

Revised 1995

SMALL GRAINS IN 1995

The following are the small grain variety recommendations for Virginia in 1995. The recommendations are based on the agronomic performance in barley and wheat variety tests conducted by the Research and Extension Divisions of Virginia Tech in the various agricultural regions of the state.

SMALL GRAIN VARIETIES RECOMMENDED			
Arranged in Order of Maturity			
COASTAL PLAIN	PIEDMONT		WEST OF BLUE RIDGE
	South of James River	North of James River	
<i>Barley</i>			
Nomini ^a	Nomini	Nomini	Nomini
Pamunkey ^{lb}	Pamunkey	Pamunkey	Pamunkey
Wysor ^{a*}	Wysor	Wysor	Wysor
Starling ^a	Starling	Starling	Starling
Pennco ^{a*}	Pennco	Pennco	Pennco
Mollybloom ^{sb}	Mollybloom	-----	-----
<i>Wheat</i>			
GA-Gore	GA-Gore	-----	-----
Hickory	Hickory	Hickory	Hickory
Pioneer Brand 2684	Pioneer Brand 2684	Pioneer Brand 2684	Pioneer Brand 2684
Pioneer Brand 2580	Pioneer Brand 2580	Pioneer Brand 2580	Pioneer Brand 2580
NK Coker 9803	NK Coker 9803	NK Coker 9803	NK Coker 9803
FFR 511W [*]	FFR 511W	FFR 511W	FFR 511W
Madison	Madison	Madison	Madison
Pioneer Brand 2643	Pioneer Brand 2643	Pioneer Brand 2643	-----
NK-Coker 9835	NK-Coker 9835	-----	-----
Saluda [†]	Saluda [†]	Saluda [†]	Saluda [†]
Pioneer Brand 2548	Pioneer Brand 2548	Pioneer Brand 2548	Pioneer Brand 2548
Jackson	Jackson	Jackson	Jackson
FFR 555W	FFR 555W	FFR 555W	FFR 555W
Wakefield [*]	Wakefield [*]	Wakefield [*]	Wakefield [*]
†To be dropped from the recommended list in all regions after 1995.			

*These varieties have good yield potential but are susceptible to powdery mildew and must be scouted to determine if a fungicide is needed.

^aAwnleted (no beards).

^{lb}Long beards.

^{sb}Short beards.

COMMERCIAL BARLEY ENTRIES

Boone, Mollybloom and Mulligan - North Carolina Crop Improvement Association, 3709 Hillsborough Street, Raleigh, NC 27607.

Callao, Nomini, Pamunkey, Starling and Wysor - Virginia Crop Improvement Assoc., 9142 Atlee Station Road, Mechanicsville, VA 23111.

Pennbar 66 - Dept. of Agronomy, Pennsylvania State University, University Park, PA 16802.

Venus, GA-Everett - University of Georgia releases, College of Agriculture, Athens, GA 30602.

COMMERCIAL WHEAT ENTRIES

NK Coker 916, NK Coker 9803, NK Coker 9835, NK Coker 9543, NK Coker 9904, and NK Coker 9474-B - Northrup King-Coker, Pedigreed Seed Co., Box 340, Hartsville, SC 29550.

Pioneer Brand 2580, Pioneer Brand 2548, Pioneer Brand 2566, Pioneer Brand 2684 and Pioneer XW522 -Pioneer Hibred International, Inc., Eastern Division, Tipton, IN 47072.

FFR 555W, FFR 511W, FFR 568W, FFR 525W, and FFR EXP 723-B - Southern States Cooperative, PO Box 26234, Richmond, VA 23260.

Clemens, Elkhart, Hickory, Sawyer, and Shiloh - Agripro Seeds, Inc., P.O. Box 2962, Shawnee Mission, KS 66201-1362.

Hoffman EXP 131 and Hoffman 89-B - Hoffman Seeds, Inc., 144 Main Street, Landisville, PA 17538.

Massey, Saluda, Madison, Wakefield and Jackson - Virginia Crop Improvement Assoc., 9142 Atlee Station Road, Mechanicsville, VA 23111.

GA-Gore, GA-Dozier, and Morey - University of Georgia releases, College of Agriculture, Athens, GA 30602. Certified seed of GA-Gore is being produced in Virginia.

Succession - Beachley-Hardy Seed Company, 454 Railroad Avenue, Shiremanstown, PA 17011.

Trical XT498 (triticale) - Resource Seeds, Inc., 2355 Rice Pike, Union, KY 41091.

Appreciation is expressed to the Virginia Small Grains Check-Off Program for financial support of this research and Extension variety

evaluation program.

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INTRODUCTION

The attached tables present results from barley and what varietal tests conducted in Virginia in 1994-95. Yield data are given for individual locations; yield and other performance characteristics are averaged over the number of locations indicated. Performance of a given variety often varies widely over locations and years which makes multiple location-year averages a more valid indication of expected performance than data from a single year or location. All tests in 1994-95 were grown in seven inch rows planted at 20 seeds per row foot. The plots were trimmed during the winter to 9 feet in length. Details about management practices for barley and wheat are included in the bulletin. The only pesticide used at most locations was Harmony Extra®.

Appreciation is expressed to Pioneer Hibred International, Northrup King-Coker, Southern States, Agri-Pro Seeds, Hoffman Seeds, Beachley-Hardy Seed Co., Resource Seeds, Inc., and the Virginia Small Grains Check-Off Board for their financial support of the variety testing program at Virginia Tech.

Virginia's climate makes it possible to produce 100+ bu/acre field yields of well-managed barley most seasons. The better barley varieties entered in Virginia Tech tests have averaged above 110 bu/acre over five locations over three years. The average yield of some varieties has exceeded 130 bu/acre over the past three years at Warsaw. Variety selection is one of the most important steps toward achieving high yields in an economic and environmentally sound manner.

BARLEY VARIETIES

One of the biggest problems reducing the profitability of barley in Virginia is the continued LOW price. Check-off supported research is being conducted at Virginia Tech to evaluate the feed value of the newer varieties of barley. This information will be beneficial toward the objective of developing barley varieties that have higher market value than current varieties. The test weight of some of the newer varieties is excellent! Excellent test weight indicates plump kernels. The new Callao barley has an especially "pretty" kernel.

The importance of Virginia's barley breeding program to the state and region is evident in the yield results. Nine of the top ten yielding lines in 1994-95 were Virginia Tech varieties or lines. Four of these lines were selections advanced to the state test for the first time in 1994.

Nomini continues to demonstrate its tremendous yield potential. It produced the highest yield of released varieties in 1994-95 and over the three year average at all locations (119 bu/acre). Nomini is early, has moderate test weight, and good disease resistance.

Starling, a relatively new Virginia Tech release, is equal to Nomini in yield, but has less than average test weight. Starling has the best disease resistance and "stay green" available in any barley. Starling is about three days later than Nomini, and thus should make an excellent companion barley for those wishing to grow barley for silage. It was added to the recommended list statewide but will likely show its maximum benefit in the piedmont and mountainous areas. Seed of Starling barley should be available to producers in adequate quantities for Fall 1995 planting.

GA-Everett is a new University of Georgia release that has yielded well the past two years, but it has less than average test weight and is about the same maturity as Nomini. GA-Everett has good disease resistance. We will continue to evaluate the effect of low test weight barley on markets before we add GA-Everett to the recommended variety list.

Pamunkey, a relatively new Virginia Tech release, had a relatively poor year in 1994-95 and yielded less than average. Pamunkey has long beards that can be difficult to remove in humid weather until the crop is "truly mature". Some producers had problems in the poor weather harvest season of 1995 getting the combine to adequately remove the beards when harvesting as soon as the grain moisture reached 14 percent. Pamunkey does have excellent test weight.

Callao barley will be released to Virginia seedsmen for the first time this Fall. It has the BEST test weight of all barley varieties tested. The test weight of Callao was over 50 lbs/bu at four of the six test locations. Callao barley also has one of the most plump, prettiest kernels ever produced east of the Mississippi. This variety will hopefully help develop new and expanded markets for barley. Callao has yielded well at all locations over years but has been about 5 bu/acre less than Nomini. Callao is about one to two days earlier than Nomini, shorter than average and lodges about like Boone. Callao will require the application of Cerone® to improve standability to achieve its true yield potential.

Mollybloom and Mulligan continue to perform similar to Boone under Virginia conditions. They have yielded less than average, lodged more than average and are relatively late.

The standability of all released barley varieties is greatly improved with the application of Cerone®. Consideration of Cerone® application is recommended when all current barley varieties are fertilized to develop in excess of 100 bu/acre yields. Close cooperation between the barley breeding programs in Virginia and North Carolina and greater communication with current and potential barley markets can hopefully develop a bright future for a premium quality feed grain.

WHEAT VARIETIES

The 1994-1995 wheat crop in Virginia was in excellent condition until varying amounts of rainfall reduced test weight at some locations and caused excessive lodging at Orange and Blacksburg. Average yield exceeded 80 bu/acre at Painter and Warsaw and 70 bu/acre at Blackstone, Holland, and Loudoun. Variety selection is important! Some of the newly released varieties averaged about 20 bu/acre more than some other released varieties. Note that the varieties are arranged by descending grain yield.

Pioneer Brand 2580-B, Jackson, and Pioneer Brand 2684-B averaged over 80 bu/acre statewide in 1995 and all exceeded 100 bu/acre at Painter. Pioneer 2580-B has yielded well each of the past three seasons. It has moderate test weight. Jackson, a new Virginia Tech release, has good test weight, and good disease resistance. Jackson is slightly taller than average and lodges slightly more than average. Jackson is a variety that will produce good yields and still be standing at moderate nitrogen levels or produce excellent yields with more intensive management of nitrogen and use of Cerone®. Pioneer 2684-B has produced average or above average yields each of the past three years at all Virginia Tech tests. It is relatively early, has excellent test weight, excellent standability and good disease resistance.

The next highest yielding released variety of wheat in 1995 was Pioneer Brand 2643-B (79 bu/acre). It was equal in yield to the best released varieties in 1994 and has yielded well at all locations each of the past two seasons. The most exciting attribute of P-2643-B is its short (4 inches less than average height) stiff straw. It also has good disease resistance. This variety will likely perform well under intensive management where standability and excessive straw can be problems.

Varieties averaging 75-79 bu/acre in the statewide tests include Pioneer Brand 2548-B, NK-Coker 9835, Wakefield-B, Madison, Coker 9803, Ga-Gore, FFR555-B, Hickory, Elkhart, and Coker 9904. NK Coker 9835 is shorter than average but tends to lodge more than average and has average test weight. Wakefield is taller than average but has good standability. Wakefield is more susceptible to several leaf diseases and Barley Yellow Dwarf (BYD) and thus should be grown under conditions where these diseases are not major threats. Hickory was added to the recommended list because it has yielded over years and locations similar to GA-Gore and Madison which are on the list. Hickory has high test weight.

Madison, a Virginia Tech release, has excellent visual field appeal, good test weight and is moderately early. NK Coker 9803 continues to show its excellent test weight and generally good disease resistance. It is a good wheat to grow in areas where meeting milling quality standards is important to price. Ga-Gore is early, has average test weight, and generally good disease resistance. It lodges more than average when pushed to higher yield levels. FFR555W-B is still an excellent wheat but other varieties are matching its yield potential. FFR 555W-B has excellent standability and average test weight. Hickory, an AgriPro release, is early, has good test weight and moderate resistance to leaf diseases such as powdery mildew. Elkhart, a new release by AgriPro, has excellent test weight and standability. It is average in heading date and slightly taller than average.

Other new varieties tested included Succession from Beachley-Hardy which had the top test weight average of 59.1 pounds/bushel. Hoffman 89-B was a close second in test weight with an average over locations of 59.0 pounds/bushel. Succession is medium maturity and slightly taller than average.

Other new varieties tested included Clemens, Sawyer, and Shiloh from AgriPro, Morey and GA-Dozier from the University of Georgia, and Coker 9474-B from NK Coker.

The two triticale entries (Trical XT498 and NC 91-1085) in the test yielded better than average at most locations and over locations. Trical XT498 has produced the top average yield over all locations the past two years (86 bu/acre). Triticales are only sold for feed, but they were tested here for comparison and convenience.

SUMMARY OF BARLEY MANAGEMENT PRACTICES FOR 1994-1995

Blacksburg - Planted September 27, 1994. Preplant fertilizer was 25 lbs N, 60 lbs P₂O₅, and 60 lbs K₂O. Glean® was applied at 0.25 oz/A in November, 1994. Sixty lbs N/A were applied March 28, 1995. Harvest occurred on June 16, 1995.

Blackstone - Planted November 4, 1994. Preplant fertilizer was 500 lbs/A 5-10-10 on October 31, 1994. Thirty lbs liquid N + 12 lb S/A were applied January 10, 1995. On February 22, 1995, 0.5 oz Harmony Extra® + 0.25% X-77® were applied. Liquid N was applied at 75 lbs/A on March 13, 1995. One lb Sevin 80S® was applied on April 20, 1995 for control of cereal leaf beetle. Harvest occurred on June 8, 1995.

Holland - Planted October 20, 1994. Preplant fertilizer was 30 lbs N + 50 lbs P₂O₅ + 100 lbs K₂O broadcast October 19, 1994. Sixty lbs N/A and 0.5 oz Harmony Extra® were applied January 11, 1995. Sixty units N/A were applied March 20, 1995. Sevin XLR Plus® was applied at 2 pts/A April 18, 1995 for control of cereal leaf beetle. Harvest occurred June 8-9, 1995.

Painter - Planted October 19, 1994. Lime was applied at 950 lbs/A October 3, 1994. Fall fertilization was 300 lbs/A 10-0-27 October 13, 1994. Harmony Extra® was applied at 0.33 oz/A November 16, 1994. Eighty lbs N using 30% and 0.5 oz/A Harmony Extra® were applied March 15, 1995. Harvest occurred on June 9, 1995.

Warsaw - Planted October 11, 1994. Preplant fertilizer was 30 lbs N, 60 lbs P₂O₅, 80 lbs K₂O and 15 lbs S/A. Forty lbs N and 0.6 oz/A Harmony Extra® were applied February 7, 1995. Forty lbs N and 1.5 pts Buctril® were applied March 20, 1995. Aerial spraying for control of cereal leaf beetle using 1 qt/A Sevin XLR Plus® was performed May 29, 1995. Harvest occurred on June 5, 1995.

Orange - Planted October 12, 1994. Preplant fertilizer was 600 lbs 5-10-10 applied October 3, 1994. Emergence occurred on October 19, 1994. Forty lbs N/A were applied March 13 and 45 lbs were applied April 7, 1995. Harvest occurred on June 9 and 15, 1995.

SUMMARY OF WHEAT MANAGEMENT PRACTICES FOR 1994-1995

Blacksburg - Planted September 27, 1994. Preplant fertilizer was 25 lbs N, 60 lbs P₂O₅, and 60 lbs K₂O. Glean® was applied at 0.25 oz/A in November, 1994. Sixty lbs N/A were applied March 28, 1995. Harvest occurred on July 10, 1995.

Warsaw - Planted October 11, 1994. Preplant fertilizer was 30 lbs N, 60 lbs P₂O₅, 80 lbs K₂O and 15 lbs S/A. Sixty lbs N and 0.6 oz/A Harmony Extra® were applied February 7, 1995. Forty lbs N and 1.5 pts Buctril® were applied March 20, 1995. Aerial spraying for control of cereal leaf beetle using 1 qt/A Sevin XLR Plus® was performed May 29, 1995. Harvest occurred on June 19, 1995.

Painter - Planted October 19, 1994. Lime was applied at 950 lbs/A October 3, 1994. Preplant fertilizer was 300 lbs/A 10-0-27 October 13, 1994. Harmony Extra® was applied at 0.33 oz/A November 16, 1994. One hundred lbs N using 30% and 0.5 oz/A Harmony Extra® were applied March 15, 1995. Harvest was on June 16, 1995.

Holland - Planted October 20, 1994. Preplant fertilizer was 30 lbs N + 50 lbs P₂O₅ + 100 lbs K₂O broadcast October 19, 1994. Sixty lbs N/A and 0.5 oz Harmony Extra® were applied January 11, 1995. Sixty units N/A were applied March 20, 1995. Sevin XLR Plus® was applied at 2 pts/A April 18, 1995 for control of cereal leaf beetle. Harvest occurred June 15, 1995.

Blackstone - Planted November 3, 1994. Preplant fertilizer was 500 lbs/A 5-10-10 on October 31, 1994. Thirty lbs liquid N + 12 lb S/A were applied January 10, 1995. On February 22, 1995, 0.5 oz Harmony Extra® + 0.25% X-77® were applied. Liquid N was applied at 75 lbs/A on March 13, 1995. One lb Sevin 80S® was applied on April 20, 1995 for control of cereal leaf beetle. Harvest occurred on June 14, 1995.

Loudoun - Planted October 11, 1994. Fifty lbs urea/A using a 46% N formulation was applied in October 1994. At the same time, 100 lbs MAP 11-52-0 and 100 lbs K₂O 0-0-60 was applied. Twenty-eight gal 30%N + 2/3 pt ACA + 0.5 oz Harmony Extra® was applied February 14, 1995. Harvest occurred July 5, 1995.

Orange - Planted October 12, 1994. Preplant fertilizer was 600 lbs 5-10-10 October 3, 1994. Emergence occurred October 19, 1994. Banvel® at 0.25 pt and 2,4-D at 0.5 pt/A were applied March 13 and 60 lbs N/A were applied March 16, 1995. Harvest occurred June 6-8, 1995.

Table 1. Yield performance of entries in the Virginia State Barley Test, 1994-95.*

Brand/Variety	Blacksburg	Blackstone	Holland	Painter	Warsaw	Orange	Average
bu/acre							
VA94-42-13	113	92	111	136 +	133	120	119 +
VA94-42-81	120	101	105	125	136	122	119 +
NOMINI	119	88	105	136 +	140 +	120	119 +
VA93-44-158	98	95	113	133 +	135	126	118 +
VA92-44-275	103	100	105	133 +	135	118	116
GA-EVERETT	117	98	113	121	129	117	116
STARLING	94	106	107	131 +	138 +	110	115
VA94-41-12	111	93	94	127	129	129	115
VA92-42-46	116	91	97	133 +	129	112	114
VA94-42-88	98	103	97	128	129	126	114
VA92-44-279	106	101	102	129	136	107	114
VA92-42-52	122 +	101	95	112	132	116	113
VA92-42-6	108	104	97	122	129	108	112
CALLAO	112	92	109	115	120	114	111
WYSOR	105	106	95	117	121	118	110
NC90-4061	98	105	105	107 -	128	111	109
VA93-42-48	101	96	90	118	122	123	109
NC90-4062	94	93	103	108 -	127	119	108
MOLLYBLOOM	85 -	108	108	100 -	115 -	107	104 -
PENNBAR66	83 -	97	97	105 -	119	119	103 -
MULLIGAN	95	90	100	100 -	111 -	116	102 -
PAMUNKEY	88 -	83	78 -	129	122	108	102 -
BOONE	84 -	107	105	86 -	113 -	107	100 -
LSD (0.05)	16	16	16	11	10	21	6
Location Average	105	96	102	120	128	115	112
Statewide Average	112						

* A plus or minus sign indicates a performance significantly above or below the test average, respectively.

Table 2. Two year average yield performance of entries in the Virginia State Barley Tests, 1994 and 1995.*

Brand/Variety	Blacksburg	Blackstone	Holland	Painter	Warsaw	Orange	Average
bu/acre							
GA-EVERETT	118 +	118 +	119 +	117 +	124	128	121 +
STARLING	102	112	108	123 +	135 +	130	119 +
NOMINI	115 +	103	96	114	133 +	132	116
VA93-44-158	103	110	111	103	124	131	114
CALLAO	112 +	106	106	107	119	128	113
VA92-44-275	100	110	107	112	122	128	113
PENNBAR66	92 -	110	105	109	126	129	112
WYSOR	105	106	98	104	121	132	112
VA92-42-52	116 +	106	92	99 -	125	131	112
VA92-42-46	115 +	97	97	107	121	131	112
NC90-4062	97	102	107	107	128	131	112
NC90-4061	98	104	102	106	129	129	112
VA92-44-279	104	109	106	105	125	117	111
VA92-42-6	109	103	96	109	119	127	111
VA93-42-48	105	102	91	107	123	133	111
MOLLYBLOOM	91 -	102	106	102	123	127	109
MULLIGAN	96	97	97	103	120	124	107 -
BOONE	88 -	99	109	96 -	122	127	107 -
PAMUNKEY	97	95	81 -	112	122	123	106 -
LSD (0.05)	9	12	13	8	8	17	5
Location Average	103	105	102	107	124	128	112
Statewide Average	112						

* A plus or minus sign indicates a performance significantly above or below the test average, respectively.

Table 3. Three year average yield performance of entries in the Virginia State Barley Tests, 1993, 1994, and 1995.*

Brand/Variety	Blacksburg	Holland	Painter	Warsaw	Orange	Average
	bu/acre					
NOMINI	122 +	96	114	133 +	130	119 +
STARLING	107	105	121 +	134 +	124	118 +
VA92-44-275	108	102	113	128	122	115
CALLAO	113	103	110	120	122	114
VA92-44-279	111	103	107	128	117	114
VA92-42-46	120 +	94	108	126	121	114
VA92-42-52	117 +	91	104	130	123	113
VA92-42-6	109	96	113	124	118	112
PENNBAR66	100	101	109	126	119	111
PAMUNKEY	105	86 -	114	126	117	110
WYSOR	103	95	108	122	120	110
MOLLYBLOOM	90 -	100	97 -	120	126	107 -
MULLIGAN	95 -	93	102	117 -	116	105 -
BOONE	86 -	100	96 -	116 -	121	104 -
LSD (0.05)	8	9	9	7	13	5
Location Average	106	98	108	125	121	112
Statewide Average	112					

* A plus or minus sign indicates a performance significantly above or below the test average, respectively.

Table 4. Test weight (lbs) of entries in the Virginia State Barley Test, 1994-95.*

Brand/Variety	Blacksburg	Blackstone	Holland	Painter	Warsaw	Orange	Average
CALLAO	46.3 +	52.3 +	49.0 +	50.7 +	53.8 +	50.4 +	50.3 +
PAMUNKEY	45.8 +	49.5 +	49.0 +	50.0 +	53.5 +	49.0 +	49.5 +
VA92-42-52	42.9	51.3 +	50.2 +	48.9 +	53.1 +	49.6 +	49.2 +
NC90-4062	42.3	50.8 +	48.4 +	47.0 +	48.9	49.6 +	47.7 +
NC90-4061	40.6	51.2 +	48.1	46.6	50.0	49.3 +	47.5 +
VA94-42-88	42.0	49.2	48.5 +	47.6 +	50.4 +	47.8 +	47.5 +
VA92-42-46	44.2	48.2	47.9	45.9	49.1	47.0	47.0
MOLLYBLOOM	41.9	51.3 +	47.5	44.3 -	49.0	49.1 +	47.0
BOONE	41.8	51.8 +	47.6	43.7 -	48.1 -	48.6 +	46.7
MULLIGAN	40.3	50.4 +	47.3	45.0 -	49.3	48.2 +	46.6
VA94-42-81	42.4	49.0	46.8	45.6	47.8 -	46.9	46.3
VA92-44-279	40.2	48.4	46.6	46.6	48.7	46.2	46.0
WYSOR	40.6	49.1	47.6	45.5	48.4	46.2	46.0
VA93-44-158	40.4	48.2	46.7	45.8	49.2	45.5 -	45.9 -
VA92-44-275	39.8	48.5	47.0	46.2	49.8	44.9 -	45.9 -
VA92-42-6	42.1	47.7 -	45.9 -	45.3	48.2	46.3	45.8 -
NOMINI	43.5	47.0 -	45.3 -	45.5	48.4	45.5 -	45.8 -
VA94-41-12	40.2	48.2	47.0	45.3	49.0	45.9 -	45.8 -
PENNBAR66	38.9 -	47.7 -	48.2 +	44.8 -	45.3 -	48.1 +	45.4 -
STARLING	41.8	46.7 -	46.4 -	44.9 -	47.7 -	44.9 -	45.3 -
VA94-42-13	40.6	46.4 -	45.6 -	44.4 -	48.5	44.6 -	45.0 -
GA-EVERETT	38.7 -	45.6 -	46.0 -	46.0	49.5	44.1 -	45.0 -
VA93-42-48	40.2 -	45.7 -	45.0 -	44.3 -	46.5 -	44.3 -	44.3 -
LSD (0.05)	2.7	0.9	0.9	0.9	1.3	0.9	0.6
Location Average	41.6	48.6	47.3	46.1	49.4	46.8	46.5
Statewide Average	46.5						

* A plus or minus sign indicates a performance significantly above or below the test average, respectively.

Table 5. Summary of performance of entries in the State Barley Test, 1994-95.*

Brand/Variety	Yield (Bu/A)	Test Weight (Lb)	Date Headed (Mar 31+)	Height (In)	Lodging** (0.2-10)	Leaf Rust (0-9)♦	Leaf Blotch (0-9)	BYD Virus (0-9)
	(6)	(6)	(4)	(4)	(3)	(3)	(1)	(1)
VA94-42-13	119	45.0 -	18 -	34 -	0.5 -	5	2 -	1
VA94-42-81	119	46.3	19	36 +	1.6	4	3	1
NOMINI	119	45.8 -	17 -	38 +	1.6	4	1 -	0 -
VA93-44-158	118	45.9 -	17 -	33 -	3.0	3	1 -	1
VA92-44-275	116	45.9 -	18 -	34 -	2.5	3	1 -	1
GA-EVERETT	116	45.0 -	16 -	35	3.5	4	1 -	0 -
STARLING	115	45.3 -	20 +	37 +	0.7 -	2 -	2 -	0 -
VA94-41-12	115	45.8 -	20 +	36 +	1.6	4	4 +	1
VA92-42-46	114	47.0	19	37 +	0.2 -	1 -	6 +	1
VA94-42-88	114	47.5 +	16 -	36 +	2.5	5	3	0 -
VA92-44-279	114	46.0	17 -	33 -	3.0	3	1 -	1
VA92-42-52	113	49.2 +	17 -	37 +	3.8	6 +	2 -	1
VA92-42-6	112	45.8 -	17 -	36 +	0.7 -	3	2 -	2 +
CALLAO	111	50.3 +	14 -	31 -	5.0 +	3	4 +	0 -
WYSOR	110	46.0	20 +	37 +	2.5	7 +	1 -	3 +
NC90-4061	109	47.5 +	22 +	35	7.8 +	4	2 -	2 +
VA93-42-48	109	44.3 -	22 +	36 +	0.3 -	4	3	1
NC90-4062	108	47.7 +	22 +	35	7.0 +	4	2 -	2 +
MOLLYBLOOM	104	47.0	24 +	36 +	4.9 +	4	1 -	2 +
PENNBAR66	103	45.4 -	24 +	35	1.2	2 -	2 -	2 +
MULLIGAN	102 -	46.6	19	36 +	3.1	5	2 -	1
PAMUNKEY	102 -	49.5 +	16 -	35	3.0	4	2 -	0 -
BOONE	100	46.7	24 +	37 +	8.0 +	5	1 -	2 +
LSD (0.05)	10	0.6	1	1	1.6	2	1	1
Test Average	112	46.5	19	35	2.7	4	3	1

* The number in parentheses below column headings indicates the number of locations on which data are based. A plus or minus sign indicates a performance significantly above or below the test average, respectively.

** Belgian Lodging Scale = Area x Intensity x 0.2. Area = 1-10, where 1 is barley unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is barley standing upright and 5 is barley lying totally flat.

♦ The 0-9 ratings indicate relative disease intensity where 0=none and 9=total plant infection.

Table 6. Yield performance of entries in the Virginia State Wheat Test, 1994-95.*

Brand/Variety	Blacksburg	Blackstone	Holland	Painter	Warsaw	Loudoun	Orange	
	Average**							
	bu/a							
PIONEER 2580-B	75 +	84	76	110 +	95 +	90 +	77 +	89 +
TRICAL XT498***	77 +	102 +	75	94	90	90 +	68 +	87 +
VA94-54-479	67	82	89 +	111 +	101 +	75	72 +	87 +
NC91-1085***	70 +	83	88 +	97	89	87 +	47 -	86 +
JACKSON	74 +	82	78	106 +	89	76	59	84 +
VA93-54-429	82 +	85	70	94	95 +	71	64	83 +
PIONEER 2684-B	71 +	78	73	104 +	87	77	61	82 +
VA94-52-25	72 +	74	75	102 +	98 +	72	42 -	82 +
PIONEER XW631-B	65	68	71	104 +	95 +	76	58	80
VA92-51-12	71 +	78	74	104 +	90	61	66	80
PIONEER 2643-B	69 +	74	75	92	85	80	67	79
PIONEER 2548-B	69 +	69	70	98	87	79	70 +	79
VA94-52-68	69 +	66	84 +	95	88	71	61	79
VA94-52-69	70 +	65	80 +	94	93 +	70	59	79
VA93-52-60	56	78	71	110 +	78	77	39 -	78
VA94-54-549	67	67	81 +	98	85	65	55	78
COKER 9835	50 -	81	74	105 +	82	78	66	78
WAKEFIELD-B	58	77	80 +	95	85	75	48 -	78
VA93-52-55	60	69	74	96	93 +	69	57	77
VA94-52-20	55	90	64	98	86	75	56	77
MADISON	61	70	67	101 +	89	66	27 -	76
COKER 9803	68 +	85	70	91	75	71	68 +	76
GA-GORE	59	79	78	91	84	66	61	76
FFR555W-B	68 +	81	70	88	78	70	66	76
VA91-51-20	63	78	72	91	80	71	64	76
HICKORY	62	84	72	96	76	68	64	76
AGRIPRO ELKHART	64	76	71	92	75	72	49 -	75
COKER 9904	52 -	79	74	99	82	63	65	75
HOFFMAN 89-B	59	76	68	84 -	83	75	55	74
FFR EXP 723-B	55	70	78	92	78	65	54	73
SUCCESSION	52 -	76	72	90	79	70	55	73
SALUDA-B	58	69	68	97	77	71	61	73
CLEMENS	62	76	66	82 -	76	75	58	73
VA91-51-10	64	69	69	81 -	77	68	61	72
MASSEY	53 -	73	72	85 -	81	70	63	72
SAWYER	59	70	69	92	72	71	63	72
FFR511W	56	67	64	99	80	68	50 -	72
COKER 9543-B	47 -	73	73	86 -	74	72	64	71
HOFFMAN X131	63	67	66	82 -	75	75	58	71
FFR568	50 -	71	61 -	91	82	67	50 -	70
MOREY	40 -	72	67	95	76	73	45 -	70
SHILOH	57	66	57 -	90	70 -	72	61	69 -
FFR525-B	54 -	63	64	88	77	63	64	68 -
SALUDA	57	65	63 -	88	77	60 -	61	68 -
COKER 916	56	67	66	82 -	74	64	49 -	68 -
FFR EXP 723	46 -	65	64	84 -	71 -	69	54	67 -
COKER 9474-B	51 -	67	62 -	79 -	74	61	56	66 -
GA-DOZIER	43 -	62	72	88	80	52 -	50 -	66 -
LSD (0.05)	7	18	8	7	10	11	9	6
Location Average	61	74	71	93	81	71	59	75
Statewide Average	75							

* A plus or minus sign indicates a performance significantly above or below the test average, respectively.

** Varieties from Orange were not included in the statewide average because barley yellow dwarf virus and other diseases were so severe that yield potential could not be evaluated.

*** These are wheat/rye crosses or triticales, not wheat varieties.

Table 7. Two year average yield performance of entries in the Virginia State Wheat Tests, 1994 and 1995.*

Brand/Variety	Blacksburg	Blackstone	Holland	Painter	Warsaw	Loudoun	Orange	Average[♦]
	bu/a							
TRICAL XT498**	85 +	103 +	78	89	92 +	77 +	88 +	86 +
PIONEER 2580-B	88 +	81	74	98 +	91 +	78 +	85 +	85 +
JACKSON	89 +	80	76	97 +	86	70	77	83 +
VA93-52-60	79	81	78	100 +	82	72 +	69 -	82 +
VA93-54-429	91 +	82	68	89	87	68	78	81 +
VA92-51-12	85 +	79	73	97 +	87	61	82	80 +
PIONEER 2643-B	80	80	73	92 +	87	70	82	80 +
VA93-52-24	72 -	82	78	88	89	69	83	79
VA91-51-20	78	82	74	88	82	68	84 +	79
VA93-52-55	74	76	76	93 +	90 +	66	76	79
COKER 9835	69 -	82	73	99 +	84	71	85 +	79
PIONEER 2684-B	82 +	77	71	94 +	83	67	72	79
WAKEFIELD-B	76	77	79	83	85	68	74	78
FFR555W-B	80	82	71	87	82	66	81	78
VA93-54-185	77	79	75	84	87	66	74	78
PIONEER 2548-B	84 +	71	70	85	84	68	79	77
COKER 9904	71 -	80	76	92 +	82	61	78	77
HICKORY	80	80	71	89	76 -	67	76	77
VA93-54-211	71 -	79	78	83	88	62	80	76
GA-GORE	77	80	78	77 -	83	66	82	76
VA93-52-11	84 +	74	71	81 -	77	72 +	82	76
MADISON	77	74	69	86	86	63	61 -	76
SALUDA-B	78	72	68	90	80	67	78	76
VA93-52-23	70 -	76	73	85	83	66	76	75
VA93-54-258	82 +	75	66	85	79	61	76	75
VA91-51-10	78	72	73	83	81	66	76	75
COKER 9543-B	69 -	76	71	87	78	67	79	75
COKER 9803	77	77	69	84	74 -	64	74	74 -
MASSEY	70 -	76	72	82 -	78	63	74	73 -
FFR511W	72 -	70	68	86	79	60 -	70	72 -
HOFFMAN 89-B	71 -	70	66	78 -	80	66	67 -	72 -
COKER 916	72 -	72	70	77 -	74 -	61	69 -	71 -
FFR568	63 -	69	66	82 -	80	62	71	70 -
SALUDA	76	66 -	65	79 -	74 -	59 -	77	70 -
LSD (0.05)	5	11	8	5	7	6	7	3
Location Average	77	77	72	87	83	66	77	77
Statewide Average	77							

* A plus or minus sign indicates a performance significantly above or below the test average, respectively.

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

♦ Varieties from Orange were not included in the statewide average because barley yellow dwarf virus and other diseases were so severe in 1995 that yield potential could not be evaluated.

Table 8. Three year average yield performance of entries in the Virginia State Wheat Tests, 1993, 1994, and 1995.*

Brand/Variety	Blacksburg	Blackstone	Holland	Painter	Warsaw	Orange♦	Average
	bu/a						
PIONEER 2580-B	92 +	78	72	96 +	94 +	87	87 +
JACKSON	93 +	77	75	96 +	92 +	82	87 +
VA92-51-12	89 +	75	74	96 +	94 +	87	86 +
FFR555W-B	86 +	78	73	86	91 +	88 +	83 +
COKER 9835	76 -	77	72	93 +	89	88 +	82
PIONEER 2684-B	87 +	74	69	91 +	88	83	82
PIONEER 2548-B	89 +	70	71	85	89	86	82
WAKEFIELD-B	81	73	77 +	84	89	81	81
VA91-51-20	84	77	74	83	86	86	81
GA-GORE	80	77	76	78 -	87	86	80
HICKORY	83	75	72	87	80 -	80	80
MADISON	84	70	68	85	90	71 -	80
SALUDA-B	84	69	69	88	87	85	80
COKER 9904	75 -	76	73	86	84	81	79
VA91-51-10	83	69	72	83	87	82	79
COKER 9803	84	73	67	82	81 -	82	78
COKER 9543-B	74 -	74	70	83	80 -	81	76 -
MASSEY	73 -	70	70	80 -	79 -	77	75 -
FFR511W	78 -	64 -	67	82	81 -	76 -	75 -
COKER 916	76 -	68	68	77 -	78 -	76 -	74 -
SALUDA	80	66	63 -	79 -	80 -	83	74 -
FFR568	71 -	67	66	79 -	84	76 -	74 -
LSD (0.05)	4	9	6	4	5	6	3
Location Average	82	73	71	85	86	82	80
Statewide Average	80						

* A plus or minus sign indicates a performance significantly above or below the test average, respectively.

♦ Varieties from Orange were not included in the statewide average because barley yellow dwarf virus and other diseases were so severe in 1995 that yield potential could not be evaluated.

Table 9. Test weight of entries in the Virginia State Wheat Test, 1994-95.*

Brand/Variety	Blacksburg	Blackstone	Holland	Painter	Warsaw	Loudoun	Orange	
	Average**							
	lbs							
SUCCESSION	57.0 +	60.3 +	58.9 +	59.3 +	61.9 +	57.6 +	57.0 +	59.1 +
HOFFMAN 89-B	57.0 +	60.3 +	58.4 +	59.0 +	62.1 +	57.7 +	56.8 +	59.0 +
VA93-54-429	58.3 +	59.8 +	58.0 +	59.0 +	62.2 +	57.3 +	56.1	59.0 +
VA91-51-20	55.3	59.4 +	58.5 +	58.5 +	61.7 +	57.1 +	55.2	58.4 +
COKER 9803	55.7	59.3 +	58.4 +	58.2	61.7 +	56.9 +	57.3 +	58.3 +
COKER 9474-B	57.1 +	58.6	58.3 +	57.7	61.1 +	56.7 +	51.4	58.3 +
PIONEER 2684-B	57.4 +	58.1	57.9 +	59.1 +	60.9 +	55.6 +	55.4	58.2 +
SALUDA	55.0	59.9 +	57.8 +	58.0	62.0 +	56.7 +	57.1 +	58.2 +
AGRIPRO ELKHART	57.3 +	59.5 +	57.6 +	57.9	61.0 +	55.8 +	56.7 +	58.1 +
SALUDA-B	55.1	58.1	57.8 +	58.9 +	61.6 +	56.3 +	56.8 +	57.9 +
VA93-52-60	56.9 +	59.3 +	57.6 +	58.0	60.6	55.3	54.4	57.9 +
VA94-52-68	55.6	59.0	57.2	57.5	61.1 +	56.4 +	54.9	57.8 +
VA92-51-12	53.5	58.8	57.8 +	58.5 +	60.9 +	55.8 +	55.6	57.5
VA91-51-10	54.8	58.2	56.9	57.7	60.8 +	57.0 +	55.9	57.5
VA93-52-55	55.5	59.1	56.4	58.8 +	60.7 +	55.1	55.4	57.5
JACKSON	52.8	59.0	57.5 +	58.4 +	61.4 +	55.8 +	56.1	57.4
VA94-52-69	55.8 +	58.4	56.8	56.8	61.2 +	55.8 +	54.5	57.4
VA94-54-549	53.5	59.4 +	57.3	58.9 +	60.7 +	55.3	53.8	57.4
MASSEY	55.0	57.6	57.8 +	57.1	60.4	56.1 +	55.2	57.3
CLEMENS	56.1 +	57.9	57.9 +	55.7	60.7 +	55.6 +	55.1	57.3
VA94-54-479	54.5	58.1	56.9	58.6 +	60.8 +	55.4	56.1	57.3
FFR525-B	54.2	59.3 +	57.7 +	57.7	60.7 +	54.3 -	54.5	57.2
COKER 9543-B	54.8	56.3 -	57.0	57.4	60.4	56.1 +	56.4	57.0
VA94-52-25	55.0	57.5	55.9	57.4	59.9	55.0	54.2	56.8
MADISON	56.0 +	56.7	56.7	56.9	59.2 -	54.5	54.6	56.7
FFR568	54.0	58.1	56.3	56.3	59.8	55.3	54.8	56.6
HOFFMAN X131	54.9	57.8	56.0	56.1	59.8	55.3	53.7	56.6
PIONEER 2643-B	53.8	57.9	56.4	56.6	60.0	55.4	55.3	56.6
WAKEFIELD-B	54.8	58.6	56.2	55.7	59.1 -	55.1	55.9	56.5
COKER 916	53.7	58.2	56.7	56.0	60.1	54.8	55.8	56.5
GA-DOZIER	54.0	58.3	57.2	56.8	60.5	52.4 -	49.9 -	56.5
HICKORY	53.5	56.9	57.0	55.8	59.7	55.3	55.8	56.3
PIONEER 2548-B	54.6	56.6	55.9	56.3	59.3 -	54.2 -	54.0	56.1
FFR555W-B	53.9	58.3	55.1 -	55.8	59.3 -	54.9	56.6 +	56.1
SHILOH	54.2	56.6	56.3	56.4	59.0 -	54.4 -	54.9	56.1
PIONEER 2580-B	54.5	56.5	55.5 -	56.2	59.4	53.7 -	54.6	56.0
GA-GORE	52.5 -	57.2	57.3	56.6	59.5	53.4 -	52.2	56.0
COKER 9835	50.8 -	57.4	56.3	57.3	59.8	55.0	55.6	56.0
PIONEER XW631-B	52.9	56.8	56.3	55.6	59.7	53.4 -	55.7	55.7 -
FFR EXP 723-B	52.3 -	56.9	56.3	55.7	59.7	53.3 -	53.9	55.6 -
FFR511W	54.4	56.0 -	55.6 -	56.1	58.2 -	52.8 -	52.1 -	55.5 -
FFR EXP 723	52.1 -	55.8 -	55.8 -	55.4	59.5	54.0 -	52.6	55.4 -
SAWYER	53.8	56.8	55.0 -	55.3	58.0 -	53.9 -	53.8	55.4 -
COKER 9904	52.6 -	57.6	56.3	53.4 -	58.8 -	53.5 -	55.5	55.3 -
VA94-52-20	50.0 -	56.2 -	55.8 -	55.1 -	57.6 -	52.7 -	47.3 -	54.5 -
MOREY	52.5 -	56.3 -	54.6 -	53.7 -	57.8 -	51.9 -	47.3 -	54.4 -
NC91-1085***	45.9 -	49.0 -	50.5 -	49.9 -	53.5 -	49.8 -	39.1 -	49.8 -
TRICAL XT498***	45.3 -	49.2 -	46.5 -	47.7 -	52.2 -	44.3 -	45.4 -	47.5 -
LSD (0.05)	1.6	1.5	0.8	1.6	0.7	0.6	2.2	0.9
Location Average	54.2	57.8	56.6	56.8	60.0	55.0	54.3	56.7
Statewide Average	56.7							

* A plus or minus sign indicates a performance significantly above or below the test average, respectively.

** Varieties from Orange were not included in the statewide average because barley yellow dwarf virus and other diseases were so severe that yield potential could not be evaluated.

*** These are wheat/rye crosses or triticales, not wheat varieties.

Table 10. Summary of performance of entries in the State Wheat Test, 1994-95.*

Brand/Variety	Yield (Bu/A)	Test Weight (Lb)	Date Headed (Mar 31+)	Height (In)	Lodging** (0.2-10)	Powdery Mildew (0-9)*	Septoria		Glume Blotch (0-9)	BYD Virus (0-9)
							Leaf Rust (0-9)	Leaf Blotch (0-9)		
	(6)	(6)	(4)	(5)	(2)	(3)	(3)	(1)	(1)	(3)
PIONEER 2580-B	89 +	56.0	27 -	33 -	1.2	1	3	5 +	3 +	4
TRICAL XT498**	87 +	47.5 -	22 -	39 +	0.9	0 -	4 +	6 +	5 +	4
VA94-54-479	87 +	57.3	28 -	32 -	2.0	0 -	1 -	3	3 +	4
NC91-1085**	86 +	49.8 -	22 -	41 +	2.2	0 -	0 -	2 -	3 +	3 -
JACKSON	84 +	57.4	29	36 +	3.5 +	1	3	2 -	1 -	4
VA93-54-429	83 +	59.0 +	31 +	34	1.4	0 -	3	2 -	2	1 -
PIONEER 2684-B	82 +	58.2 +	27 -	33 -	0.3 -	1	4 +	2 -	1 -	4
VA94-52-25	82 +	56.8	30 +	33 -	1.3	1	1 -	3	4 +	3 -
PIONEER XW631-B	80	55.7 -	25 -	31 -	1.4	0 -	1 -	4 +	2	4
VA92-51-12	80	57.5	29	36 +	3.2 +	1	3	3	1 -	3 -
PIONEER 2548-B	79	56.1	29	33 -	0.8	1	3	5 +	3 +	4
VA94-52-69	79	57.4	30 +	34	2.1	2 +	1 -	3	2	3 -
VA94-52-68	79	57.8 +	29	35 +	2.5	2 +	1 -	4 +	2	4
PIONEER 2643-B	79	56.6	28 -	29 -	0.5	0 -	2 -	4 +	3 +	4
VA94-54-549	78	57.4	29	33 -	3.2 +	1	1 -	4 +	3 +	4
WAKEFIELD-B	78	56.5	30 +	38 +	1.5	2 +	4 +	4 +	4 +	5 +
COKER 9835	78	56.0	29	31 -	3.5 +	1	1 -	3	3 +	4
VA93-52-60	78	57.9 +	26 -	34	0.9	1	4 +	4 +	2	5 +
VA93-52-55	77	57.5	29	32 -	0.8	0 -	2 -	4 +	3 +	5 +
VA94-52-20	77	54.5 -	26 -	34	3.1	1	6 +	2 -	4 +	5 +
GA-GORE	76	56.0	26 -	33 -	4.6 +	0 -	2 -	3	2	4
COKER 9803	76	58.3 +	28 -	33 -	2.7	1	3	4 +	2	4
MADISON	76	56.7	27 -	35 +	1.2	2 +	5 +	2 -	2	3 -
FFR555W-B	76	56.1	31 +	35 +	0.7	2 +	5 +	2 -	2	4
VA91-51-20	76	58.4 +	29	34	2.5	0 -	4 +	4 +	3 +	5 +
HICKORY	76	56.3	26 -	36 +	2.0	2 +	5 +	3	3 +	3 -
AGRIPRO ELKHART	75	58.1 +	29	38 +	0.9	3 +	2 -	3	3 +	4
COKER 9904	75	55.3 -	28 -	35 +	3.2 +	1	0 -	2 -	2	5 +
HOFFMAN 89-B	74	59.0 +	32 +	37 +	1.3	1	4 +	3	2	4
SUCCESSION	73	59.1 +	31 +	36 +	2.8	1	3	3	2	4
CLEMENS	73	57.3	34 +	37 +	2.3	4 +	1 -	3	2	3 -
SALUDA-B	73	57.9 +	29	34	1.3	4 +	4 +	3	2	5 +
FFR EXP 723-B	73	55.6 -	28 -	31 -	1.6	2 +	2 -	3	3 +	4
MASSEY	72	57.3	28 -	37 +	4.1 +	1	8 +	3	4 +	4
FFR511W	72	55.5 -	28 -	34	0.8	1	3	2 -	4 +	4
SAWYER	72	55.4 -	29	34	1.0	1	3	2 -	2	5 +
VA91-51-10	72	57.5	31 +	36 +	2.4	1	4 +	2 -	1 -	4
COKER 9543-B	71	57.0	28 -	33 -	1.3	1	3	3	2	4
HOFFMAN X131	71	56.6	29	36 +	1.8	3 +	4 +	4 +	3 +	6 +
FFR568	70	56.6	30 +	36 +	1.3	2 +	6 +	3	3 +	4
MOREY	70	54.4 -	26 -	33 -	0.3 -	0 -	0 -	6 +	3 +	6 +
SHILOH	69 -	56.1	31 +	33 -	0.7	6 +	1 -	3	2	4
SALUDA	68 -	58.2 +	29	34	2.1	4 +	4 +	4 +	2	5 +
COKER 916	68 -	56.5	27 -	35 +	2.2	1	5 +	3	4 +	5 +
FFR525-B	68 -	57.2	28 -	36 +	2.6	6 +	3	4 +	3 +	5 +
FFR EXP 723	67 -	55.4 -	28 -	30 -	2.1	1	2 -	4 +	3 +	5 +
COKER 9474-B	66 -	58.3 +	28 -	32 -	0.2 -	2 +	0 -	3	3 +	4
GA-DOZIER	66 -	56.5	30 +	33 -	2.5	3 +	0 -	5 +	3 +	5 +

LSD (0.05)	6	0.9	1	1	1.4	1	1	1	1	1
Test Average	75	56.7	29	34	1.8	1	3	3	2	4

* The number in parentheses below column headings indicates the number of locations on which data are based.

A plus or minus sign indicates a performance significantly above or below the test average, respectively.

** Belgian Lodging Scale = Area x Intensity x 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat lying totally flat.

♦ The 0-9 ratings indicate relative disease intensity where 0=none and 9=total plant infection.

♦♦ These are wheat/rye crosses or triticales, not wheat varieties.

