

1985 Wheat Performance Test Results



**James A. Schaffer
Neil Cowen
Paul Rowoth
Calvin Hoenshell
John Cairns**

**Special Report 332
August 1985**

**Agricultural Experiment Station
University of Missouri-Columbia**

Table of Contents

Test Objective	1
1985 Crop Conditions	1
Winter Wheat Varieties Grown in Missouri	2
Commonly Grown Varieties (Table 1)	2
Private Entries in 1985 Tests (Table 2)	3
Variety Plot Test Conditions	4
Test Site Description and Management (Table 3)	5
New Variety Descriptions	6
Wheat Performance Test Results	7
Columbia (Table 4)	7
Spickard (Table 5)	9
Novelty (Table 6)	11
Lamar (Table 7)	13
Bertrand (Table 8)	15
Mt. Vernon (Table 9)	17
Portageville (Table 10)	19
Over All Location Average (Table 11)	21

The Authors

James A. Schaffer is a State Extension Grain Crops Specialist, Neil Cowen is a Visiting Assistant Professor and Wheat Breeder, Paul Rowoth and Calvin Hoenshell are Research Specialists, and John Cairns is an Area Extension Agronomist.

Acknowledgements

The authors recognize and express their appreciation to the following individuals for their part in making the 1985 Wheat Performance Test Trials possible: John Poehlmann, Superintendent, Agronomy Research Center, Columbia; Larkin Langford and Dennis Onks, Superintendents, North Missouri Center, Spickard; Randall Smoot, Foreman, Greenley Memorial Center, Novelty; David Sheats, Lamar; Junior Peters, Bertrand; Al Hoggard, former Mississippi County Area Agronomist; Norman Justus, Superintendent, Southwest Center, Mt. Vernon; Joe Scott, Superintendent, Delta Center, and Al Wrather, Extension Plant Pathologist, Delta Center, Portageville.

The 1985 Missouri Performance Test with Winter Wheat Varieties

James Schaffer, Neil Cowen, Paul Rowoth, Calvin Hoenshell, and John Cairns

Test Objective

The objective of the Missouri wheat performance testing program is to help Missouri growers select the wheat varieties best suited for their areas and conditions. The University of Missouri Agricultural Experiment Station in conjunction with the Missouri Seed Improvement Association and entrants from private companies all cooperate in evaluating both public and private wheat varieties and hybrids for the state of Missouri.

1985 Crop Conditions

The 1985 winter wheat growing season was characterized by relatively wet fall conditions and late planting, particularly in the eastern sections of the state. Consequently, many of the acres that would have normally been planted to wheat in those regions were not planted in the fall of 1984. Those which were planted late did not develop well in the fall. Low yields were the result in most of those regions of the state in 1985.

The winter was relatively mild and winter injury was not commonly a problem for most of the state of Missouri. One major exception would be the northwest and some of the north central parts of the state. Accumulations of snow resulted in ice formation and crusting which appeared to cause smothering damage in those regions of the state.

In the spring of 1985, the wheat broke dormancy quite early and developed approximately two weeks ahead of normal. That was accompanied by disease development in the southern part of the state, however. Powdery mildew was more severe than normal in 1985, but particularly in the Bootheel region. That disease was followed by leaf rust infections throughout the southern part of Missouri. Those infections caused severe yield reductions in southeast Missouri and some slight reductions in southwest Missouri. Septoria Glume Blotch was prevalent throughout southeastern Missouri in 1985. Susceptible varieties were particularly noticeable this year. Septoria Leaf Blotch was a problem throughout the state of Missouri, but particularly in the southern part of the state. This disease was probably the major yield reducer in southwest Missouri. Isolated cases of the strawbreaker disease also resulted in some lodging in southwest Missouri in 1985.

Hessian fly damage was not considered a major problem in 1985. However, there were incidences of stem damage or breakage in southwest Missouri where growers planted prior to the fly-free date. Continued early planting of Hessian fly susceptible varieties will likely cause a continuing problem with that insect. Armyworms were severe in southeast Missouri in 1985 and caused severe defoliation and yield losses in some fields.

Ripening conditions for winter wheat in Missouri were generally favorable throughout the grain filling period this spring. Heading occurred earlier than normal and weather between heading and maturity was generally more favorable than is normally observed in Missouri. Excessively heavy amounts of rainfall also aggravated the disease situation in most of the state during May

and June.

Winter Wheat Varieties Grown in Missouri

According to the Missouri Crop and Livestock Reporting Service, soft red winter wheat accounts for 91% of the total acreage seeded for the 1985 winter wheat crop. Caldwell was the leading variety for 1985 accounting for nearly 29% of all the Missouri wheat acreage. Pike, the previous number one variety, was second with 19% followed by Hart at 11%. Table 1 indicates the varieties commonly grown in the state of Missouri by crop reporting districts.

Table 1. Wheat varieties commonly grown in Missouri and percentage of acreage.

NW		NC		NE	
Caldwell	(20)	Caldwell	(47)	Caldwell	(42)
Pike	(15)	Hart	(15)	Pioneer**	(23)
Wings*	(14)	McNair 1003	(8)	Pike	(15)
WC		C		EC	
Pike	(42)	Caldwell	(28)	Caldwell	(56)
Caldwell	(24)	Pike	(27)	Hart	(19)
Pioneer**	(11)	Pioneer**	(15)	Pike	(9)
SW		SC		SE	
Arthur 71	(30)	Pike	(40)	Pike	(25)
Hart	(18)	Hart	(14)	Caldwell	(21)
Caldwell	(14)	Caldwell	(12)	Rosen	(17)

* - Hard red winter wheat

** - Includes varieties 2550 and 2553.

Privately developed varieties are entered into the Missouri wheat performance test program by their originators or purchasers. Entry is voluntary and entrants choose both the entries and test sites and pay the state a fee for each entry and location to help defray the test expenses. This program is similar to those for corn, sorghum, soybeans and alfalfa. The objective is to provide Missouri growers with performance information on all varieties and hybrids likely to become available in the state.

The 1985 performance test contained 53 soft red winter wheat cultivars and 26 hard red winter wheat cultivars. Of those soft cultivars, 21 were public varieties, 29 were private varieties, and 3 were private hybrids. Of the hard red winter wheats 7 were public varieties, 12 were private varieties, and 7 were private hybrids. Public and private entries were grown together at random in the same tests. Growers interested in more detailed descriptions of private entries should contact the companies directly (Table 2).

Table 2. Private entrants and their entries in 1985 wheat performance tests.

Entrant	Brand	Variety or Hybrid
Nickerson American Plant Breeders RR 2, P.O. Box 411 Brookston, Indiana 47923	Agripro	Blazer
	Agripro	Hunter
	Agripro	Magnum
	Agripro	Southern Belle
	Agripro	NA-SW74-144 NA-SW74-111
Nickerson American Plant Breeders P.O. Box 30 Berthond, Colorado 80513	Agripro	Mustang
	Agripro	Stallion
	Agripro	Thunderbird
	Agripro	Victory
	Agripro	Wings Wrangler
Bailey Seeds, Inc. Box 178, Rt 6 Portland, Indiana 47371	Bailey	4287
	Bailey	4278R
Cargill Seed Division 2540 East Drake Rd Ft. Collins, Colorado 80525	Bounty Hybrid	202
	Bounty Hybrid	203
	Bounty Hybrid	205
	Bounty Hybrid	301
	Bounty Hybrid	310
Rohm and Haas Seeds, Inc. P.O. Box 507 Lebanon, Indiana 46052	Coker	833
	Coker	916
	Coker	983
	Hybrex Hybrid	HW 3015
	Hybred Hybrid	HW 3021
	Hybred Hybrid McNair	HW 3022 1003
Garst Seed Company Eminence Route Municipal Airport Garden City, Kansas 67846	Garst	EW 3010
Hartzler's Seed Co. Rt 1, P.O. Box 458 Harrisonville, MO 64701	Hartzler	2200
	Hartzler	2300
	Hartzler	2400
Hill Seed Company Box 1 Jewell, Iowa 50130	Hill Hill	Gentry Jesse
MCB Seed Co. RR 3, Box 9 Monroe City, Missouri 63456	MCB Seeds MCB Seeds	Ranger Rival

Table 2. continued

Merschman, Inc. 208 Second St. West Point, Iowa 52656	Merschman Merschman Merschman Merschman Merschman	Bintee III Genie II Julie Katie II Meggie
Pioneer Hi-Bred Intl., Inc. 7000 Pioneer Parkway Box 256 Johnston, Iowa 50131	Pioneer Pioneer Pioneer	2165 2550 2553
HybriTech Seed 1831 Woodrow Wichita, Kansas 67203	Quantum Hybrid Quantum Hybrid	XH217A 576
Ray-Carroll Seeds Box 267 Norborne, Missouri 64668	Ray-Carroll	Brandy
Reeds Seeds, Inc. P.O. Box 130 Chillicothe, Missouri 64601	Reed Reed	1004 EXP 1008
Seed Research Division Agrigenetics Corporation RR 2, Box 47A Scott City, Kansas 67871	Seed Research Seed Research Seed Research	AGC 5630 AGC 5667 AGC 5693

Variety Plot Test Conditions

Test site descriptions, fertilizers applied, and other management items are listed in Table 3. The test consisted of 6-row plots, 20 feet long, replicated four times. Plots were trimmed to 15 feet in length prior to harvest and were harvested with a plot combine. Plantings were made in seven inch rows and all plots were seeded at the rate of 1.5 million seeds per acre (2500 seeds per plot) - equivalent to approximately 1 and 1/2 bushels of seed per acre.

Table 3. Test site description and management in 1985.

Location and Cooperator	Date Planted	Date Harvested	Fertilizers Applied (lbs/acre)			
			N	P ₂₀₅	K ₂₀	
Columbia	10-3	6-27	F	15	60	60
			S	100	--	--
Spickard Larkin Langford Dennis Onks	9-28	7-3	F	15	60	60
			S	50	--	--
Novelty Randall Smoot	9-27	7-1	F	15	60	60
			S	50		
Lamar David Sheats	11-5	6-28	F	50		
			S	40	--	--
Bertrand Junior Peters	11-9	6-18	F	--	45	100
			S	100	--	--
Mt. Vernon Calvin Hoenshell	10-11	6-25	F	15	60	60
			S	50	--	--
Portageville Virgil Sparks John Cairns	11-8	6-19	F	15	60	60
			S	70	--	--

The Spickard, Novelty, Columbia, and Mt. Vernon locations were all planted in a timely manner. The Lamar, Bertrand, and Portageville locations planting dates were delayed due to heavy rainfall in mid to late October. Those sites did not tiller well in the fall and subsequent yields on them were reduced accordingly. Although the winter was relatively mild for most of the sites in the state, winter injury was observed at most of the northern sites. The two Florida varieties 301 and 302 were particularly noticeable in that respect.

Severe disease infections in southern Missouri accompanied an early warm spring and relatively high rainfall conditions. Powdery mildew, leaf rust, and Septoria glume blotch were of particular importance in the Bootheel region. Varieties at Bertrand and Portageville were rated extensively for leaf rust and Septoria glume blotch. The results from those locations should be considered when planting varieties for subsequent years. Septoria leaf blotch was the most prominent disease noted in southwest Missouri. Those varietal response ratings should be observed and noted carefully since Septoria leaf blotch is often the most damaging disease in the state of Missouri. Northern locations were not severely infected with diseases.

Disease ratings are recorded in the tables as a percentage of the flag leaves infected with the exception of powdery mildew. Powdery mildew ratings are

general ratings as a percentage of the lower part of the canopy infected.

The maturity dates taken at Columbia were indicators of physiological maturity, not harvest ripeness. The date indicated was the date upon which no green color could be observed in the heads.

New Variety Descriptions

Two new releases from Florida were prominent in the test in 1985. Florida 301 and Florida 302 are both quite susceptible to winter injury in the state of Missouri. Consequently, they may be best adapted to the southern regions of the state. However, they show excellent resistance to many foliar diseases. Florida 302 appears to be the most likely of the two to be adapted to Missouri conditions. It is of medium height, quite resistant to lodging, has large seed weight, and is of medium maturity.

Saluda and Tyler are two varieties released by Virginia. Saluda is quite short, medium in maturity and appears quite resistant to diseases with the exception of Septoria leaf blotch where it would be considered moderately susceptible. Tyler is a high yielding variety but is quite tall and susceptible to many of the foliar leaf diseases, particularly leaf rust. Consequently, it would require considerable management and possible fungicide application to be adapted to Missouri.

Becker and Adena are two relatively new releases from Ohio. Becker is short in stature, slightly later in maturity than Hart or Arthur 71 and appears to be quite susceptible to powdery mildew. It has performed quite well in the northern areas of the state where diseases have not been a problem. Test weight on Becker is quite low. Adena is a somewhat older release from Ohio that has many of the same characteristics of Becker, but it yields somewhat less than Becker.

Adder is a new release from Purdue University. It is quite short and stands well, is slightly later in maturity than Hart or Arthur 71 and it has quite good resistance to most foliar leaf diseases. It did not yield as well in northern Missouri as in the southern part of the state in 1985. Under those conditions where foliar diseases are expected to be a problem, Adder might be a good choice for growers.

MO 9965 and MO 10503 are two lines of Missouri wheat breeding program that were tested across the state in 1985. These are not released varieties and no seed of them will be available at the present.

Tam 107 is the only new hard winter wheat in the test this year. Over all locations, it was the highest yielding of the hard winter wheats in the test. It is relatively early in maturity and quite short. It does appear to be quite susceptible to the Septoria diseases, particularly Septoria leaf blotch.

For information on new private varieties, please consult the entrants of those numbers listed in Table 2.

TABLE 4. WHEAT PERFORMANCE TEST RESULTS--COLUMBIA.

BRAND	NAME	1985 YIELD BU/A	2 YR AVG BU/A	3 YR AVG BU/A	HT IN	LODG ING #	SURV IVAL %	TEST WT LB/BU	HEAD ING DATE	MATU RITY DATE	SEED WT MG
SOFT RED WINTER WHEATS											
	MO 10503	78**	--	--	39	4.8	95	58.6	5/04	6/17	34.0
	FLORIDA 302	77*	--	--	40	2.0	76	57.1	5/07	6/17	36.4
MCHAIR	1003	76*	69	67	41	3.1	89	55.2	5/05	6/18	35.9
HARTZLER	2200	75*	70	--	43	5.1	99	58.4	5/05	6/19	31.5
HYBREX	HW 3015 (H)	75*	--	--	45	3.9	83	56.8	5/05	6/19	36.9
HYBREX	HW 3021 (H)	74*	--	--	43	3.1	85	55.1	5/05	6/19	35.1
HARTZLER	2400	74*	--	--	41	4.0	94	55.6	5/05	6/16	36.3
	SALUDA	74*	--	--	36	4.4	85	58.7	5/05	6/15	28.7
	BECKER	73*	--	--	37	1.1	93	52.3	5/08	6/20	29.5
	PIKE	73*	70	65	42	4.0	88	58.8	5/05	6/19	31.5
HARTZLER	2300	73*	--	--	39	4.3	94	57.3	5/05	6/18	33.0
AGRIPRO	NA-SW78-111	72*	--	--	40	4.6	88	57.2	5/03	6/15	30.2
	MO 9965	72*	--	--	38	1.9	88	57.5	5/04	6/15	29.5
	ROSEN	71	66	62	38	3.4	93	56.4	5/05	6/17	32.8
MERSCHMAN	JULIE	71	--	--	44	4.1	91	55.5	5/07	6/20	30.2
SCHULTZ	JMS 222	71	70	65	43	5.3	95	59.3	5/05	6/15	37.7
AGRIPRO	NA-SW74-144	71	--	--	42	4.0	93	54.5	5/03	6/16	34.7
	TYLER	71	--	--	44	3.6	94	56.2	5/07	6/20	29.0
RAY-CARROL	BRANDY	70	--	--	44	3.2	93	55.3	5/07	6/19	30.4
MCB SEEDS	RIVAL	69	--	--	44	4.1	89	54.2	5/07	6/21	31.1
MERSCHMAN	GENIE II	69	65	59	44	3.1	86	54.9	5/07	6/19	30.4
BAILEY	4287	69	--	--	42	5.1	90	57.7	5/05	6/20	30.1
AGRIPRO	MAGNUM	69	63	--	38	4.2	91	56.8	5/04	6/13	23.8
REED	1004	69	67	62	42	4.6	93	59.4	5/05	6/16	38.2
REED	EXP 1008	68	--	--	44	4.0	94	54.8	5/07	6/19	28.8
	NELSON	68	65	57	42	5.4	90	58.7	5/03	6/12	30.3
COKER	916	67	--	--	38	5.9	88	57.8	5/01	6/12	30.8
	SCOTTY	67	66	58	39	4.1	85	57.9	5/08	6/19	29.8
PIONEER	2550	66	66	62	39	6.3	98	57.3	5/07	6/17	30.8
GARST	EW 3010	66	--	--	38	4.2	95	58.3	5/07	6/23	26.9
HILL	GENTRY	66	65	--	43	5.4	96	59.7	5/07	6/17	30.4
	ADENA	66	62	59	38	3.5	91	56.8	5/07	6/17	26.4
	HART	65	62	57	43	5.2	91	57.0	5/05	6/15	32.3
	CALDWELL	65	68	68	39	4.0	80	58.2	5/07	6/16	25.9
MERSCHMAN	KATIE II	65	64	57	39	4.9	83	57.5	5/07	6/19	31.1
MERSCHMAN	BINTEE III	64	63	56	42	3.3	88	55.5	5/06	6/20	29.5
MCB SEEDS	RANGER	64	--	--	38	4.2	89	57.0	5/07	6/19	31.7
AGRIPRO	BLAZER	64	59	--	42	6.1	93	58.0	5/04	6/12	26.4
COKER	833	64	--	--	40	2.9	91	56.5	5/08	6/19	28.9
PIONEER	2553	64	65	65	40	2.1	86	58.0	5/06	6/20	36.3
BAILEY	COMPTON	63	61	--	40	5.2	98	58.6	5/07	6/16	32.5
	4278R	62	--	--	48	4.3	93	57.6	5/05	6/22	31.3
	ADDER	61	--	--	37	2.6	86	56.2	5/08	6/19	27.4
	DOUBLECROP	61	59	50	40	4.0	88	57.3	4/29	6/11	31.4
	FILLMORE	61	59	61	40	0.7	80	57.8	5/12	6/22	25.9
	AUBURN	61	63	--	40	0.7	81	58.4	5/11	6/21	26.5
	FLORIDA 301	55	--	--	41	4.9	44	56.9	5/02	6/14	34.4
	ARTHUR 71	55	54	47	41	6.9	85	58.2	5/05	6/14	31.8

(CONTINUED)

TABLE 4. WHEAT PERFORMANCE TEST RESULTS--COLUMBIA (CONTINUED).

BRAND	NAME	1985 YIELD BU/A	2 YR AVG BU/A	3 YR AVG BU/A	HT IN	LODG ING #	SURV IVAL %	TEST WT LB/BU	HEAD ING DATE	MATU RITY DATE	SEED WT MG
HARD RED WINTER WHEATS											
	TAM 107	71	--	--	39	4.8	81	56.9	5/04	6/17	33.8
QUANTUM	XH 217A (H)	70	68	--	47	4.7	94	54.7	5/07	6/22	30.9
AGRIPRO	THUNDERBIRD	66	--	--	43	5.4	94	58.6	5/05	6/16	31.1
AGRIPRO	STALLION	66	--	--	37	3.4	93	59.8	5/04	6/14	28.3
	ARKAN	65	63	56	39	5.9	88	56.9	5/05	6/14	29.6
PIONEER	2165	65	--	--	38	2.7	78	57.4	5/05	6/18	29.8
AGRIPRO	VICTORY	64	--	--	40	3.9	91	55.1	5/09	6/20	28.2
AGRIPRO	WRANGLER	59	58	48	37	6.4	91	57.1	5/02	6/13	31.5
SEED RES.	AGC 5693	59	53	50	40	4.6	96	57.7	5/07	6/14	32.7
MERSCHMAN	MEGGIE	57	55	--	39	5.7	74	60.7	5/08	6/20	26.4
HILL	JESSE	57	57	--	40	5.0	86	57.1	5/05	6/16	31.7
SEED RES.	AGC 5667	57	--	--	39	7.0	94	57.8	5/04	6/15	31.8
AGRIPRO	MUSTANG	56	56	51	38	6.1	85	56.3	5/03	6/14	31.5
	CENTURA	55	59	55	43	6.5	80	57.0	5/10	6/19	28.9
AGRIPRO	WINGS	54	60	55	41	7.4	75	58.9	5/04	6/17	27.7
	NEWTON	53	54	48	40	3.3	85	57.4	5/09	6/17	30.6
	VONA	51	51	49	36	4.6	66	56.5	5/06	6/15	25.8
	TAM 105	49	55	--	41	5.1	80	55.9	5/09	6/20	28.9
SEED RES.	AGC 5630	47	--	--	35	6.2	44	58.5	5/05	6/17	29.7
	CENTURK 78	46	54	52	41	6.8	83	56.5	5/10	6/20	29.8
	LSD .05	7.0			1.5	1.5	11	2.1	1.4	2.2	2.9
	C.V. %	7.7			2.6	25	9	2.7	0.8	1.0	6.7

** - HIGHEST YIELDING VARIETY IN THE TEST.
 * - INDICATES THOSE VARIETIES WHICH DO NOT DIFFER SIGNIFICANTLY IN YIELD FROM THE HIGHEST
 (H) - INDICATES A HYBRID WHEAT.
 # - LODGING RATINGS RANGE FROM 0.2 (COMPLETELY ERECT) TO 9.0 (WHOLE PLOT COMPLETELY FLAT)

TABLE 5. WHEAT PERFORMANCE TEST RESULTS--SPICKARD.

BRAND	NAME	1985 YIELD BU/A	2 YR AVG BU/A	3 YR AVG BU/A	HT IN	LODG ING #	SURV IVAL %	TEST WT LB/BU	SEED WT MG	POWDERY MILDEW %
SOFT RED WINTER WHEATS										
GARST	EW 3010	78*	--	--	36	0.2	83	57.4	27.5	15
MERSCHMAN	GENIE II	75*	61	59	39	0.5	55	57.7	28.9	8
	AUBURN	74*	69	--	38	0.5	83	55.2	25.7	5
	BECKER	74*	--	--	35	0.2	80	57.2	29.6	93
	MO 9965	73*	--	--	36	0.2	70	59.3	31.0	43
	MO 10503	73*	--	--	35	0.2	75	59.8	33.9	38
PIONEER	2550	72*	66	64	38	0.2	75	59.5	30.9	28
	SALUDA	70*	--	--	35	0.7	80	60.3	29.9	10
	ADENA	69*	56	53	37	1.8	68	57.5	25.2	28
	CALDWELL	69*	66	63	38	0.5	58	60.3	27.6	30
MCB SEEDS	RIVAL	69*	--	--	39	3.7	80	55.4	28.3	10
	TYLER	69*	--	--	41	5.6	88	58.9	28.6	43
PIONEER	2553	68*	66	64	35	0.7	70	60.4	33.6	55
	ADDER	66*	--	--	36	1.0	83	57.0	28.7	15
MERSCHMAN	JULIE	66*	--	--	40	1.8	63	55.5	25.9	18
	COMPTON	66*	58	--	38	0.2	70	60.3	33.3	35
HILL	GENTRY	66*	64	--	39	0.2	80	59.4	30.2	10
HYBEX	HW 3015 (H)	66*	--	--	41	2.1	80	55.8	31.9	20
	HART	66*	59	57	40	1.3	78	56.8	33.4	48
MERSCHMAN	KATIE II	65*	57	56	40	0.8	83	60.3	26.1	15
	SCOTTY	64*	57	55	37	0.2	80	60.3	32.0	10
MCB SEEDS	RANGER	63	--	--	35	0.2	73	59.3	33.7	5
MCNAIR	1003	63	67	63	38	3.4	83	55.4	34.3	15
HYBEX	HW 3021 (H)	63	--	--	39	1.3	78	58.7	34.4	8
MERSCHMAN	BINTEE III	63	56	55	41	2.7	83	58.1	27.9	20
	FLORIDA 302	61	--	--	35	0.5	60	56.9	31.9	8
	ROSEN	61	59	58	35	0.5	75	59.2	35.3	20
	NELSON	60	58	54	38	0.7	78	60.4	31.8	18
	PIKE	60	59	59	39	1.4	75	58.8	31.7	40
COKER	833	58	--	--	39	1.5	83	53.6	28.5	18
	FILLMORE	56	61	57	35	0.2	65	60.8	28.3	8
RAY CARROLL	BRANDY	55	--	--	40	2.6	75	55.6	28.4	13
	ARTHUR 71	53	50	47	37	0.2	78	57.4	35.2	8
	FLORIDA 301	50	--	--	40	0.2	58	58.1	36.7	5
COKER	916	49	51	--	33	1.9	70	59.5	35.1	13
REED	1004	49	--	--	41	3.8	90	60.2	30.8	13
	DOUBLECROP	44	46	45	40	0.5	80	60.4	36.3	38

(CONTINUED)

TABLE 5. WHEAT PERFORMANCE TEST RESULTS--SPICKARD (CONTINUED).

BRAND	NAME	1985 YIELD BU/A	2 YR AVG BU/A	3 YR AVG BU/A	HT IN	LODG ING #	SURV IVAL %	TEST WT LB/BU	SEED WT MG	POWDERY MILDEW %
HARD RED WINTER WHEATS										
BOUNTY	301 (H)	80**	65	63	41	0.7	80	58.5	28.6	10
BOUNTY	205 (H)	77*	--	--	40	1.2	83	60.0	29.1	53
AGRIPRO	STALLION	77*	--	--	36	0.2	88	60.8	30.3	60
SEED RES.	AGC 5693	75*	63	--	39	0.2	85	60.1	33.7	23
	ARKAN	75*	61	53	38	0.2	78	60.0	32.4	63
BOUNTY	310 (H)	74*	65	--	38	0.9	78	59.4	31.1	58
SEED RES.	AGC 5667	71*	--	--	39	0.5	90	60.5	31.4	63
QUANTUM	XH 217A (H)	71*	68	--	42	1.0	78	56.7	30.6	80
AGRIPRO	VICTORY	68*	--	--	36	0.5	80	57.0	27.4	8
	TAM 107	68*	--	--	38	0.7	75	59.0	32.3	13
	TAM 105	68*	60	--	37	0.7	73	58.3	28.2	63
BOUNTY	202 (H)	68*	58	--	36	0.2	73	58.7	37.1	25
	VONA	68*	55	54	37	0.2	75	57.4	26.3	15
AGRIPRO	WINGS	66*	--	--	38	0.5	73	61.2	28.9	53
BOUNTY	203 (H)	65*	64	--	40	4.8	93	57.4	31.5	40
	CENTURA	65*	50	52	41	1.7	75	59.8	27.6	23
PIONEER	2165	65*	--	--	36	0.2	90	58.5	30.8	50
	CENTURK 78	63	48	46	39	1.3	80	56.9	31.0	10
HILL	JESSE	61	51	--	38	3.3	88	57.3	30.3	48
AGRIPRO	THUNDERBIRD	60	--	--	39	2.5	88	58.8	28.9	43
	NEWTON	60	51	51	36	2.2	75	58.1	29.5	52
SEED RES.	AGC 5630	54	--	--	36	0.7	55	59.9	33.0	15
MERSCHMAN	MEGGIE	53	50	--	39	3.3	75	58.9	20.0	53
	LSD .05	16			4	2.9	22	3.7	4.7	42
	C.V. %	12.5			5.3	117	14.4	3.1	7.7	71

** - HIGHEST YIELDING VARIETY IN THE TEST.

* - INDICATES THOSE VARIETIES WHICH DO NOT DIFFER SIGNIFICANTLY IN YIELD FROM THE HIGHEST

(H) - INDICATES A HYBRID WHEAT.

- LODGING RATINGS RANGE FROM 0.2 (COMPLETELY ERECT) TO 9.0 (WHOLE PLOT COMPLETELY FLAT)

TABLE 6. WHEAT PERFORMANCE TEST RESULTS--NOVELTY.

BRAND	NAME	1985 YIELD BU/A	2 YR AVG BU/A	3 YR AVG BU/A	HT IN	SURV IVAL %	TEST WT LB/BU	SEED WT MG
SOFT RED WINTER WHEATS								
MERSCHMAN	BECKER	73**	--	--	35	85	57.4	33.3
	GENIE II	70*	56	54	43	86	59.1	33.8
	TYLER	70*	--	--	42	85	59.5	33.2
MERSCHMAN	JULIE	69*	--	--	42	81	59.5	33.6
GARST	EW 3010	69*	--	--	36	71	59.6	30.8
RAY CARROLL	BRANDY	67*	--	--	43	81	59.1	32.0
HYBEX	HW 3021 (H)	67*	--	--	42	85	58.7	35.4
PIONEER	2553	66*	61	64	34	71	60.1	36.6
PIONEER	2550	66*	63	67	35	76	58.9	33.7
	FLORIDA 302	66*	--	--	36	43	57.2	35.1
	MO 10503	65*	--	--	34	78	58.6	35.2
MCNAIR	1003	65*	65	69	38	78	56.9	38.9
MERSCHMAN	BINTEE III	65*	56	59	41	79	59.2	33.0
MCB SEEDS	RIVAL	65*	--	--	41	84	58.6	33.6
HARTZLER	2200	64*	62	--	39	81	60.2	34.1
HYBEX	HW 3015 (H)	63	--	--	41	68	58.0	39.1
HARTZLER	2400	62	--	--	38	79	57.8	38.1
SCHULTZ	JMS 222	61	55	60	40	80	59.4	37.9
BAILEY	4287	61	--	--	39	70	58.7	33.5
	SALUDA	61	--	--	34	74	59.9	28.4
	COMPTON	60	53	--	37	76	60.4	34.7
	MO 9965	60	--	--	33	71	59.2	33.7
HILL	GENTRY	60	54	--	40	85	59.4	30.8
	CALDWELL	60	60	65	37	64	57.8	28.8
	PIKE	59	59	64	38	80	60.5	33.9
	ADENA	59	50	57	35	75	59.1	27.1
HARTZLER	2300	58	--	--	35	81	59.1	37.7
COKER	833	58	--	--	40	69	58.2	30.7
	ROSEN	58	56	60	35	81	59.0	37.2
BAILEY	4278R	58	--	--	47	80	57.2	34.7
MERSCHMAN	KATIE II	56	50	54	36	78	59.3	33.4
	HART	56	56	60	37	69	58.9	33.2
	AUBURN	55	55	--	37	65	60.3	29.6
	SCOTTY	54	53	57	36	73	58.8	33.5
	NELSON	53	55	58	39	73	59.8	34.0
	FILLMORE	51	53	59	38	60	57.9	29.2
	ADDER	51	--	--	33	55	55.7	29.6
REED	1004	50	--	--	40	80	63.3	39.1
	ARTHUR 71	49	47	50	39	76	60.5	35.1
COKER	916	44	--	--	32	54	57.5	33.2
	FLORIDA 301	38	--	--	36	23	54.7	33.4
	DOUBLECROP	30	37	43	37	84	58.1	33.4

(CONTINUED)

TABLE 6. WHEAT PERFORMANCE TEST RESULTS--NOVELTY (CONTINUED).

BRAND	NAME	1985 YIELD BU/A	2 YR AVG BU/A	3 YR AVG BU/A	HT IN	SURV IVAL %	TEST WT LB/BU	SEED WT MG
HARD RED WINTER WHEATS								
QUANTUM	XH 217A (H)	62	62	--	44	70	57.3	33.8
	TAM 107	60	--	--	34	78	59.3	39.8
PIONEER	2165	60	--	--	34	71	59.9	36.6
	ARKAN	59	52	47	34	64	57.6	35.5
	CENTURA	58	48	53	40	68	60.3	32.3
	CENTURK 78	57	50	54	37	74	59.4	35.0
HILL	JESSE	55	44	--	36	55	58.9	35.2
	TAM 105	54	51	--	36	65	59.7	32.8
	NEWTON	50	46	50	35	71	60.4	35.0
MERSCHMAN	MEGGIE	49	48	--	36	64	59.8	27.9
	VONA	44	41	46	33	51	55.7	31.4
	LSD .05	9.4			1.7	13	2.8	3.6
	C.V. %	11.5			3.2	13	3.4	7.6

** - HIGHEST YIELDING VARIETY IN THE TEST.

* - INDICATES THOSE VARIETIES WHICH DO NOT DIFFER SIGNIFICANTLY
IN YIELD FROM THE HIGHEST.

(H) - INDICATES A HYBRID WHEAT.

TABLE 7. WHEAT PERFORMANCE TEST RESULTS--LAMAR.

BRAND	NAME	1985	2 YR	3 YR	HT	SURV	TEST	SEED	SEPTORIA
		YIELD BU/A	AVG BU/A	AVG BU/A	IN	IVAL %	WT LB/BU	WT MG	LEAF BLOTCH %
SOFT RED WINTER WHEATS									
HYBEX	HW 3015 (H)	56*	--	--	40	73	55.1	31.0	5
PIONEER	2553	51	65	54	37	76	54.0	26.8	10
	MO 9965	51	62	--	35	76	56.3	27.0	9
HARTZLER	2300	50	--	--	35	79	55.4	31.0	8
	ROSEN	50	63	54	36	81	56.4	29.4	14
	CALDWELL	49	65	49	35	76	55.8	23.8	5
HYBEX	HW 3021 (H)	49	--	--	40	80	53.7	28.4	5
MCNAIR	1003	49	68	54	37	76	51.9	29.0	11
	FLORIDA 301	49	--	--	40	69	57.6	34.2	3
	MO 10503	49	--	--	35	76	55.3	27.6	9
	FILLMORE	49	60	53	40	71	57.4	23.2	6
	ADDER	49	--	--	34	80	54.4	24.8	8
	FLORIDA 302	48	--	--	38	66	52.2	28.7	10
MERSCHMAN	JULIE	47	--	--	40	83	53.1	23.9	19
	BECKER	47	--	--	34	80	52.0	24.8	9
	ADENA	46	--	--	35	76	55.5	23.3	19
	AUBURN	46	--	--	38	69	56.7	23.8	5
	HART	46	53	46	40	80	55.6	29.0	30
MERSCHMAN	GENIE II	46	58	--	40	85	54.9	24.1	18
HARTZLER	2400	46	--	--	38	68	51.4	29.0	9
GARST	EW 3010	46	--	--	38	75	54.2	26.2	24
PIONEER	2550	45	59	49	35	76	53.0	25.0	20
	SALUDA	45	--	--	34	69	55.8	25.3	10
	TYLER	45	--	--	40	84	51.7	23.8	13
	NELSON	44	54	--	37	75	58.0	27.7	41
	COMPTON	44	--	--	34	81	57.5	28.0	31
MERSCHMAN	KATIE II	44	48	--	38	79	54.5	24.1	30
	DOUBLECROP	41	51	45	37	78	57.5	31.4	45
	SCOTTY	41	49	43	35	60	55.2	25.0	43
HILL	GENTRY	41	--	--	37	68	57.1	26.9	15
MERSCHMAN	BINTEE III	40	47	--	40	75	51.6	22.8	13
	ARTHUR 71	38	48	42	38	78	57.4	27.9	26
HARTZLER	2200	35	--	--	37	79	53.5	24.8	18
	PIKE	34	54	47	36	61	51.7	21.9	13
MCB SEEDS	RIVAL	32	--	--	36	56	51.7	21.7	16

(CONTINUED)

TABLE 7. WHEAT PERFORMANCE TEST RESULTS--LAMAR (CONTINUED).

BRAND	NAME	1985 YIELD BU/A	2 YR AVG BU/A	3 YR AVG BU/A	HT IN	SURV IVAL %	TEST WT LB/BU	SEED WT MG	SEPTORIA LEAF BLOTCH %
HARD RED WINTER WHEATS									
BOUNTY	205 (H)	59**	--	--	41	84	58.3	29.4	4
BOUNTY	203 (H)	58*	--	--	40	81	58.7	30.2	8
BOUNTY	301 (H)	54	--	--	41	86	58.9	27.9	5
BOUNTY	202 (H)	52	--	--	38	83	57.4	34.0	13
BOUNTY	310 (H)	50	60	--	39	80	56.5	26.2	9
SEED RES.	AGC 5667	48	--	--	34	86	58.3	32.2	55
PIONEER	2165	47	--	--	35	76	57.4	28.4	35
QUANTUM	576 (H)	46	--	--	38	80	55.9	23.5	28
	TAM 107	45	--	--	35	70	54.9	28.5	19
	ARKAN	44	50	--	35	75	57.5	28.4	20
AGRIPRO	MUSTANG	42	45	--	35	71	57.2	26.8	30
AGRIPRO	STALLION	40	--	--	32	78	57.6	24.9	33
	CENTURA	40	50	--	41	75	54.9	23.8	13
	NEWTON	38	45	39	38	71	55.6	24.6	21
SEED RES.	AGC 5630	36	--	--	32	48	56.3	26.3	44
SEED RES.	AGC 5693	36	--	--	36	80	54.5	26.9	45
	TAM 105	35	--	--	36	63	52.4	21.8	19
AGRIPRO	WRANGLER	35	44	--	34	73	56.7	27.0	43
	VONA	34	44	36	33	68	53.7	20.7	40
	CENTURK 78	31	43	39	40	65	54.7	25.1	15
HILL	JESSE	31	--	--	36	70	53.1	23.8	41
	LSD .05	4.7			1.5	10	1.8	2.4	11
	C.V. %	7.6			2.9	10	2.4	6.5	38

** - HIGHEST YIELDING VARIETY IN THE TEST.

* - INDICATES THOSE VARIETIES WHICH DO NOT DIFFER SIGNIFICANTLY
IN YIELD FROM THE HIGHEST.

(H) - INDICATES A HYBRID WHEAT.

TABLE 8. WHEAT PERFORMANCE TEST RESULTS--BERTRAND.

BRAND	NAME	1985 YIELD BU/A	2 YR AVG BU/A	3 YR AVG BU/A	HT IN	LODG ING #	TEST WT LB/BU	SEED WT MG	SEPTORIA	
									GLUME BLOTCH %	LEAF RUST %
SOFT RED WINTER WHEATS										
	FLORIDA 302	23**	--	--	33	3.2	48.2	27.3	2	1
	ADDER	22*	--	--	28	0.9	47.4	21.4	2	3
	COMPTON	20*	--	--	30	3.4	51.5	25.0	4	1
COKER	983	20*	--	--	29	3.5	51.3	21.6	2	1
AGRIPRO	HUNTER	19*	32	34	27	3.5	51.9	21.7	28	3
AGRIPRO	MAGNUM	19	--	--	27	3.2	51.6	21.9	13	2
	NELSON	19	30	--	30	1.9	49.6	22.8	21	0
	CALDWELL	18	23	27	31	5.1	48.7	18.7	3	1
	FLORIDA 301	18	--	--	33	2.9	49.8	27.0	5	1
	MO 9965	18	--	--	29	1.3	47.5	19.6	20	2
	SALUDA	18	--	--	29	3.4	48.8	21.1	3	4
HYBEX	HW 3022 (H)	17	--	--	32	2.4	51.3	24.9	3	1
	SCOTTY	16	25	29	30	4.4	48.1	21.5	5	1
MERSCHMAN	KATIE II	16	27	--	33	2.9	50.0	23.2	5	1
AGRIPRO	NA-SW78-111	16	--	--	32	3.1	48.7	20.4	6	1
GARST	EW 3010	15	--	--	31	2.6	46.9	19.3	4	3
HYBEX	HW 3015 (H)	15	--	--	35	3.6	48.7	23.3	5	1
BAILEY	4287	14	--	--	32	5.7	48.9	19.6	2	2
PIONEER	2553	14	29	29	29	1.4	47.6	22.6	1	4
AGRIPRO	BLAZER	13	--	--	32	4.2	49.3	19.5	4	7
HYBEX	HW 3021 (H)	13	--	--	34	4.5	45.9	21.7	5	10
MCHNAIR	1003	13	25	27	30	3.2	43.0	18.8	14	5
	MO 10503	13	--	--	29	8.5	45.8	20.5	4	5
MERSCHMAN	JULIE	13	--	--	35	3.5	48.5	20.7	4	9
PIONEER	2550	13	25	29	30	4.4	47.2	21.0	2	3
MERSCHMAN	BINTEE III	12	23	--	34	4.4	48.2	20.1	4	8
	TYLER	12	--	--	37	4.7	47.2	19.9	5	8
	DOUBLECROP	12	21	27	30	4.1	52.1	26.1	39	2
	ARTHUR 71	12	18	20	32	2.6	52.4	25.0	4	3
HILL	GENTRY	12	--	--	32	4.2	48.8	19.9	7	6
	PIKE	12	23	25	31	5.2	47.2	20.2	5	7
	ROSEN	11	27	31	28	5.2	44.7	18.5	20	3
	ADENA	10	--	--	29	4.7	45.9	15.7	6	3
MCB SEEDS	RIVAL	10	--	--	32	7.0	46.7	19.1	1	5
MERSCHMAN	GENIE II	10	24	--	36	4.6	47.3	19.6	5	11
AGRIPRO	SOUTHERN BELLE	10	23	22	24	1.4	45.1	18.2	51	1
	FILLMORE	9	25	28	33	2.6	46.9	15.6	1	3
BAILEY	4278R	9	--	--	38	6.7	47.3	19.7	2	13
	AUBURN	8	--	--	33	3.2	47.7	16.3	1	2
	BECKER	8	--	--	28	7.5	44.4	17.7	5	8
AGRIPRO	NA-SW74-144	7	--	--	31	8.0	43.8	18.4	11	11
	HART	7	20	24	30	9.0	46.0	19.5	4	16

(CONTINUED)

TABLE 8. WHEAT PERFORMANCE TEST RESULTS--BERTRAND (CONTINUED).

BRAND	NAME	1985	2 YR	3 YR	HT	LODG	TEST	SEED	SEPTORIA	LEAF
		YIELD BU/A	AVG BU/A	AVG BU/A	IN	ING #	WT LB/BU	WT MG	GLUME BLOTCH %	RUST %
HARD RED WINTER WHEATS										
PIONEER	TAM 107	14	--	--	29	2.1	44.3	19.3	18	7
	2165	14	--	--	28	0.2	47.3	20.6	9	2
	CENTURK 78	14	18	21	35	4.5	50.0	22.4	4	1
	CENTURA	13	34	--	35	7.0	49.4	20.4	2	1
HILL	JESSE	12	--	--	30	6.8	46.3	19.4	7	5
	TAM 105	12	--	--	31	3.1	46.9	20.0	1	3
	ARKAN	12	16	--	30	3.1	48.2	20.7	39	2
	NEWTON	9	12	16	31	4.5	47.2	18.4	4	14
	VONA	8	16	20	27	6.7	44.6	15.8	8	1
	LSD .05	4.0			2.0	1.8	1.9	2.7	7	4
	C.V. %	21.1			4.6	30.4	2.9	6.0	59	65

- ** - HIGHEST YIELDING VARIETY IN THE TEST.
 * - INDICATES THOSE VARIETIES WHICH DO NOT DIFFER SIGNIFICANTLY IN YIELD FROM THE HIGHEST
 (H) - INDICATES A HYBRID WHEAT.
 # - LODGING RATINGS RANGE FROM 0.2 (COMPLETELY ERECT) TO 9.0 (WHOLE PLOT COMPLETELY FLAT)

TABLE 9. WHEAT PERFORMANCE TEST RESULTS--MT VERNON.

BRAND	NAME	1985 YIELD BU/A	2 YR AVG BU/A	3 YR AVG BU/A	HT IN	LOGG ING #	SURV IVAL %	TEST WT LB/BU	HEAD ING DATE	SEED WT MG	SEPTORIA LEAF BLOTCH %
SOFT RED WINTER WHEATS											
HYBEX	HW 3021 (H)	67**	--	--	42	1.5	91	56.0	5/01	32.8	15
MERSCHMAN	JULIE	66*	--	--	42	2.5	95	55.5	5/03	26.9	14
	MO 9965	65*	--	--	36	1.4	83	57.4	4/28	30.5	29
	CALDWELL	64*	60	58	40	1.7	85	57.0	5/05	27.5	21
	SALUDA	64*	--	--	35	1.9	85	57.4	5/03	29.2	23
HYBEX	HW 3015 (H)	63*	--	--	43	1.5	86	56.7	5/02	33.4	28
PIONEER	2550	62*	63	61	37	2.3	79	56.3	5/06	29.6	29
	BECKER	62*	--	--	35	0.5	86	54.8	5/04	29.6	38
MERSCHMAN	BINTEE III	62*	62	57	40	1.6	81	56.4	5/05	28.3	16
	ADDER	62*	--	--	35	1.5	81	57.1	5/04	26.8	31
MCNAIR	1003	61*	70	70	38	1.3	89	54.3	5/01	33.0	21
PIONEER	2553	61*	65	65	38	0.6	86	56.9	5/02	34.1	14
	TYLER	60	--	--	40	1.9	85	55.5	5/04	27.7	13
	ROSEN	59	60	61	35	2.1	85	56.4	4/29	32.6	24
COKER	833	59	--	--	38	2.3	96	56.6	5/04	29.9	16
	PIKE	58	60	60	38	1.6	84	57.1	5/02	28.7	38
	AUBURN	58	58	--	41	0.9	84	59.1	5/07	26.9	19
	MO 10503	58	--	--	37	2.0	84	57.0	4/30	29.9	43
	HART	57	57	54	40	2.5	80	56.6	5/01	31.8	39
MERSCHMAN	GENIE II	56	69	62	42	2.0	88	56.4	5/04	28.1	18
MCB SEEDS	RIVAL	56	--	--	38	1.7	75	57.9	5/04	29.6	39
REED	1004	56	60	--	40	3.2	84	58.4	5/02	35.5	31
	FILLMORE	55	59	59	42	0.3	83	59.4	5/07	27.3	21
	ARTHUR 71	55	49	50	39	3.3	85	59.7	5/01	30.9	38
	ADENA	55	52	--	36	1.9	90	57.4	5/03	26.1	29
GARST	EW 3010	54	--	--	38	1.5	81	58.3	5/04	29.7	39
	FLORIDA 302	54	66	--	39	1.0	66	56.8	5/05	33.9	33
COKER	916	52	--	--	35	3.0	85	56.5	4/28	28.0	54
MERSCHMAN	KATIE II	52	58	56	37	2.2	81	57.6	5/03	28.2	38
	COMPTON	52	56	--	36	4.0	90	57.7	5/04	28.8	44
HILL	NELSON	51	58	55	39	3.0	84	58.1	4/29	27.7	48
	GENTRY	50	52	--	41	3.2	79	58.4	5/04	26.8	50
	SCOTTY	49	55	52	37	1.6	81	56.9	5/02	26.8	73
	DOUBLECROP	47	44	46	36	4.5	79	58.4	4/27	30.2	79
	FLORIDA 301	38	55	--	37	2.1	58	57.1	4/29	32.2	24

(CONTINUED)

TABLE 9. WHEAT PERFORMANCE TEST RESULTS--MT VERNON (CONTINUED).

BRAND	NAME	1985	2 YR	3 YR	HT	LODG	SURV	TEST	HEAD	SEED	SEPTORIA
		YIELD BU/A	AVG BU/A	AVG BU/A	IN	ING #	IVAL %	WT LB/BU	ING DATE	WT MG	LEAF BLOTCH %
HARD RED WINTER WHEATS											
QUANTUM	XH 217A (H)	60*	--	--	46	2.4	88	57.2	5/05	29.4	38
AGRIPRO	STALLION	60	--	--	35	1.8	84	58.7	4/28	27.7	64
BOUNTY	203 (H)	60	63	--	42	2.5	88	58.6	5/07	31.0	25
BOUNTY	205 (H)	59	--	--	43	2.8	89	58.5	5/05	31.1	13
QUANTUM	576 (H)	56	--	--	38	2.0	91	57.2	4/29	27.2	58
	TAM 107	55	--	--	36	2.1	85	56.5	4/28	31.3	53
BOUNTY	301 (H)	51	58	--	42	4.4	86	58.5	5/08	30.8	34
SEED RES.	AGC 5667	51	--	--	36	2.5	83	58.0	4/30	32.5	63
	ARKAN	50	55	54	37	3.8	79	56.7	4/29	27.6	45
AGRIPRO	MUSTANG	50	60	--	36	2.3	83	58.5	5/02	31.3	60
	TAM 105	50	51	--	39	0.9	74	57.6	5/07	28.4	58
BOUNTY	310 (H)	49	59	58	42	0.7	88	57.8	5/07	29.2	29
PIONEER	2165	49	--	--	35	2.7	83	57.5	5/02	28.5	70
SEED RES.	AGC 5693	48	--	--	39	2.7	76	58.4	5/04	30.6	61
	NEWTON	48	50	49	38	2.0	81	58.4	5/03	29.8	65
	VONA	47	54	53	35	4.2	78	56.4	5/03	22.5	69
AGRIPRO	WRANGLER	47	51	--	35	4.5	85	57.3	4/28	29.0	73
HILL	JESSE	46	54	--	38	3.0	90	56.8	5/03	28.1	78
	CENTURA	44	49	51	44	5.9	83	58.6	5/06	27.6	45
	CENTURK 78	43	46	46	40	5.1	74	58.3	5/07	29.4	28
SEED RES.	AGC 5630	40	--	--	32	3.2	66	56.7	4/29	26.3	70
	LSD .05	7.4			2.1	1.8	11	0.9	2.1	1.7	15
	C.V. %	9.7			4.0	54	10	1.1	1.2	4.1	27

** - HIGHEST YIELDING VARIETY IN THE TEST.

* - INDICATES THOSE VARIETIES WHICH DO NOT DIFFER SIGNIFICANTLY IN YIELD FROM THE HIGHEST (H) .. INDICATES A HYBRID WHEAT.

- LODGING RATINGS RANGE FROM 0.2 (COMPLETELY ERECT) TO 9.0 (WHOLE PLOT COMPLETELY FLAT)

TABLE 10. WHEAT PERFORMANCE TEST RESULTS--PORTAGEVILLE.

BRAND	NAME	1985 YIELD BU/A	2 YR AVG BU/A	3 YR AVG BU/A	HT IN	LODG ING #	SURV IVAL %	TEST WT LB/BU	HEAD ING DATE	SEED WT MG	SEPTORIA	
											GLUME BLOTCH %	LEAF RUST %
SOFT RED WINTER WHEATS												
	FLORIDA 302	37**	--	--	33	2.5	79	52.3	5/04	28.6	1	0
	FLORIDA 301	37*	--	--	35	3.5	76	52.2	4/30	25.6	3	0
	ADDER	36*	--	--	32	4.4	84	48.8	5/06	21.2	2	0
	COMPTON	32	--	--	31	5.3	78	52.0	5/04	24.3	2	0
	NELSON	32	45	--	33	3.6	85	52.7	4/29	23.0	5	1
HYBREX	HW 3022 (H)	32	--	--	33	4.1	78	51.2	5/06	22.0	2	5
	AUBURN	32	--	--	35	0.8	79	51.4	5/08	18.8	0	0
MERSCHMAN	KATIE II	32	41	--	32	4.7	81	51.2	5/03	21.4	4	1
AGRIPRO	NA-SW78-111	31	--	--	33	4.6	85	46.4	4/29	18.7	4	0
HYBREX	HW 3015 (H)	30	--	--	36	4.4	80	49.0	5/02	24.1	2	6
	CALDWELL	29	41	43	32	5.4	76	51.8	5/07	17.6	0	1
	SALUDA	29	--	--	29	4.4	76	50.7	5/07	19.1	0	0
	MO 10503	29	--	--	31	6.5	80	49.8	5/03	22.8	2	3
	SCOTTY	28	39	44	30	3.9	80	52.2	5/06	21.7	1	0
COKER	833	28	--	--	34	3.2	81	50.7	5/08	20.4	6	0
	DOUBLECROP	28	37	41	31	4.4	84	53.3	4/28	24.1	4	4
	FILLMORE	28	38	40	33	1.1	78	50.9	5/10	18.8	1	0
	MO 9965	27	--	--	29	3.3	79	49.8	5/02	19.7	28	4
	ARTHUR 71	27	37	39	33	5.2	84	52.4	5/05	22.7	1	5
COKER	983	26	--	--	28	3.8	75	52.7	5/02	18.8	1	1
AGRIPRO	SOUTHERN BELLE	26	--	--	26	5.6	78	47.4	4/28	18.7	6	4
PIONEER	2550	26	42	45	33	5.7	80	48.2	5/08	21.1	0	1
PIONEER	2553	26	39	40	32	3.4	83	48.7	5/07	22.9	0	3
HILL	GENTRY	26	--	--	34	5.6	74	52.3	5/07	19.8	0	6
AGRIPRO	HUNTER	26	--	--	25	5.3	78	50.7	4/27	18.6	18	1
MCNAIR	1003	25	44	46	31	3.3	80	41.9	5/01	19.8	7	13
AGRIPRO	MAGNUM	25	--	--	28	5.0	83	47.6	4/29	17.9	6	4
COKER	916	25	--	--	25	5.4	75	45.0	4/28	18.5	23	0
AGRIPRO	BLAZER	25	--	--	31	1.8	80	54.1	5/03	22.3	1	9
HYBREX	HW 3021 (H)	22	--	--	33	6.6	81	41.4	5/03	20.4	5	16
GARST	EW 3010	22	--	--	30	3.9	83	48.3	5/07	18.3	6	2
	BECKER	22	--	--	29	6.7	81	46.6	5/08	19.4	1	4
MERSCHMAN	BINTEE III	20	35	--	35	7.0	78	47.7	5/07	17.9	7	12
MCB SEEDS	RIVAL	19	--	--	32	6.7	70	47.9	5/07	18.5	0	5
	ADENA	19	--	--	30	7.7	81	43.9	5/06	13.6	5	4
	PIKE	18	36	40	30	5.8	78	47.3	5/07	18.8	0	6
	ROSEN	17	40	44	29	8.0	80	40.4	4/29	13.9	9	14
MERSCHMAN	GENIE II	17	35	--	35	8.2	81	45.5	5/08	18.2	11	18
	HART	16	32	37	33	8.5	80	46.9	5/05	18.5	0	18
MERSCHMAN	JULIE	15	--	--	33	7.0	75	46.3	5/07	19.0	11	16
	TYLER	15	--	--	34	7.5	76	46.0	5/07	18.8	8	18
AGRIPRO	NA-SW74-144	13	--	--	29	8.5	80	41.7	4/30	16.1	15	25

(CONTINUED)

TABLE 10. WHEAT PERFORMANCE TEST RESULTS--PORTAGEVILLE (CONTINUED).

BRAND	NAME	1985 YIELD BU/A	2 YR AVG BU/A	3 YR AVG BU/A	HT IN	LODG ING #	SURV IVAL %	TEST WT LB/BU	HEAD ING DATE	SEED WT MG	SEPTORIA	
											GLUME BLOTCH %	LEAF RUST %
HARD RED WINTER WHEATS												
PIONEER	CENTURA	33*	--	--	38	6.3	81	54.3	5/07	22.2	0	0
	TAM 107	33*	--	--	30	4.9	83	47.1	4/28	20.9	9	7
	2165	31	--	--	30	3.3	83	51.3	5/03	21.8	4	0
	ARKAN	27	33	--	30	2.7	79	52.0	4/29	22.3	46	1
	VONA	26	35	37	29	7.4	78	49.4	5/01	17.6	1	2
HILL SEED RES.	CENTURK 78	25	30	32	39	5.5	75	54.5	5/11	26.1	6	1
	NEWTON	24	31	33	34	4.6	80	52.1	5/06	22.6	6	8
	JESSE	20	--	--	30	7.2	74	47.4	5/03	18.2	2	6
	AGC 5667	20	--	--	28	7.1	81	45.9	4/29	18.5	3	5
	TAM 105	17	--	--	32	5.0	78	49.9	5/08	20.2	1	6
SEED RES.	AGC 5630	17	--	--	27	5.0	64	44.7	4/29	17.7	9	3
SEED RES.	AGC 5693	12	--	--	29	7.5	78	39.0	5/05	12.0	4	11
	LSD .05	5.1			2.3	2.2	7	2.8	2.7	2.6	3.6	3.8
	C.V. %	14.4			5.2	31	6	4.1	1.5	9.1	48	54

** - HIGHEST YIELDING VARIETY IN THE TEST.

* - INDICATES THOSE VARIETIES WHICH DO NOT DIFFER SIGNIFICANTLY IN YIELD FROM THE HIGHEST

(H) - INDICATES A HYBRID WHEAT.

- LODGING RATINGS RANGE FROM 0.2 (COMPLETELY ERECT) TO 9.0 (WHOLE PLOT COMPLETELY FLAT)

TABLE 11. COMPUTED AVERAGES OVER ALL LOCATIONS OF THE MISSOURI WHEAT PERFORMANCE TEST.

BRAND	NAME	1985 YIELD BU/A	HT IN	LODG ING #	SURV IVAL %	TEST WT LB/BU	HEAD ING DATE	SEED WT MG
SOFT RED WINTER WHEATS								
HYBEX	HW 3015 (H)	53**	40	3.1	78	54.3	5/03	31.4
	FLORIDA 302	52*	36	1.9	65	54.4	5/05	31.7
	MO 9965	52*	34	1.6	78	55.3	5/01	27.3
	MO 10503	52*	34	4.4	81	55.0	5/02	29.1
	SALUDA	51*	33	3.0	78	56.0	5/05	26.0
HYBEX	BECKER	51*	33	3.2	84	52.1	5/07	26.3
	HW 3021 (H)	51*	39	3.4	83	52.8	5/03	29.7
	CALDWELL	51*	36	3.4	73	55.7	5/06	24.3
MCNAIR	1003	50*	36	2.9	82	51.2	5/02	30.0
PIONEER	2550	50*	35	3.8	81	54.4	5/07	27.4
GARST	EW 3010	50*	35	2.5	81	54.7	5/06	25.5
	PIONEER 2553	50*	35	1.6	79	55.1	5/05	30.4
MERSCHMAN	JULIE	50*	40	3.8	81	53.4	5/06	25.7
	ADDER	50*	34	2.1	78	53.8	5/06	25.7
MERSCHMAN	GENIE II	49*	40	3.7	80	53.7	5/06	26.2
	TYLER	49*	40	4.7	85	53.6	5/06	25.8
	COMPTON	48*	35	3.6	82	56.9	5/05	29.5
	AUBURN	48*	37	1.2	77	55.6	5/09	24.0
	KATIE II	47*	36	3.1	81	55.8	5/04	26.8
MERSCHMAN	NELSON	47*	37	2.9	81	56.7	4/30	28.2
	BINTEE III	47*	39	3.8	80	53.8	5/06	25.6
MERSCHMAN	ROSEN	47*	34	3.9	83	53.2	5/01	28.5
	ADENA	46	34	3.9	80	53.7	5/05	22.5
	RIVAL	46	37	4.6	76	53.2	5/06	26.0
MCB SEEDS HILL	GENTRY	46	38	3.7	80	56.5	5/06	26.4
	SCOTTY	46	35	2.9	77	55.6	5/05	27.2
	PIKE	45	36	3.6	78	54.5	5/05	26.7
	HART	45	37	5.3	80	54.0	5/04	28.3
	FILLMORE	44	37	1.0	73	55.9	5/10	24.1
	ARTHUR 71	41	37	3.6	81	56.9	5/03	29.8
	FLORIDA 301	41	37	2.7	54	55.2	4/30	31.9
	DOUBLECROP	38	36	3.5	82	56.7	4/28	30.4
HARD RED WINTER WHEATS								
PIONEER	TAM 107	49*	34	2.9	79	54.0	4/30	29.4
	ARKAN	47*	35	3.1	77	55.6	5/01	28.1
	2165	47*	34	1.8	80	55.6	5/03	28.1
	CENTURA	44	40	5.5	77	56.4	5/08	26.1
	TAM 105	41	36	3.0	72	54.4	5/08	25.8
HILL	JESSE	40	36	5.1	77	53.9	5/04	26.7
	NEWTON	40	36	3.3	77	55.6	5/06	27.2
	CENTURK 78	40	39	4.6	75	55.8	5/09	28.4
	VONA	40	33	4.6	69	53.4	5/03	22.9
LSD .05		6.1	1.3	1.6	7.8	1.7	2.0	1.9
C.V. %		12.5	3.5	39.3	8.8	2.9	1.0	6.7

** - HIGHEST YIELDING VARIETY IN THE TEST.

* - INDICATES THOSE VARIETIES WHICH DO NOT DIFFER SIGNIFICANTLY IN YIELD FROM THE HIGHEST (H) - INDICATES A HYBRID WHEAT.

- LODGING RATINGS RANGE FROM 0.2 (COMPLETELY ERECT) TO 9.0 (WHOLE PLOT COMPLETELY FLAT)