96-44-310	85.3	42.9	14.6	April 25	36.0	5.2	None
Wysor	85.1	45.4	14.0	April 24	40.7	5.3	None
MD 811183-28	85.0	45.8	14.2	April 29	36.7	2.5	Long
VA 95-41-33	84.5	46.2	14.3	April 22	37.2	4.6	None
VA 96-41-26	83.6	43.2	14.1	April 22	35.9	4.7	None
VA 96-44-301	82.8	46.6	13.9	April 22	31.6	4.6	Short
MD 881007-6	82.1	45.0	14.6	April 23	35.0	3.3	None
Callao	81.8	48.0	14.0	April 22	30.6	5.9	Long
MD 851053-26	81.7	43.2	14.0	April 21	38.2	4.0	On Tip
MD 841006-55	81.7	46.2	14.7	April 23	38.1	2.4	None
GA-Acton	81.3	44.5	16.1	April 27	38.5	1.9	Long
VA 96-44-178	81.1	44.1	14.1	April 22	36.4	3.8	None
VA 92-44-279	80.7	45.4	13.9	April 22	34.2	5.5	Short
MD 861129-41	80.4	44.8	14.1	April 26	39.4	4.8	None
GA-Luttrell	79.7	44.9	14.2	April 20	34.6	3.3	Long
Pennbar 66	79.7	46.9	15.7	April 29	38.9	3.0	Long
VA 96-44-134	79.0	46.4	14.2	April 24	36.4	2.5	None
VA 96-44-223	78.6	43.7	14.5	April 26	33.9	3.7	None
VA 96-44-211	77.9	44.5	14.4	April 24	36.6	4.8	None
VA 96-44-212	77.6	45.7	14.0	April 25	36.3	2.9	None
MD 881007-27	77.5	43.2	14.1	April 25	36.2	3.2	None
VA 94-42-81	77.3	44.7	14.2	April 24	36.3	4.7	None
Pamunkey	71.9	49.0	13.4	April 21	35.8	4.7	Long
Barsoy	59.8	47.1	13.9	April 18	33.6	4.2	Long
Means	80.7	45.3	14.3	April 24	36.7	3.9	-----
LSD (.05)	8.5	0.8	0.8	1 Day	1.4	1.0	-----
CV (%)	13.1	2.2	6.9	-----	4.6	32.1	-----

* Lodging based on a score of 0 - 10 where 0 = no lodging and 10 = flat.

Relative yield of barley entries compared to the mean yield of all entries at each location and throughout the state in 1998.

	State	Quantico	Queenstown	Beltsville	Keedysville
Brand-Entry	-----Relative Yield (%)-----				
	--				
Starling	107.7*	105.5*	104.6*	106.8*	113.2*
Clemson 100	106.4*	108.0*	96.4	101.7*	118.3*
Nomini	106.2*	86.9*	114.2*	118.0*	106.9*
Pennco	105.8*	111.5*	100.0	114.1*	99.8*
VA 96-44-310	105.7*	104.7*	96.8	111.9*	110.0*
Wysor	105.4*	103.6*	107.8*	96.7	111.7*
MD 811183-28	105.3*	111.6*	99.2	101.7*	108.2*
VA 95-41-33	104.7*	89.6*	113.8*	99.6*	114.2*
VA 96-41-26	103.6*	110.6*	97.5	95.2	109.3*
VA 96-44-301	102.6*	95.4*	99.8	118.4*	99.3*
MD 881007-6	101.7*	92.1*	104.8*	100.0*	109.1*
Callao	101.4*	96.6*	117.9*	110.1*	83.3
MD 851053-26	101.2*	94.7*	100.8	101.1*	107.9*
MD 841006-55	101.2*	102.3*	96.0	100.7*	105.3*
GA-Acton	100.7*	105.2*	96.9	117.3*	87.0
VA 96-44-178	100.5*	101.7*	105.4*	104.9*	91.2
VA 92-44-279	100.0*	93.2*	109.3*	94.5	102.0*
MD 861129-41	99.6*	101.0*	98.7	100.9*	98.4*
GA-Luttrell	98.8*	100.8*	98.6	110.8*	87.6
Pennbar 66	98.8*	113.3*	98.2	88.6	93.8
VA 96-44-134	97.9*	117.3*	90.9	87.9	94.4
VA 96-44-223	97.4*	104.7*	90.6	95.5	98.7*
VA 96-44-211	96.5	93.8*	107.0*	97.3	88.4
VA 96-44-212	96.1	101.5*	99.4	87.5	95.1
MD 881007-27	96.0	91.1*	87.8	101.0*	104.6*
VA 94-42-81	95.8	99.9*	95.3	80.5	104.8*
Pamunkey	89.1	83.8*	95.3*	92.8	85.2
Barsoy	74.1	80.4*	76.3	65.8	72.6
Loc. Mean Yield (bu/A)	80.7	82.0	83.7	69.4	87.7

* The relative yields of those entries with an asterisk are not significantly different (LSD .05) from the highest yielding entry in that location.

Relative yields are expressed as the percent of the mean yield of all entries at each location. Therefore, an entry with a relative yield that is consistently greater than 100 is an entry that consistently yields higher than the mean yield of all of the entries at that location.

Three year average yield performance of barley entries in Maryland, 1996-1998.

Entry	Statewide		East of the Bay		West of the Bay	
	bu/A	Rank	bu/A	Rank	bu/A	Rank
Nomini	113.7	1	98.6	8	128.3	1
MD 811183-28	113.3	2	102.5	3	123.6	2
Pennco	112.9	3	105.2	1	120.2	5
MD 861129-41	111.4	4	101.2	5	122.1	4
Wysor	110.5	5	102.6	2	118.0	9
Starling	110.3	6	101.9	4	118.4	7
MD 841006-55	110.1	7	97.2	9	122.9	3
GA-Acton	108.9	8	99.9	6	118.3	8
MD 851053-26	107.7	9	95.1	12	120.2	5
Pennbar 66	101.9	10	99.5	7	104.2	10
GA-Luttrell	99.7	11	96.6	10	102.4	11
Callao	98.3	12	96.6	10	99.6	13
Barsoy	94.9	13	89.0	13	100.0	12
Pamunkey	91.3	14	87.4	14	94.8	14

1998 Maryland State Barley Variety Performance Trials at Poplar Hill - Quantico, MD.

Entry	Yield (bu/A)	Test Weight (lbs/bu)	Moisture Content @Harvest(%)	Heading Date	Height (in)	Lodging (0-10)*
VA 96-44-134	96.2	47.9	14.2	April 22	34.0	0.7
Pennbar 66	92.9	48.3	14.9	April 26	37.3	2.0
MD 811183-28	91.5	47.4	15.5	April 29	33.8	0.5
Pennco	91.4	47.0	12.8	April 26	38.3	1.0
VA 96-41-26	90.7	44.2	13.3	April 20	32.5	1.2
Clemson 100	88.6	48.5	12.8	April 25	37.7	1.5
Starling	86.5	46.2	13.7	April 24	37.5	2.2
GA-Acton	86.3	46.1	21.5	April 28	36.3	0.5
VA 96-44-223	85.9	44.5	14.9	April 26	30.7	0.3
VA 96-44-310	85.9	43.6	14.8	April 24	33.5	4.0
Wysor	85.0	47.2	13.7	April 24	38.5	3.2
MD 841006-55	83.9	46.7	16.5	April 22	36.3	1.8
VA 96-44-178	83.4	44.8	13.3	April 20	33.8	1.7
VA 96-44-212	83.2	46.0	13.8	April 25	32.8	1.5
MD 861129-41	82.8	48.7	13.1	April 25	37.5	2.3
GA-Luttrell	82.7	44.5	16.1	April 19	29.0	1.0
VA 94-42-81	81.9	46.2	14.2	April 23	33.8	2.2
Callao	79.2	48.9	13.0	April 21	26.3	5.5
VA 96-44-301	78.2	47.0	14.2	April 21	26.5	2.8
MD 851053-26	77.7	43.6	13.5	April 19	35.2	2.3
VA 96-44-211	76.9	45.1	14.5	April 22	34.0	4.2
VA 92-44-279	76.4	47.3	13.0	April 20	31.3	5.3
MD 881007-6	75.5	44.7	15.6	April 25	32.5	2.3
MD 881007-27	74.7	44.7	13.4	April 22	33.7	3.0
VA 95-41-33	73.5	46.8	14.8	April 20	34.7	2.5
Nomini	71.3	44.1	17.1	April 18	34.5	2.5
Pamunkey	68.7	50.3	12.8	April 19	31.7	4.7
Barsoy	65.9	50.2	13.3	April 16	27.8	2.0
Location Means	82.0	46.4	14.4	April 23	33.6	2.3
Statewide Means	80.7	45.3	14.3	April 24	36.7	3.9
LSD (.05)	NS	-----	-----	3 Days	3.0 in	1.2
CV (%)	13.4	-----	-----	-----	5.5	31.5

* Lodging based on a score of 0 - 10 where 0 = no lodging and 10 = flat.

**1998 Maryland State Barley Variety Trials at the Wye Res. & Edu. Center - Queenstown, MD.
Preliminary Results.**

Entry	Yield (bu/A)	Test Weight (lbs/bu)	Moisture Content @Harvest(%)	Heading Date	Height (in)	Lodging (0-10)*
Callao	98.7	51.1	12.6	April 28	32.7	2.5
Nomini	95.6	48.7	13.0	April 23	40.0	1.0
VA 95-41-33	95.3	47.7	12.9	April 26	39.7	2.8
VA 92-44-279	91.5	47.5	12.3	April 25	36.3	2.5
Wysor	90.2	45.9	12.6	April 28	42.5	4.3
VA 96-44-211	89.6	46.5	13.5	April 27	39.3	1.2
VA 96-44-178	88.2	46.6	13.2	April 26	37.0	0.8
MD 881007-6	87.7	48.2	12.8	April 26	36.7	1.0
Starling	87.6	45.5	13.0	April 28	39.3	3.0
MD 851053-26	84.4	46.2	12.5	April 26	38.5	1.0
Pennco	83.7	47.8	12.5	May 1	39.7	0.3
VA 96-44-301	83.5	48.6	12.3	April 27	32.7	1.0
VA 96-44-212	83.2	47.8	13.1	May 1	36.5	0.5
MD 811183-28	83.0	47.7	12.6	May 5	36.8	0.2
MD 861129-41	82.6	46.1	12.6	April 28	40.2	2.8
GA-Luttrell	82.5	49.2	12.3	April 23	38.0	0.7
Pennbar 66	82.2	48.9	18.4	May 5	39.3	0.2
VA 96-41-26	81.6	45.7	12.9	April 26	38.2	3.8
GA-Acton	81.1	45.9	13.9	April 29	39.2	0.5
VA 96-44-310	81.0	43.9	12.8	April 29	37.2	4.2
Clemson 100	80.7	48.6	12.8	May 1	43.2	0.0
MD 841006-55	80.4	49.7	12.8	April 28	38.5	1.5
Pamunkey	79.8	50.7	12.4	April 26	37.2	1.7
VA 94-42-81	79.8	46.1	12.4	April 27	36.0	3.0
VA 96-44-134	76.1	48.3	12.8	April 30	36.7	0.3
VA 96-44-223	75.8	45.7	13.1	April 30	35.3	2.7
MD 881007-27	73.5	45.4	12.9	May 1	35.8	0.0
Barsoy	63.9	49.1	12.7	April 20	34.8	2.8
Location Means	83.7	47.5	13.0	April 28	37.7	1.6
LSD (.05)	12.8 bu	-----	-----	4 Days	2.6 in	2.3
CV (%)	9.3	-----	-----	-----	4.2	-----

* Lodging based on a score of 0 - 10 where 0 = no lodging and 10 = flat.

1998 Maryland State Barley Variety Performance Trials at Beltsville, MD.

Brand-Entry	Yield (bu/A)	Test Weight (lbs/bu)	Moisture Content @Harvest (%)	Heading Date	Height (in)	Lodging (0-10)*
VA 96-44-301	82.2	44.9	14.1	April 19	31.0	8.2
Nomini	81.9	44.5	13.6	April 18	38.0	6.3
GA-Acton	81.4	42.7	14.1	April 24	36.5	2.5
Pennco	79.2	45.2	13.9	April 24	40.5	6.5
VA 96-44-310	77.7	41.4	15.1	April 23	34.2	6.2
GA-Luttrell	76.9	43.2	13.7	April 18	32.8	5.7
Callao	76.4	47.4	14.8	April 19	29.2	8.5
Starling	74.1	44.2	14.3	April 25	40.2	6.7
VA 96-44-178	72.8	42.3	14.7	April 18	35.0	7.3
MD 811183-28	70.6	42.9	13.8	April 25	35.7	3.8
Clemson 100	70.6	45.3	14.5	April 23	39.5	2.2
MD 851053-26	70.2	43.1	14.3	April 18	38.2	6.7
MD 881007-27	70.1	40.1	14.6	April 22	35.3	4.2
MD 861129-41	70.0	42.6	14.8	April 25	38.2	7.0
MD 841006-55	69.9	42.9	14.5	April 19	36.5	2.8
MD 881007-6	69.4	44.5	14.4	April 19	35.5	5.3
VA 95-41-33	69.1	45.0	14.4	April 19	33.8	7.3
VA 96-44-211	67.5	43.9	14.1	April 20	35.0	6.3
Wysor	67.1	45.3	14.1	April 22	38.8	7.5
VA 96-44-223	66.3	41.3	14.8	April 23	32.5	6.3
VA 96-41-26	66.1	41.4	14.6	April 19	33.8	7.0
VA 92-44-279	65.6	44.0	15.1	April 19	32.3	8.0
Pamunkey	64.4	48.2	14.0	April 17	34.8	6.8
Pennbar 66	61.5	45.0	14.6	April 25	37.0	4.3
VA 96-44-134	61.0	43.4	14.4	April 19	34.7	4.5
VA 96-44-212	60.7	44.8	13.8	April 21	36.3	5.3
VA 94-42-81	55.9	43.6	14.9	April 21	34.7	7.7
Barsoy	45.7	43.1	14.6	April 18	32.0	6.2
Location Means	69.4	43.8	14.4	April 21	35.4	6.0
Statewide Means	80.7	45.3	14.3	April 24	36.7	3.9
LSD (.05)	14.6	-----	-----	2 Days	2.0	1.9
CV (%)	12.8	-----	-----	-----	3.5	19.5

* Lodging based on a score of 0 - 10 where 0 = no lodging and 10 = flat.

1998 Maryland State Barley Variety Performance Trials at Keedysville, MD.

Brand-Entry	Yield (bu/A)	Test Weight (lbs/bu)	Moisture Content @Harvest (%)	Heading Date	Height (in)	Lodging (0-10)*
Clemson 100	103.8	46.7	14.6	April 26	46.0	3.5
VA 95-41-33	100.2	45.3	15.3	April 21	40.7	5.8
Starling	99.3	41.7	15.5	April 25	41.2	6.0
Wysor	98.0	43.2	15.6	April 23	42.8	6.3
VA 96-44-310	96.5	42.6	15.6	April 26	39.3	6.3
VA 96-41-26	95.9	41.5	15.6	April 21	39.0	6.7
MD 881007-6	95.7	42.6	15.5	April 22	35.5	4.5
MD 811183-28	94.9	45.1	15.0	April 28	40.5	5.7
MD 851053-26	94.6	40.0	15.6	April 22	40.8	6.0
Nomini	93.8	42.6	15.3	April 20	42.8	5.8
MD 841006-55	92.4	45.4	15.0	April 24	41.2	3.3
VA 94-42-81	91.9	42.9	15.3	April 23	40.7	5.8
MD 881007-27	91.7	42.5	15.7	April 24	40.0	5.7
VA 92-44-279	89.5	42.9	15.2	April 22	36.7	6.3
Pennco	87.5	43.0	15.3	April 27	43.0	6.7
VA 96-44-301	87.1	45.9	15.2	April 19	36.3	6.5
VA 96-44-223	86.6	43.3	15.4	April 27	37.3	5.7
MD 861129-41	86.3	41.9	15.9	April 25	41.8	7.0
VA 96-44-212	83.4	44.2	15.5	April 25	39.7	4.5
VA 96-44-134	82.8	46.1	15.4	April 24	40.2	4.7
Pennbar 66	82.3	45.3	15.0	April 29	42.2	5.5
VA 96-44-178	80.0	42.6	15.4	April 22	40.0	5.5
VA 96-44-211	77.5	42.6	15.5	April 25	38.2	7.7
GA-Luttrell	76.8	42.9	14.8	April 19	38.7	6.0
GA-Acton	76.3	43.3	15.1	April 26	42.2	4.3
Pamunkey	74.7	46.8	14.6	April 21	39.5	5.5
Callao	73.1	44.8	15.6	April 20	34.3	7.2
Barsoy	63.7	46.2	14.9	April 19	39.7	6.0
Location Means	87.7	43.7	15.3	April 23	40.0	5.7
Statewide Means	80.7	45.3	14.3	April 24	36.7	3.9
LSD (.05)	18.4	-----	-----	1 Day	2.4	1.2
CV (%)	12.8	-----	-----	-----	3.6	12.7

* Lodging based on a score of 0 - 10 where 0 = no lodging and 10 = flat.