Revised 1994

SMALL GRAINS IN 1994

The following are the small grain variety recommendations for Virginia in 1994. 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	PIED	MONT	WEST OF BLUE RIDGE							
	South of James River	North of James River								
	Ва	rley								
Nomini	Nomini	Nomini	Nomini							
Pamunkey	Pamunkey	Pamunkey	Pamunkey							
Wysor	Wysor	Wysor	Wysor							
Pennco	Pennco	Pennco	Pennco							
Mollybloom	Mollybloom									
	W	heat								
GA-Gore	GA-Gore									
NK-Coker 9803	NK-Coker 9803	NK-Coker 9803	NK-Coker 9803							
Pioneer Brand 2684	Pioneer Brand 2684	Pioneer Brand 2684	Pioneer Brand 2684							
Pioneer Brand 2580	Pioneer Brand 2580	Pioneer Brand 2580	Pioneer Brand 2580							
FFR 511W	FFR 511W	FFR 511W	FFR 511W							
Madison	Madison	Madison	Madison							
NK-Coker 9835	NK-Coker 9835									
Saluda*	Saluda*	Saluda*	Saluda*							
Pioneer Brand 2548	Pioneer Brand 2548	Pioneer Brand 2548	Pioneer Brand 2548							
FFR 568 ¹	FFR 568 ¹	FFR 568 ¹	FFR 568 ¹							
Jackson	Jackson	Jackson	Jackson							
FFR 555W	FFR 555W	FFR 555W	FFR 555W							
Wakefield*	Wakefield*	Wakefield*	Wakefield*							

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

¹To be dropped from the recommended list after 1994.

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., 1936 East Parham Road, Richmond, VA 23228-2206.

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

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

COMMERCIAL WHEAT ENTRIES

NK Coker 916, NK Coker 983, NK Coker 9803, NK Coker 9835, NK Coker 9543, and NK Coker 9904 - 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, and FFR EXP 392 - Southern States Cooperative, PO Box 26234, Richmond, VA 23260.

Agripro Hickory - Agripro Seeds, Inc., P.O. Box 2962, Shawnee Mission, KS 66201-1362.

Hoffman 21 and Hoffman 89 - Hoffman Seeds, Inc., 144 Main Street, Landisville, PA 17538.

Massey, Saluda, Madison, Wakefield and Jackson - Virginia Crop Improvement Assoc., 1936 East Parham Road, Richmond, VA 23228-2206.

GA-GORE - University of Georgia release, College of Agriculture, Athens, GA 30602. Certified seed is being produced in Virginia.

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

Stine 451 - AgChem, Inc., P.O. Box 2178, Salisbury, MD 21802-2178.

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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Location Supervisors: Mr. Tom Custis and Dr. Bob Baldwin (Painter); Mr. John Riddick (Holland); Mr. Kirk Vanlandingham, Mr. Bill Sisson and Dr. Ras Sagaral (Warsaw); Mr. Bill Wilkinson III and Mr. Bud Wilmouth (Blackstone); Mr. Allen Price and Dr. Carl Griffey (Blacksburg); Mr. Bill Brockett, and Mr. Gary Hornbaker (Loudoun); Mr. David Starner (Orange).

INTRODUCTION

The attached tables present results from barley and wheat varietal tests conducted in Virginia in 1993-1994. 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 1993-94 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 may be found on pages 6 and 8, respectively. 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, Ag-Chem, and the Virginia Small Grains Check-Off Board for their financial support of these tests and to the Virginia Crop Improvement Association for their support of the breeding program at Virginia Tech.

BARLEY VARIETIES

Virginia's climate makes it possible to produce 100+ bu/acre field yields of well-managed barley most seasons. Variety selection is one of the most important steps toward achieving high yields in an economic and environmentally sound manner. One of the biggest problems reducing the profitability of barley in Virginia is the <u>LOW</u> price. Check-off supported research is being initiated 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. If high test weight indicates high feed value, the demand for barley should increase in the next decade.

The warm April and cool May of 1994 generally favored later barley varieties. For example, the early variety Nomini averaged 6 bu/acre more than the later Starling variety in 1993 whereas Starling produced an average of 9 bu/acre more than Nomini in 1994. The later barley varieties were especially favored in the Coastal Plains region in 1994. Winter hardiness level of current barley lines was evaluated at two locations in 1993-94. The temperatures at Blacksburg were less than 0°F with no snow cover for several days. Barley varieties that have 98% or better winter survival in Table 5 should have adequate winter hardiness for most areas in Virginia.

Starling, a recently released Virginia Tech barley, produced the highest average yield of any varieties in 1994 and in multiple year averages. Starling averaged 123 bu/acre statewide and ranged in yield from 109 bu/acre at Holland to 150 bu/acre at Orange in 1994. Starling has average test weight and excellent disease resistance including moderate resistance to the new race of leaf rust. It is later than average (similar to Wysor) and moderately tall. Starling could be an excellent choice as a portion of the barley silage acreage when seed becomes available to producers in the fall of 1995.

Nomini continued to perform well in 1994 and continues to be second only to Starling in multi-year multi-location yield performance. The average yield of Nomini over five locations for two years is 117 bu/acre with a low of 91 bu/acre at Holland and over 130 bu/acre at Warsaw and Orange. Nomini has averaged 8 and 9 bu/acre higher than Wysor and Pennco respectively over the past two years. Nomini is early, moderately tall and has average test weight. There should be a good supply of certified Nomini seed.

Pamunkey is a new variety that was released from Virginia Tech because it has <u>excellent</u> test weight. The average test weight for Pamunkey has been over 51 lb/bu each of the past two seasons. The test weight of this variety has exceeded 50 lb/bu at all locations both years except at Orange in 1994 where the test weight was 48.0 lb/bu. Pamunkey has beards that are similar to Barsoy in appearance and ease of removal during combining. Pamunkey is early and moderately tall. It has good standability but tends to bend over at the top node when mature. This should not present major harvest problems since the heads will still be 6-8 inches above ground. A limited supply of certified Pamunkey barley will be available for fall 1994 planting.

Boone had an exceptionally good year in 1994 but was dropped from the recommended list and replaced by Mollybloom, developed at North Carolina State. Mollybloom is similar to Boone but has better leaf rust resistance and slightly better standability. The use of Cerone® could dramatically improve the harvestability and grain quality of Mollybloom.

Pennbar 66 is a new release from Pennsylvania that has yielded well each of the past two seasons. It has good test weight but it is late. It has beards similar to Barsoy and Pamunkey.

Callao, a 1994 release from Virginia Tech, was released because it is early, has excellent yield potential, and excellent test weight. It is

short and has short beards that are easily removed during harvest. However, it lodges more than average and will require Cerone® application when managed to achieve its high yield potential. Certified seed will not be available before the fall of 1996.

The standability of all released barley varieties is greatly improved with the application of Cerone®. <u>Consideration</u> 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.

SUMMARY OF BARLEY MANAGEMENT PRACTICES FOR 1993-1994

Blacksburg - Planted October 6, 1993. Preplant fertilizer was 20 lbs N, 60 lbs P₂O₅, and 100 lbs K₂O. Sixty lbs N/A were applied in the spring. Barley was harvested June 20, 1994.

Blackstone - Planted October 13, 1993. Preplant fertilizer was 600 lb 6-12-18/A applied October 11, 1993. Forty lbs N/A were applied January 10, 1994 and 50 lbs N/A were applied March 17, 1994. Harmony Extra at 0.5 oz/A was applied on February 28, 1994 and 1 lb/A Sevin 80S was applied April 6, 1994 to control cereal leaf beetle. Harvest occurred on June 6, 1994.

Holland - Planted October 21, 1993 following peanuts. Preplant fertilizer was 600 lbs/A 5-10-15 applied October 21, 1993. Lime was applied October 20, 1993 at one ton/A. Using 30% N, sixty lbs and 40 lbs N/A were applied February 28 and March 21, 1994, respectively. Sevin 80WP was applied at 1.5 lbs/A April 29, 1994. Barley was harvested on June 6, 1994.

Painter - Planted October 20, 1993. Preplant fertilizer was 500 lbs/A 5-10-10 applied October 15, 1993. Lime was applied at one ton/A October 5, 1993. Eighty lbs N, 0.5 oz Harmony Extra and 0.75 pts 2,4-D/A were applied March 16, 1994. Malathion 5EC was applied at 1.5 pts/A May 10, 1994. Harvest occurred on June 9, 1994.

Warsaw - Planted October 19, 1993. Preplant fertilizer was 20 lbs N, 60 lbs P_2O_5 , 80 lbs K_2O and 10 lbs S/A. Spring fertilizer was 40 lbs N/A at growth stage 25 and 40 lbs N/A at growth stage 30. Barley was harvested June 7, 1994.

Orange - Planted October 14, 1993. Preplant fertilizer was 600 lbs 10-10-10 applied September 30, 1993. Emergence occurred on October 22, 1993. Forty lbs N/A was applied April 8, 1994. Harvest occurred on June 10, 1994.

Brand/Variety	Blacks	burg	Blacks	tone	Hollan	d Painter	Warsa	w Orange	Averag	ge	
bu/acre	•										
BOONE 91 114	-	92	-	114		106	+	131	+	146	
CALLAO	112		120		102		100		118		141
MOLLYBLOOM	198		96		103		105	+	132	+	147
MULLIGAN	97		105		93		106	+	130	+	133
NOMINI	111		117		85		91		128		144
PAMUNKEY	106		106		86		96		123		137
PENNBAR66	101		124		115		113	+	134	+	139
PENNCO	108		110		94		89		116		129
STARLING	110 +		117		109		116	+	133	+	150
VENUS 103	I	100		96		90		121		138	
WYSOR104		107		103		91		121		147	
GA81814	119 +	+	137	+	128	+	114	+	120		140
NC90-4061	98		104		97		106	+	131	+	146
NC90-4062	99		111		113		105	+	129		143
VA92-42-6	110		102		94		95		109		147
VA92-42-46	114		102		96		81	-	112		150
VA92-42-52	109		111		89		86		119		146
VA92-44-275	96		120		109		90		110		138
VA92-44-279	103		116		111		82		113		127
VA93-42-48	109		107		94		96		124		142
VA93-44-158 110	108		126	+	109		73	-	114		137
LSD (0.05) 11	10		17		19		12		14		25
Location Average	e 105		109		100		93		116		138

Table 1. Yield performance of entries in the Virginia State Barley Test, 1993-94.*

Statewide Average 111

Table 2. Two year average yield performance of entries in the Virginia State Barley Tests, 1993 and 1994.*

• •											
bu/a		07		101		110		120		106	
BUUNE 80	-	97	100	101	107	118	101	129	107	100	-
CALLAU	114		100		107		121		127		114
MOLLYBLOOD	M 93	-	95		96		123		135		109
MULLIGAN	96	-	89		102		120		115		105
-											
NOMINI	123	+	91		102		130		135		117
+											
PAMUNKEY	113		91		106		128		122		113
PENNBAR66	108		103		111		130		119		114
PENNCO	111		90		98		124		115		108
STARLING	114		104		116	+	131		131		120
+											
VENUS 109		88		91	-	124		116		106	-
WYSOR102	-	95		103		123		122		109	
VA92-42-6	110		96		108		122		123		112
VA92-42-46	123	+	93		96		125		125		113
VA92-42-52	115		90		100		129		126		112
VA92-44-275	110		100		103		124		124		112
VA92-44-279	114		104		96		124		122		112
LSD (0.05)	8		10		11		9		16		5
Location Average	ge 110		95		102		124		124		<u> </u>
Statewide Avera	ige	111									

Brand/Variety Blacksburg Holland Painter Warsaw Orange State Average

Table 3. Three year average yield performance of entries in the Virginia StateBarley Tests, 1992, 1993, and 1994.*

bu/a										
BOONE 103		107		112		119		110		
CALLAO	107		125	+	121		110		116	
MOLLYBLOOM	M 100		109		119		123		113	
MULLIGAN	101		113		115	-	108		109	
NOMINI	100		120		133	+	121		119	+
PAMUNKEY	99		124		130	+	112		117	
PENNCO	101		110		125		109		112	
STARLING	109		123		135	+	122		123	+
VENUS 94	-	105	-	120		106		107	-	
WYSOR105		116		120		112		114		
LSD (0.05)	8		10		6		12		5	
Location Averag	ge 102		115		122		113		113	
Statewide Avera	ige	113								

Brand/Variety Holland Painter WarsawOrange State Average

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

Brand/Variety	Blacksb	ourg	Blackst	one	Holland	Painter	Warsav	vOrange	Average	e	
BOONE 50.0 50.3		51.2		50.0		52.4	+	48.9		49.5	
CALLAO +	52.4 51.0	+ +	49.9		50.5		49.1	-	51.4	+	52.2
MOLLYBLOOM 50.1	150.4		50.3		49.4		52.4	+	50.3		47.8
MULLIGAN 49.9	49.0		50.8		49.1		51.8		50.5		48.1
NOMINI 48.0	48.8 -		47.5	-	47.0	-	48.9	-	47.8		47.8
PAMUNKEY 51.2	51.5 +		52.1	+	50.9	+	52.5	+	52.1	+	48.0
PENNBAR66 49.7	48.8		52.3	+	51.4	+	54.0	+	47.2		45.7
PENNCO 48.4	48.7		49.5		47.0	-	50.4		47.9		46.9
STARLING 48.7	49.8		50.0		48.2		50.3		48.0		46.2
VENUS 53.1 52.6	+ +	51.8	+	51.2	+	53.3	+	52.8	+	53.1	+
WYSOR50.5 49.8		49.4		49.4		51.0		49.0		49.3	
GA81814	46.6	-	46.7	-	47.6		50.3		48.1		44.1
- NC90-4061	47.3 48 5	-	52.8	+	51.4	+	53.1	+	51.9	+	483
50.9	+0.5		52.0	·	51.4		55.1		51.7		TO. 5
NC90-4062 51.1	49.5 +		52.8	+	52.0	+	53.4	+	50.1		49.7
VA92-42-6 47.9	48.9 -		46.9	-	46.5	-	50.0		47.5		47.2
VA92-42-46 50.4	51.1		50.9		50.6		50.8		50.9		48.1
VA92-42-52 +	52.7 52.5	+ +	52.8	+	50.4		54.2	+	53.0	+	51.7
VA92-44-275 50.1	50.5		50.2		48.2		50.8		51.0		49.6
VA92-44-279 50.2	50.3		50.1		49.3		52.1		49.8		49.6
VA93-42-48 48.2	47.7	-	49.5		47.6		49.8	-	48.2		46.6
VA93-44-158 50.6	50.8		50.0		50.5		51.5		51.4	+	49.3
LSD (0.05) 1.4	1.8		1.5		1.8		1.2		2.1		2.7
Location Average 49.5	e 49.9		49.9		49.1		51.1		49.1		48.3

Statewide Average 49.5

Test	Date	Leaf	Winter							
Brand/Variety	Yield	Weight	Headed	Height	Lodg	ing Rust	Scald	Survival		
(Bu/A)	(Lb)	(Mar 31	1+)	(In)	(%)	(%)	(0-9)	(%)		
(6)	(6)	(4)	(4)	(5)	(1)	(2)	(2)			
BOONE	114	5	50.3	24	+	37 +	44 +	20 +	1 -	95
CALLAO	116	5	51.0 +	18	-	31 -	32 +	1	3	98
MOLLYBLOOM	[115	5	50.1	24	+	37 +	32 +	4 +	1 -	96
MULLIGAN	112	4	19.9	22	+	36	13	1	1 -	95
NOMINI	114	4	- 0.84	19	-	38 +	9	2	2 -	99
PAMUNKEY	110	5	51.2 +	19	-	34 -	20	1	3	98
PENNBAR66	121	4	9.7	26	+	37 +	18	1	1 -	97
PENNCO	108	4	8.4	22	+	37 +	12	1	1 -	93
STARLING	123	+ 4	8.7	22	+	37 +	10	1	1 -	98
VENUS	109	5	52.6 +	18	-	35 -	31	8 +	2 -	100 +
WYSOR	113	4	19.8	21		37 +	11	2	2 -	97
GA81814	126	+ 4	7.3 -	19	-	36	15	2	3	99
NC90-4061	115	5	50.9 +	24	+	34 -	17	10 +	1 -	89 -
NC90-4062	117	5	51.1 +	24	+	35 -	22	1	1 -	90 -
VA92-42-6	110	4	- 7.9	19	-	36	15	1	2 -	97
VA92-42-46	110	5	50.4	21		39 +	14	0 -	3	99
VA92-42-52	111	5	52.5 +	20	-	35 -	19	1	3	98
VA92-44-275	110	5	50.1	21		33 -	14	1	4 +	90 -
VA92-44-279	108	5	50.2	21		33 -	13	0 -	3	88 -
VA93-42-48	113	4	8.2	22	+	37 +	9	2	2 -	99
VA93-44-158	110	5	50.6	21		33 -	10	1	4 +	96
LSD (0.05)	11		1.4	1		1	17	2	1	4
Test Average	111	4	19.5	21		36	15	2	3	96

Table 5. Summary of performance of entries in the State Barley Test, 1993-94.*

* 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.

WHEAT VARIETIES

The wet February (3.84") and record rainfall in March (10.13" at Suffolk) reduced the ability to apply nitrogen at optimum times at several locations. The wet season resulted in nitrogen being applied only once at Painter instead of the normal two winter - early spring applications. April was the driest month on record at Suffolk with 0.8" of rainfall. Despited these weather challenges we had a statewide variety test average of 79 bu/acre with yields of the best varieties exceeding 100 bu/acre at several locations.

Special note should be taken that the yield performances of NK Coker 9803 and FFR 568-B (-B indicates Baytan-treated seed) were likely reduced because the seed used had reduced germination and vigor. In general, NK Coker 9803 continues to be an excellent performing wheat statewide. Also, the test at Painter is an excellent source of information about the performance of wheat varieties in fields infested with soil borne viruses. The yield of susceptible varieties such as GA-Gore, Hoffman 21-B, Pioneer 2548 and Saluda was likely reduced significantly by soil borne virus at Painter.

Northrup King Coker 9835, Jackson and Pioneer XW522 had the highest yield average with 84 bu/acre statewide and above 90 bu/acre in at least two locations. NK Coker 9835 had average yields in the state test in the previous three seasons, has average test weight and is shorter than most current varieties. Jackson, the new Virginia Tech release, has been a top yielder each of the past four seasons at most test locations. It has excellent test weight, medium maturity and height, average standability and good disease resistance. Jackson will be available to seedsmen in the fall of 1994 and to producers by the fall of 1995. Pioneer XW522 was in our test for the first time in 1994. It produced excellent yields at all locations. It is shorter than average and would likely produce less straw than other varieties, an advantage in double-cropping. This variety has excellent disease resistance and good test weight.

Other varieties averaging 80 bu/acre or above include: Pioneer 2580 @ 83 bu/acre; FFR 555 and FFR 555-B @ 82 bu/acre; Coker 9543-B, GA-Gore, Saluda-B, and Wakefield-B @ 81 bu/acre; and Coker 9904, FFR EXP 392, and Hickory @ 80 bu/acre. Pioneer 2580 has yielded above average each of the past two seasons and performed well at all locations. It has good test weight, standability and general disease resistance. FFR 555W-B continues to be a top yielding variety at all locations. It has good test weight, medium maturity and average height. NK Coker 9543 has been in our test for several years but this is the first year it was tested with Baytan. It has yielded less than average in previous years without Baytan.

Hickory and GA-Gore are both early wheats that have performed well. They also have good test weight.

Released varieties that have yielded less than average for the past two seasons include: NK Coker 916, NK Coker 983, FFR 511W, FFR 568, Massey, Pioneer 2566 and Saluda without Baytan.

Baytan compared to Vitavax seed treatment on powdery mildew susceptible varieties can dramatically improve performance such as was obtained with Saluda (81 vs 75 bu/acre). Baytan treatment on varieties with moederate resistance to powdery mildew has given little to no yield increases. The greatest benefit of Baytan seed treatment is realized when planting early and in a timely manner.

Trical 498 is a wheat/rye cross (triticale). It is grown as a feed crop instead of a flour crop. It was included in these tests for yield comparisons.

SUMMARY OF WHEAT MANAGEMENT PRACTICES FOR 1993-1994

Blacksburg - Planted October 5, 1993. Preplant fertilizer was 20 lbs N, 60 lbs P_2O_5 , and 100 lbs K_2O . Sixty lbs N/A were applied in the spring. Wheat was harvested July 5, 1994.

Warsaw - Planted October 20, 1993. Preplant fertilizer was 20 lbs N, 60 lbs P₂O₅, 80 lbs K₂O and 10 lbs S/A. Spring fertilization included 40 lbs N/A at growth stage 25 and 50 lbs N/A at growth stage 30. Harvest occurred on June 25, 1994.

Painter - Planted October 20, 1993. Preplant fertilizer was 500 lbs/A 5-10-10 applied October 15, 1993. Lime was applied at one ton/A October 5, 1993. Eighty lbs N, 0.5 oz Harmony Extra and 0.75 pts 2,4-D/A were applied March 16, 1994. Malathion 5EC was applied at 1.5 pts/A May 10, 1994. Harvest was on June 22, 1994.

Holland - Planted October 21, 1993. Preplant fertilizer was 600 lbs/A 5-10-15 applied October 21, 1993. Lime was applied October 20, 1993 at one ton/A. Using 30% N, sixty lbs and 40 lbs N/A were applied February 28 and March 21, 1994, respectively. Sevin 80WP was applied at 1.5 lbs/A April 29, 1994. Wheat was harvested on June 16, 1994.

Blackstone - Planted October 13, 1993. Preplant fertilizer was 600 lb/A 6-12-18 applied October 11, 1993. Forty lbs N/A were applied January 10, 1994 and 50 lbs N/A were applied March 17, 1994. Harmony Extra at 0.5 oz/A was applied on February 28, 1994 and 1 lb/A Sevin 80S was applied April 6, 1994 to control cereal leaf beetle. Harvest occurred on June 17, 1994.

Loudoun - Planted October 7, 1993. Eighty Ibs N/A were applied April 1, 1994. Harvest occurred July 5, 1994.

Orange - Planted October 14, 1993. Preplant fertilizer was 600 lbs 10-10-10 September 30, 1993. Emergence occurred October 22, 1993. Sixty lbs N/A were applied April 8, 1994. Harvest was on June 22, 1994.

Brand/Variety	Blacks	sburg	Warsa	w Painte	r Holla	nd Black	stone	Loud	oun	Orang	ge Average
bu/a											
COKER 916	87	74	76		71	-	74		76		59
89 COKER 983	83	-/6	- 77		81		71		77		65
87		77									
COKER 9543-B	91	01	84		88	+	69		79		62
COKER 9835	88	01	87		93	+	72		83		64
103	+	84	+								
COKER 9803	86	= 2	73	-	77		68		70		56
81 COVED 2024	-	73	_***		05				0.1		5 0
COKER 9904	90	0.0	81		85		77		81		58
91	0.0	80	~~		70		70		70		50
FFR511W	88		77		13		72		72		52
-	91		75	-			-		o -		
FFR555W	95	0.0	86		74		76		85		65
96	0.1	82	+		07		70		00		(2)
FFR555W-B	91		87		87	+	72		82		63
96		82	+					60			
FFR568 76	-	77		73		70		68		58	
92		73	-								
FFR568-B	76	-	74	-	73		67		62	-	52
-	78	-	69	_***							
FFR EXP 392	87		80		76		79		79		64
94		80									
GA-GORE	96		83		63	-	77		80		65
104	+	81									
HICKORY	98		76		83		70		75		65
88		80									
HOFFMAN 21-E	3 80	-	79		55	-	69		68		56
104	+	73	-								
HOFFMAN 89-E	3 83	-	75		72	-	64		64	-	57
79	-	72	-								
JACKSON	104	+	82		89	+	74		78		63
94		84	+								
MADISON	93		81		71	-	72		78		60
95		79									
MASSEY	86		74	-	78		71		79		56
85		75	-								
PENNMORE	87		81		68	-	60	-	74		55
-	95		74	-							
PIONEER 2548	93		81		64	-	70		77		65
86		76	-								
PIONEER 2548-	В	99	+	80		73		71		72	
58		88		77							
PIONEER 2566	90		77		73		73		76		63
95		78									
PIONEER 2580	101	+	87		86	+	72		77		65
93		83	+								

Table 6. Yield performance of entries in the Virginia State Wheat Test, 1993-94.*

PIONEER 2684	94		78		84		70		75		58
84		78									
PIONEER XW52	22	92		89	+	92	+	72		87	
59		98		84	+						
SALUDA	95		71	-	70	-	67		67		59
92		75	-								
SALUDA-B	98		84		83		69		75		63
95		81					-				
STINE 451	92		71	-	71	-	70		64	-	62
91 WAREFEED D	0.4	75	-		- 1		70		-		(1
WAKEFIELD-B	94	01	87		/1	-	/9		/6		61
100	0.4	81	70		71		70		77		(\mathbf{a})
GA 831585	84	76	/8		/1	-	12		//		62
92 VV 92C 1C 2	02	/6	-		97	1	75		77		(1
KY 85C-10-2	95	70	/6		80	+	15		//		01
87 MD90071 56	02	19	70		61		67		72		61
MD80071-30 87	92	74	/0		01	-	07		12		01
07 VA01 51 20	Q/	/4	- 85		85		77		86		66
104	94 +	85	+		85		//		80		00
VA92-51-12	99	+	83		90	+	73		80		60
99	,,	84	+		70	I.	15		00		00
VA93-52-24	87	01	89	+	89	+	84	+	79		61
97	07	84	+		0,		01		12		01
VA93-52-55	89	01	86		90	+	78		82		63
95	•••	83	+								
VA93-52-60	102	+	88	+	90	+	85	+	84		68
+	100		88	+							
VA93-54-185	92		82		82		79		84		64
92		82	+								
VA93-54-211	91		89	+	79		79		82		58
93		81									
TRICAL 498**	93		95	+	83		80		104	+	64
108	+	89	+								
LSD (0.05)	8		7		7		12		11		6
10		3									
Location Average	e 91		81		79		72		77		61
93		79									
Statewide Averag	ge	79									

Statewide Average

* 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.
*** The poor yield performance of these varieties at some locations in 1994 may have been due to the thin stand obtained because of inferior seed quality.

Brand/Variety	Blackst	ourg	Warsav	v Painter	Hollanc	l Blackst	one	Orange	Average	e	
bu/a	0.6		0.1				<i>(</i> 0		60		
COKER 916 79	86 -	-	81	-	74	-	68		69		90
COKER 983 79	87 -		86		71	-	68		74		90
COKER 9803 80	93 _**		85		78		66		66		89
COKER 9835 +	89 86	+	93		87	+	72		75		99
COKER 9904 81	86	-	85		80		72		75		89
FFR511W 78	89 -		81	-	73	-	69		62	-	89
FFR555W	99	+	95	+	74	-	74		79	+	100
+ FFR555W-B	87 95	+	99	+	85	+	75		77		99
+	89	+									
FFR568 82 78	-	86		72	-	69		64		89	
FFR568-B	79 76	-	86		75	-	65		58	-	86
FFR EXP 392	78 87		85		75	-	72		74		94
GA-GORE 84	91		89		72	-	74		76		98
HICKORY 82	94		82	-	82		72		70		88
JACKSON 89	102 +	+	94	+	91	+	74		74		93
MADISON 83	95		90		77		69		69		93
MASSEY	84 77	-	79	-	78		69		69		84
PIONEER 2548 82	94		89		74	-	67		74		92
PIONEER 2548- 94	В	100 85	+	90		79		72		71	
PIONEER 2566 79	86 -	-	77	-	79		65		68		96
PIONEER 2580	101 +	+	93		88	+	70		74		92
PIONEER 2684 84	96		88		85	+	68		72		93
SALUDA 79	92		82	-	75	-	63	-	67		94
SALUDA-B 86	97 +		92		84		70		69		97
WAKEFIELD-B 85	92		92		78		76		71		97

Table 7. Two year average yield performance of entries in the Virginia State Wheat Tests, 1993 and 1994.*

MD80071-56 78	88		85		71	-	65	67	88
VA91-51-20 86	95 +		90		79		76	77	97
VA92-51-12 89	98 +	+	96	+	92	+	75	73	98
LSD (0.05) 3	6		6		5		7	8	6
Location Avera 83	nge 92		88		80		71	71	93

Statewide Average 83

* A plus or minus sign indicates a performance significantly above or below the test average, respectively. ** The poor yield performance of these varieties at some locations in 1994 may have been due to the thin stand obtained because of inferior seed quality.

Brand/Variety	Blacks	burg	Wars	aw Paint	er Holla	nd Black	stone	Oran	ge Avera	age	
bu/a											
COKER 916	85 77	-	75	-	79	-	68		67		82
COKER 983	83 75	-	74	-	74	-	69		71		78
COKER 9803	89		82		87		69		67		90
COKER 9835	85	-	83		91	+	73		71		84
COKER 9904	83	-	82		82		74		72		86
80 FFR511W	- 88		76	-	83		69		64		82
FFR555W	78 97	-+	87	+	85		76		78		96
+ FFR555W-B	87 95	+ +	91	+	91	+	77		76		100
+ FFR568 83	89 -	+ 80		81		70		70		83	
78 FFR EXP 392	- 87		80		83		75		71		92
GA-GORE	87		84		83		75		76		91
JACKSON	102	+	89	+	95	+	79	+	73		93
MADISON 81	92		82		81		71		70		86
MASSEY	86 76	-	74	-	80	-	69		65		76
PIONEER 2548	92		83		80	-	69		74		90
PIONEER 2548-1	В	94 84	+	83		86		74		70	
SALUDA 78	91	04	72	-	80	-	68		68		85
SALUDA-B	- 95 -	+	82		92	+	77		69		92
WAKEFIELD-B	96 +	+	84		87		77		73		91
83 VA91-51-20 84	+ 90 +		81		87		74		74		90
LSD (0.05) 2	4		5		5		6		8		6
Location Average 82	e 90		81		85		73		71		88

Table 8. Three year average yield performance of entries in the Virginia State Wheat Tests, 1992, 1993, and 1994.*

Statewide Average 82

Brand/Variety	Blacks	burg	Warsav	w Painter	Hollan	d Blackst	one	Loudo	un	Orange	Average
lbs											
COKER 916	56.3		59.0		59.8		59.8		59.2		56.0
60.5		58.6									
COKER 983	56.8	+	60.4	+	61.1	+	61.6	+	60.4		57.9
+	59.9		59.7	+							
COKER 9543-B	56.8	+	59.8	+	59.9		61.1	+	61.3		57.9
+	60.4		59.5	+							
COKER 9803	57.2	+	59.8	+	60.7	+	61.6	+	62.7		57.2
+	60.9	+	59.9	+							
COKER 9835	55.1	-	57.8		58.1	-	59.2	-	61.6		55.4
-	58.4	-	57.8	-							
COKER 9904	55.4		57.5	-	60.4	+	60.4		58.2		55.1
-	59.7		58.1								
FFR511W	54.2	-	57.2	-	58.2	-	57.8	-	59.8		55.4
-	58.4	-	57.2	-							
FFR555W	54.5	-	57.9		58.3		59.4	-	60.6		55.5
-	58.4	-	57.7	-							
FFR555W-B	54.6	-	57.7		58.5		59.3	-	60.5		55.3
-	57.5	-	57.0	-							
FFR568 55.8		58.8		58.8		60.1		61.4		56.0	
59.8		58.6									
FFR568-B	56.5		58.4		59.1		60.2		58.6		55.8
59.6		58.3									
FFR EXP 392	56.6		58.8		60.6	+	61.4	+	60.7		56.3
60.3		59.2	+								
GA-GORE	54.1	-	58.4		58.9		59.4	-	61.5		55.5
-	60.0		58.2								
HICKORY	56.7	+	59.0		60.2		60.3		60.7		56.6
+	59.9		59.0	+							
HOFFMAN 21-E	851.6	-	54.0	-	54.3	-	58.2	-	58.0		50.8
	57.1	-	54.8	-							
HOFFMAN 89-E	8 58.1	+	60.9	+	60.9	+	62.3	+	60.0		58.3
+	61.5	+	60.3	+							
JACKSON	55.8		59.4		60.3		60.8		62.1		56.0
60.8	+	59.2	+		5 0 0		5 0 0				
MADISON	55.7		57.7		59.0		58.3	-	57.4		55.2
-	58.6	-	57.4	-	(0.2		(0. A		(1.0		
MASSEY	57.0	+	58.5		60.2		60.4		61.0		56.7
	60.4		59.1	+	50.0		(0.5		(1.2		56.0
PENNMORE	56.7	+	38.3		59.8		60.5		61.3		56.0
28.3	-	58.7	67 0		<i>67</i> 0		(0.1		(0.0		55 A
PIONEER 2548	54.5	-	57.8		57.3	-	60.1		60.8		33.4
-	00.1	55.2	57.9	-		57.0		50.7		(0.0	
PIONEER 2548-1	Б	55.2 50.7		57.9		57.0	-	39.7		60.9	
JJ.J	-	39.1	57.0	51.9	-		60.5		60.0		55.0
FIONEEK 2300	59.0 59.2	-	57.9 57.9		39.2		00.3		00.9		55.0
- DIONEED 2500	50.5 54.6	-	57.0 57.0	-	58 2		50.8		58 8		54.0
1 IOINEER 2300	54.0 60.2	-	57.7 57.7		50.5		59.0		20.0		JH.7
-	00.5		51.1	-							

Table 9. Test weight of entries in the Virginia State Wheat Test, 1993-94.*

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	PIONEER 2684	56.9	+	59.7	+	59.9		61.5	+	62.6		57.0
PIONEER XW32255.959.059.059.960.160.6 56.4 60.0 58.8 56.4 59.5 $+$ 61.6 $+$ 62.2 57.4 $+$ 61.1 $+$ 59.7 $+$ 61.6 $+$ 62.7 57.3 $+$ 61.4 $+$ 59.6 $+$ 57.4 $ 58.7$ 60.7 60.9 54.0 $ 59.6$ 57.8 $ 57.5$ $ 60.0$ 61.0 56.0 $ 59.6$ 57.8 $ 58.2$ GA 831585 57.0 $+$ 59.4 59.1 61.6 $+$ 61.8 56.8 $+$ 60.6 59.4 $+$ $ -$ KY 83C-16-2 55.9 59.1 59.8 61.0 61.6 56.6 $+$ 60.7 $+$ 59.2 $+$ $ -$ MD80071-56 55.6 58.9 58.1 $ 60.2$ 61.3 56.6 $+$ 69.7 $+$ 59.9 $+$ 61.4 $+$ 61.1 $+$ 62.9 56.9 $+$ 60.7 $+$ 59.9 $+$ 61.4 $+$ 61.1 $+$ 62.9 56.9 $+$ 60.7 $+$ 59.9 $+$ 60.0 61.5 $+$ 61.8 56.5 60.2 59.3 $+$ 59.1 60.1 61.2 $+$ 60.6 56.0 59.2 58.9	+ NONEED XXX52	60.8	+	59.7	+		50.0		(0.1		(0)(
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	PIONEER XW52	22	55.9		59.0		59.9		60.1		60.6	
SALUDA56.459.5+60.5+61.6+62.257.4+61.1+59.7+59.661.3+62.757.3+61.4+59.6+58.760.760.954.059.657.8WAKEFIELD-B56.157.957.5-60.061.056.0 59.9 58.2GA 83158557.0+59.459.161.6+61.856.8+60.659.4+MD80071-5655.658.958.1-60.261.356.6+60.7+59.9+61.4+61.1+62.956.9+60.7+59.9+61.4+61.1+62.956.9+60.7+59.9+61.4+61.1+62.956.9+60.7+59.9+60.061.5+61.856.560.259.3+VA92-51-1256.7+59.160.161.2+60.656.059.258.9VA93-52-2456.9+59.160.161.2+60.656.059.358.359.660.3	56.4	5 C A	60.0	50.5	58.8	(0 F		(1.((2,2)		- - A
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SALUDA	56.4		59.5 59.7	+	60.5	+	61.6	+	62.2		57.4
SALUDA-B56.459.259.6 61.3 $+$ 62.7 57.3 $+$ 61.4 $+$ 59.6 $+$ 51.3 $+$ 62.7 57.3 STINE 451 54.0 $ 57.4$ $ 58.7$ 60.7 60.9 54.0 $ 59.6$ 57.8 $ 57.5$ $ 60.0$ 61.0 56.0 59.9 58.2 57.0 $+$ 59.4 59.1 61.6 $+$ 61.8 56.8 $+$ 60.6 59.4 $+$ $ 59.8$ 61.0 61.6 56.6 $+$ 60.7 $+$ 59.2 $+$ $ 60.2$ 61.3 56.6 $+$ 60.7 $+$ 59.2 $+$ $ 60.2$ 61.3 56.6 $+$ 60.7 $+$ 59.9 $+$ 61.4 $+$ 61.1 $+$ 62.9 56.9 $+$ 60.7 $+$ 59.9 $+$ 61.4 $+$ 61.1 $+$ 62.9 56.9 $+$ 60.7 $+$ 59.9 $+$ 61.4 $+$ 61.1 $+$ 62.9 56.9 $+$ 60.7 $+$ 59.9 $+$ 60.0 61.5 $+$ 61.8 56.5 60.2 59.3 $+$ 59.1 60.1 61.2 $+$ 60.6 56.0 59.2 58.9 58.3 58.3 58.3 58.3 58.3 58.3 58.3 58.3		61.1 56.4	+	59.7	+	50 C		(1.2		(0 , 7)		<i>c</i> a 2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SALUDA-B	56.4		59.2		59.6		61.3	+	62.7		57.3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	+ 071015 451	61.4 54.0	+	59.6	+	50 7		(0,7)		(0.0		510
-59.657.8-WAKEFIELD-B56.157.957.5- 60.0 61.0 56.0 59.9 58.2 GA 831585 57.0 + 59.4 59.1 61.6 + 61.8 56.8 + 60.6 59.4 +KY 83C-16-2 55.9 59.1 59.8 61.0 61.6 56.6 + 60.7 + 59.2 +MD80071-56 55.6 58.9 58.1 - 60.2 61.3 56.6 + 59.9 58.6 VA91-51-20 57.4 + 59.9 + 61.4 + 61.1 + 62.9 56.9 + 60.7 + 59.9 +VA92-51-12 56.7 + 59.0 60.0 61.5 + 61.8 56.5 60.2 59.3 +VA93-52-24 56.9 + 59.1 60.1 61.2 + 60.6 56.0 59.2 58.9 VA93-52-55 54.4 - 58.1 59.6 60.3 61.0 55.8 59.3 58.3	511NE 451	54.0	-	57.4	-	58.7		60.7		60.9		54.0
WAREFIELD-B56.157.957.3-60.061.056.0 59.9 58.2 GA 831585 57.0 + 59.4 59.1 61.6 + 61.8 56.8 + 60.6 59.4 + 61.0 61.6 56.8 + 60.7 + 59.2 +MD80071-56 55.6 58.9 58.1 - 60.2 61.3 56.6 + 59.9 58.6 VA91-51-20 57.4 + 59.9 + 61.4 + 61.1 + 62.9 56.9 + 60.7 + 59.9 + 61.4 + 61.1 + 62.9 56.9 + 60.7 + 59.9 + 60.0 61.5 + 61.8 56.5 60.2 59.3 +VA93-52-24 56.9 + 59.1 60.1 61.2 + 60.6 56.0 59.2 58.9 59.6 60.3 61.0 55.8 59.3 58.3 - 59.6 60.3 61.0 55.8		59.6		57.8	-	57.5		(0.0		(1.0		560
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	WAKEFIELD-B	56.1	50.2	57.9		57.5	-	60.0		61.0		56.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	59.9	67 0	58.2	50.4		50.1		(1.((1.0		56.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	GA 831585	57.0	+	59.4		59.1		61.6	+	61.8		56.8
KY 83C-16-2 55.9 59.1 59.8 61.0 61.6 56.6 + 60.7 + 59.2 +MD80071-56 55.6 58.9 58.1 - 60.2 61.3 56.6 + 59.9 58.6 60.2 61.3 56.9 + 60.7 + 59.9 + 61.4 + 61.1 + 62.9 56.9 + 60.7 + 59.9 + 61.4 + 61.5 + 61.8 56.5 60.2 59.3 + 60.0 61.5 + 61.8 56.5 60.2 59.3 + 60.1 61.2 + 60.6 56.0 59.2 58.9 60.3 61.0 55.8 59.3 58.3 - 59.6 60.3 61.0 55.8	+	60.6 55.0		59.4	+	50.0		(1.0		(1)		566
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	KY 83C-16-2	55.9 (0.7		59.1		59.8		61.0		61.6		56.6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	+ MD90071 56	60./	+	59.2	+	50.1		(0.2		(1.2		566
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MD800/1-56	55.6		58.9		58.1	-	60.2		61.3		56.6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	+	59.9		58.6		(1.4		(1.1		(2)		560
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	VA91-51-20	5/.4	+	59.9	+	61.4	+	61.1	+	62.9		56.9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	+	60./	+	59.9	+	(0.0		(1.5		(1.0		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	VA92-51-12	56.7	+	59.0		60.0		61.5	+	61.8		56.5
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	60.2	56.0	59.3	+		(0.1		(1.0		(0)(56.0
59.2 58.9 VA93-52-55 54.4 - 58.1 59.6 60.3 61.0 55.8 59.3 58.3	VA93-52-24	56.9	+	59.1		60.1		61.2	+	60.6		56.0
VA93-52-55 54.4 - 58.1 59.6 60.3 61.0 55.8 59.3 58.3	59.2	5 4 4	58.9	50 1		50 C		(0.2		(1.0		<i></i>
59.3 58.3	VA93-52-55	54.4	-	58.1		59.6		60.3		61.0		55.8
$V_{A,0,2} = C_{A,0,2} = C_{A$	59.3 VA02.52.60	55.2	58.3	50.2		(0.0		57 7		(1.4		560
VA93-52-60 55.2 58.3 60.9 + 57.7 - 61.4 56.0	VA93-52-60	55.2	50.4	58.5		60.9	+	57.7	-	61.4		56.0
60.1 58.4 NA02 54 185 56 5 50 1 50 6 60 50 7 57 2	60.1 VA02 54 195		58.4	50.1		50 ((0.0		50.7		57.0
VA93-34-185 56.5 59.1 59.6 60.8 59.7 57.2	VA93-54-185	50.5		59.1		59.6		60.8		59.7		57.2
+ 59.8 58.9 XA02.54.211 57.1 5 50.5 5 60.0 50.4 57.4	+	59.8		58.9 50.5		(0.0		(0,7)		50.4		57 A
$\sqrt{A93-34-211}$ 5/.1 + 59.5 + 60.8 + 60.7 59.4 5/.4	VA93-54-211	5/.1	+	59.5 50.4	+	60.8	+	60.7		59.4		57.4
+ 00.9 $+$ 59.4 $+$		00.9 49.4	+	59.4	+	52.1		52.0		52.0		10.0
$1 \text{ RICAL } 498^{++} 48.4 - 55.0 - 52.1 - 55.0 - 55.8 - 48.0$	IRICAL 498	48.4	-	55.0	-	52.1	-	55.0	-	55.8	-	48.0
- 55.3 - 51.9 -	-	33.3	-	51.9	-							
LSD (0.05) 0.8 1.0 1.1 0.8 3.6 0.5	LSD (0.05)	0.8		1.0		1.1		0.8		3.6		0.5
1.0 0.5	1.0		0.5									
Location Average 55.9 58.5 59.3 60.3 60.6 56.1	Location Average	e 55.9		58.5		59.3		60.3		60.6		56.1
59.7 58.5	59.7		58.5									
Statewide Average 58.5	Statewide Averag	ge	58.5									

* 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.

Brand/V	Test /ariety (Bu/A)	Date Yield (Lb)	Leaf Weight (Mar 31	Powder Headed +)	y Height (In)	Soil Lodging (%)	Leaf gRust (%)	Mildew (%)	Virus (0-5)	Septoria (0-9)	a	
	(7)	(7)	(3)	(3)	(4)	(2)	(2)	(1)	(2)			
COKER	916	76	-	58.6		30	-	37		10	+	4
COVED	16	+ 77	3	+ 50.7	4 +	+ 22		25		1		50
COKER	+	19	+	0	I	2	_	35	-	1		50
COKER	9543-B	81	·	59.5	+	31	-	36	-	4		3
	9		2		4	+						
COKER	9803	73	-	59.9	+	32	-	34	-	1		4
	21	+	0		2	-						
COKER	9835	84	+	57.8	-	33		33	-	1		0
	16	+	2	· · · ·	4	+						
COKER	9904	80		58.1		31	-	38	+	13	+	0
EED 5111	1	-	2		4	+		27		•		
FFRSIIN	W A	15	-	57.2	-	32	-	31		3		4
EED 5553	4 M	- 00	1	577	2	+ 24	1	27		0		0
FFKJJJV	vv ⊥	82 20	+ +	0	-	24 2	Ŧ	57		0		0
FFR 555V	W-B	29 82	+	57.0	_	235	-+	37		1		4
1110555	16	+	0	57.0	2	-		51		1		т
FFR568	73	_	58.6		36	+	39	+	0		3	
	13		2		3		• •				-	
FFR568-	В	69	-	58.3		36	+	38	+	0		1
	2	-	0		2	-						
FFR EXI	P 392	80		59.2	+	35	+	38	+	0		6
	0	-	0		2	-						
GA-GOF	RE	81		58.2		29	-	37		10	+	0
manor	4	-	3	+	3	•		•				0
HICKOR	ξΥ	80		59.0	+	30	-	38	+	1		8
HOFFM	+ • • • • • • •	18	+	0		3 25	1	27		0		0
ΠΟΓΓΙΝΙ	AN 21-E 0	5/5	-	54.8 ⊥	- ว	33	Ŧ	37		0		0
HOFFM	0 AN 89-F	- 272	4	60.3	2 +	- 35	+	30	+	0		0
11011 101	7	, 12	4	+	5	+	,	57		U		0
JACKSC	, DN	84	+	59.2	+	34	+	38	+	4		4
	15	+	0		2	-						
MADISC	DN	79		57.4	-	32	-	38	+	1		0
	20	+	0		3							
MASSE	Y	75	-	59.1	+	34	+	41	+	11	+	4
	5	-	0		3							
PENNM	ORE	74	-	58.7		36	+	43	+	2		1
	36	+	0		2	-				_		
PIONEE	R 2548	76	-	57.9	-	33		36	-	0		3
DIONEE	19 D 25 49 1	+ D	1		5		22		26		1	
PIONEE	к 2548-1 4	в	//		37.9 2	-	55 1		30	-	1	
DIONEE	4 D 2566	78	9	57.8	3	+ 33	1	-		0		0
TUNEE	17	+	0	57.0	4	+		50	-	0		U
PIONEE	R 2580	83	+	57.7	-	32	-	37		0		1

Table 10. Summary of performance of entries in the State Wheat Test, 1993-94.*

4	-	0		2	-						
PIONEER 2684	78		59.7	+	31	-	37		1		1
11		0		1	-						
PIONEER XW52	22	84	+	58.8		33		32	-	0	
1		2	-	0		1	-				
SALUDA	75	-	59.7	+	33		36	-	1		4
40	+	2		4	+						
SALUDA-B	81		59.6	+	33		37		2		3
24	+	2		3							
STINE 451	75	-	57.8	-	33		37		2		3
31	+	0		4	+						
WAKEFIELD-B	81		58.2		35	+	41	+	1		4
15	+	2		2	-						
GA 831585	76	-	59.4	+	35	+	37		0		1
11		1		2	-						
KY 83C-16-2	79		59.2	+	34	+	37		1		5
2	-	3	+	2	-						
MD80071-56	74	-	58.6		33		40	+	7	+	0
3	-	4	+	4	+						
VA91-51-20	85	+	59.9	+	33		38	+	7	+	4
17	+	0		2	-						
VA92-51-12	84	+	59.3	+	33		38	+	0		1
6		0		1	-						
VA93-52-24	84	+	58.9		35	+	39	+	0		1
1	-	1		4	+						
VA93-52-55	83	+	58.3		34	+	35	-	0		1
0	-	0		3	•						
VA93-52-60	88	+	58.4	-	30	-	37		6		4
0	-	0	.	2	-				0		0
VA93-54-185	82	+	58.9	•	34	+	35	-	0		0
6	0.1	0	5 0 4	2	-		2.6				
VA93-54-211	81	2	59.4	+	33		36	-	I		I
	-	3	+	3	0.1				0		0
TRICAL 498**	89	+	51.9	-	21	-	44	+	0		0
0	-	4	+	5	+						
I SD (0.05)	2		0.5		1		1		5		1
LSD (0.05)	3	2	0.5	1	1		1		5		4
J Test Average	70	2	58 5	1	22		27		2		2
10st Avelage 10	17	1	30.5	3	55		51		2		5
1.0				,							

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