1988 Missouri Winter Wheat Performance Test

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Test Objective

The objective of the Missouri wheat performance testing program is to help Missouri growers select 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 public and private wheat varieties and hybrids for the state of Missouri.

1988 Wheat Crop Conditions

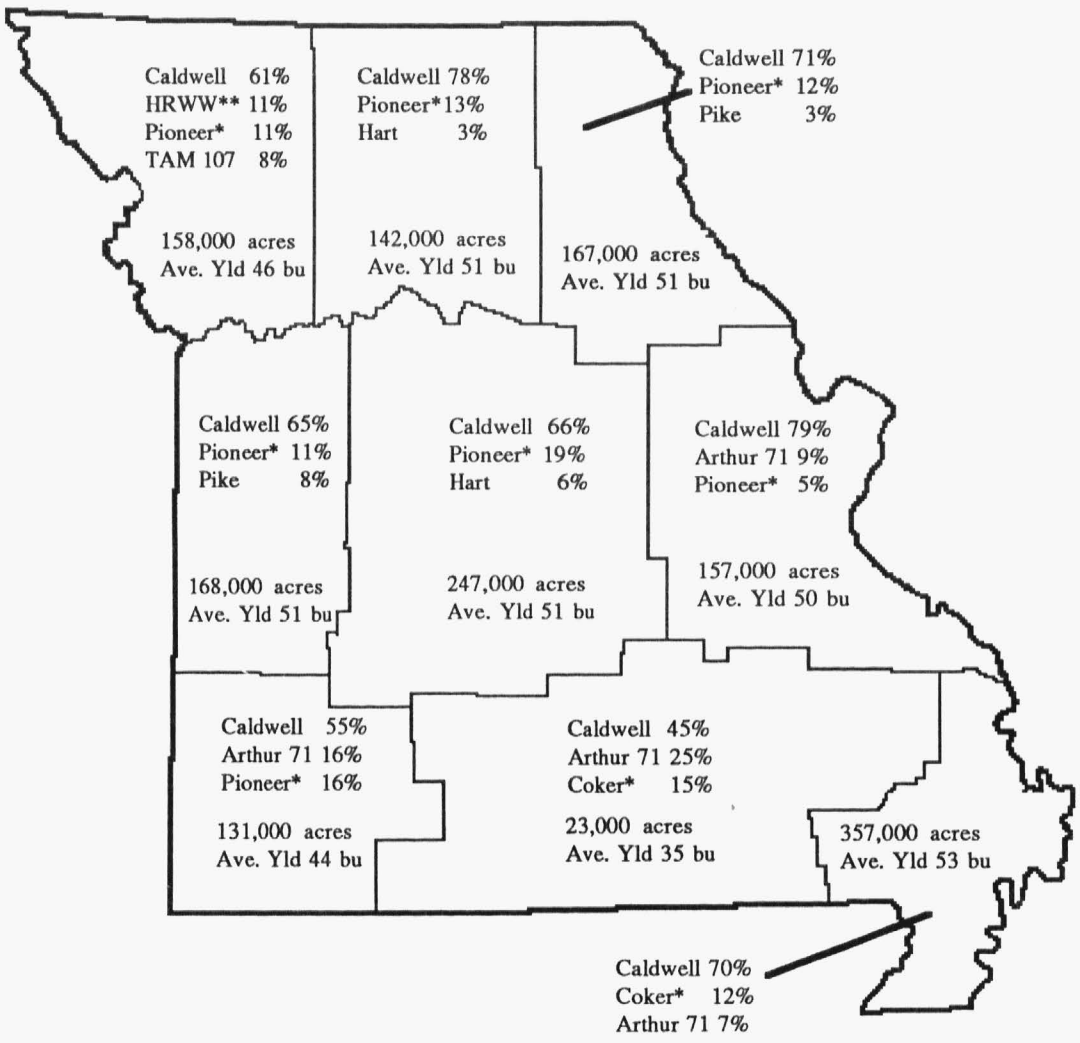
Harvested acreage for wheat in 1988 totaled 1,550,000 acres, the largest in several years. The statewide average yield (as of July 1 estimates) reached 50 bushel per acre, the first time in history that the 50 bushel level had been achieved. The previous record yield was 46 bushel per acre in 1987. Figure 1 shows the distribution of wheat acreage and average yields by Crop Reporting District. Data on the varietal distribution within the state are shown in Figure 1. Caldwell was again the most widely grown variety in Missouri increasing to 68% of the state's wheat acreage from 62% the previous year. Other popular varieties are listed within their respective Crop Reporting Districts. Hard red winter wheat was seeded on only about 2% of the acreage in Missouri.

The 1987-1988 Missouri winter wheat crop was considerably larger than the past several years largely due to ideal planting conditions in the fall of 1987. Summer planted crops matured early and favorable weather conditions allowed early harvesting of those crops and subsequent planting of winter wheat. Emergence and tillering of wheat were nearly ideal for all except the latest planted wheat. Although there was little snow cover in the winter, generally mild conditions resulted in good winter survival for most of the state.

Unlike the past two years, wheat broke dormancy at a more nearly normal time and approximately one to two weeks later than the previous two years. Moisture conditions during the early spring were adequate across the state, but rainfall fell behind a normal schedule beginning in April. Although most of the state experienced low rainfall and high temperatures during heading and grain filling periods, most farmers had higher than expected yields verifying wheat's status as a "dry weather crop." The northern part of the state suffered most from moisture shortages resulting in lower yields than other regions.

Because of the low moisture and high temperature conditions during grain filling, foliar disease symptoms were seldom found throughout the state. Early in the spring, symptoms of Wheat Spindle Streak Virus were evident, but those varieties which showed the worst symptoms recovered remarkably showing no obvious yield reductions in many cases.

Figure 1. 1988 Wheat Variety Distribution, Acreage, and Average Yields by Crop Reporting District.



*** - All Varieties**
**** - All other Hard Red Winter Wheat Varieties**

There were widespread symptoms of Barley Yellow Dwarf Virus (BYDV)throughout Missouri, especially where wheat was planted very early. Fall infections of BYDV often result in severe stunting as was observed at Columbia in 1988. Spring infections often reveal colorful (red and purple) leaf symptoms with little dwarfing and nearly indiscernible yield reductions. It was not unusual to observe Powdery Mildew on the thickest stands early in the spring, but as temperatures increased, that disease became of little consequence.

Variety Testing Procedures

The **experimental design** for the soft wheat performance tests was a randomized complete block with four replications. A lattice design with four replications was used for the hard wheat tests. The soft wheat tests were planted in a timely fashion at seven locations (Table 1). Nitrogen fertilizer was applied as urea and all spring applications were made at Feekes' growth stage 3 - after the wheat began to green up.The site at Novelty suffered severe heaving damage and, although survival notes were taken and are reported in this publication, those plots were abandoned thereafter. The hard wheat tests were planted at three locations - also listed in Table 1. The test plots consisted of six rows of 7 inch spacing, 15 feet long and were trimmed to 12 feet prior to harvest.

Seed of all private varieties was supplied by the participating company. Public varieties were obtained from the Foundation Seed programs of the state in which they originated where possible or from a cooperating state where necessary. If not treated upon arrival, all seed was treated with Vitavax seed treatment prior to packaging. Seed weights were obtained for each variety and a package was prepared for each plot containing 1,850 seeds - a seeding rate of approximately 1.5 million seeds/acre.

Survival notes were taken on each plot after the plants broke dormancy and began to green up in the spring.

Heading dates were recorded at Spickard, Columbia, Mt. Vernon and Portageville. A variety was considered headed when 75 % of the heads were extended above the flag leaf collar. Heading date is reported as days after January 1 - often called Julian date.

Plant height was obtained by measuring the distance from the soil to the top of the head.

Disease ratings were taken where incidence was severe enough to warrant. With the hot, dry conditions of 1988, foliar diseases were not evident at many locations. Where possible, these diseases were rated according to the Manual of Assessment Keys for Plant Diseases by **Clive James.** Exceptions included leaf rust which has been rated using the guide published by CIMMYT. Dryland footrot was diagnosed in the tests at Mt. Vernon by the UMC Plant Pathology Diagnostic Laboratory and those plots were rated according to the percentage of heads within a plot which were so severely affected that they had apparently died prematurely. Barley Yellow Dwarf Virus (BYDV) were made according to a scale as described in the prepared tables. The Columbia location was planted early and was probably subjected to a fall infection of BYDV which resulted in severe dwarfing of some varieties. Spring infections at other locations resulted in obvious leaf reddening and purpling with little dwarfing.

Lodging was observed at only one location - Bertrand - in 1988. The **Belgian lodging scale** was used wherein each plot receives a rating for the area lodged: 1 = none of the plot lodged and 9 = the whole plot lodged; and a second rating for the severity of lodging: 1 = plants erect and 5 = plants completely flat. The final rating is obtained by multiplying the area x the severity x 0.2. As a result, a plot with no lodging would receive a rating of 0.2 and one in which all plants were completely flat would be rated 9.0.

Table 1. Selected cultural practices at each out-state testing location.

Location and Cooperator	Class Tested	Planting Date	Harvest Date	N Fertilizer Timing	(lb/a)
North Missouri Research Center					
Spickard					
Jack Cooley	Hard	Sep. 25	July 5	F	40
Carl Watson	and			S	80
	Soft				
Agronomy Research Center					
Columbia					
John Poehlmann	Hard	Sep. 24	June 24	F	40
	and			S	80
	Soft		June 21-22		
Southwest Research Center					
Mt. Vernon					
Calvin Hoenshell	Hard	Oct. 8	June 20	F	40
	and			S	80
	Soft				
Greenley Memorial Research Center					
Novelty					
Randall Smoot	Soft	Sep. 23	Winter-killed	F	40
Maryann Redelfs				S	80
Lamar	Soft	Oct. 8	June 23	F	70
David Sheat				S	30
Rick Mammen					
Bertrand	Soft	Oct. 13	June 20	F	40
Junior Peters				S	100
John Garrett					
Delta Center					
Portageville					
Kathryn Ross	Soft	Oct. 13	June 10	F	40
Paul Tracy				S	80

Yield was obtained using a plot combine to harvest the total plot area after the ends of the plot were trimmed to a standard length. The grain was weighed on an electronic scale and weights were converted to bushels/acre (60 pounds/bushel). Yield was corrected to 13 % moisture.

Test weight and moisture were obtained on the grain of each plot using a Dickey-John GAC II moisture tester.

Thousand kernel weights were obtained for each plot by counting 250 seeds from a sample obtained after testing bushel weight and moisture. Those seeds were oven dried at

165 deg. F. for at least two days prior to weighing. The resultant weight was multiplied by 4 to obtain the weight of 1,000 seeds.

Entering Varieties in the Testing Program

All public varieties which show any obvious potential are entered at all locations where tests are conducted. The Missouri Seed Improvement Association provides funding to conduct the testing of these varieties. Privately developed varieties are entered into the Missouri test by their originators or purchasers. Entry is voluntary and entrants choose their entries and pay the state a fee for each entry and location to help defray the expenses of these tests. 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 1988 performance test contained 53 soft red and 22 hard red winter wheat varieties. Of those soft varieties, 25 were public and 28 were private varieties. The hard red winter wheat tests contained 14 public varieties, 5 private varieties, and 3 private hybrids. The soft wheat tests have been planted separately from the hard wheat tests the past several years. In order to provide some check between the hard and soft tests, TAM 107 and Arkan (hard wheats) have been included as checks at all soft wheat locations. Caldwell (a soft wheat) has been planted as a check at each hard wheat testing site.

Table 2. Private company entrants and their entries in the 1988 Wheat Performance Tests.

Entrant	Class	Brand	Name
Nickerson American Plant Breeders	Soft	Agripro	Hancock
RR2, P.O. Box 411		Agripro	Lincoln
Brookston, IN 47923		Agripro	Magnum
317-563-3111		Agripro	Steele
		Agripro	Traveler
		Agripro	Twain
Nickerson American Plant Breeders	Hard	Agripro	Abilene
P.O. Box 30		Agripro	Mesa
Berthoud, CO 80513		Agripro	Thunderbird
303-532-3721		Agripro	NA-W85-120 Exp
Cargill Seed Division	Hard	Bounty Hybrid	122
2540 East Drake Rd.		Bounty Hybrid	205
Ft. Collins, CO 80525		Bounty Hybrid	WH 180001 Exp
303-482-8818			
Coker Pedigreed Seeds, Inc.	Soft	Coker	McNair 1003
P.O. Box 729		Coker	916
Bay, AR 72411		Coker	9227
501-483-7691		Coker	9323
or		Coker	9733
P.O. Box 507		Coker	9766
Lebanon, IN 46502		Coker	9877
317-482-0403			

Table 2. (continued)

Entrant	Class	Brand	Name
Merschman Seeds, Inc. 103 Ave D West Point, IA 52656 319-837-6111	Soft	Merschman Merschman Merschman Merschman Merschman	Bintee IV Genie III Julie II Katie III Katie IV
	Hard	Merschman	Meggie III
Pioneer Hi-Bred Intl., Inc. 7000 Pioneer Parkway Box 256 Johnston, IA 50131 515-270-2170	Soft	Pioneer Pioneer	2551 2555
Reeds Seeds, Inc. P.O. Box 130 Chillicothe, MO 64701 816-646-4426	Soft	Reeds Reeds	1004 1008
Lakeside States 920 Long Blvd Suite 8 Lansing, MI 48911 517-694-646	Soft	Lakeside States	Hillsdale
Terra International # 3 Henson Place Champaign, IL 61820 217-398-1585	Soft	Terra Terra	SR 86 SR 87
United Agri Seeds P.O. Box 4011 Champaign, IL 61820 217-373-5300	Soft	United AgriSeeds United AgriSeeds United AgriSeeds	7101 86-3104 87-3106

New Variety Descriptions

Soft Wheats

Clark is a new release from Purdue University and was tested under the experimental number **IN 77249**. It has reddish-brown colored heads at maturity. It appeared to have excellent winter survival. Large seeds seem to be a trend with this variety. Although its reaction to foliar diseases was difficult to obtain in 1988, leaf rust pustules were evident and their reaction type indicated that it may be susceptible to that disease. That is somewhat unusual for varieties released by Purdue.

Dynasty is the newest release from the Ohio State University. Since Ohio varieties have done well in Missouri locations in the past, we always test their new releases. Dynasty is a bearded variety which appears to be somewhat earlier maturing than older Ohio released

Becker and Cardinal. It appears to be somewhat susceptible to leaf rust and did not distinguish itself in this, its first year of testing in Missouri.

Florida 303 and **FL 7927-G29 (Exp)** were added to the test for the first time this year. Since Florida 302 has performed well in southern Missouri, we have been testing any new Florida lines as they become available. Both of these varieties are very susceptible to winter injury and should not be recommended for planting in Missouri - even in the Bootheel.

Massey was tested for the first time this year even though it has been released some time ago by Virginia. Although it performed fairly well at some locations and was the highest yielding variety at Lamar, it appears to be very susceptible to leaf rust and is likely also susceptible to other rust species.

Recently released varieties - **Cardinal** (Ohio) and **Keiser** (Arkansas) - have been tested several years and were described in last year's report.

Hard Wheats

Arapahoe is a new release from Nebraska and was tested as **NE 82656**. It did not distinguish itself in its first year of testing. Yield, test weight, seed weight, and winter survival were below average. It is relatively late in maturity and may not be well suited to Missouri growers.

KS 83-1374 (Exp) is an experimental line being considered for release by Kansas State University. In this first year of testing, it yielded well only at Mt. Vernon in southwest Missouri. It appears to be early maturing and has very good leaf rust resistance.

Relatively new releases - **Redland** (Nebraska), **Dodge** (Kansas) and **Norkan** (Kansas) - were described in last year's report. None of them performed well in 1988 in Missouri.

There were many newly tested private wheat varieties in 1988. For information on those private varieties, please consult with the entrants listed in Table 2.

Analyzing the Results

The performance of a variety cannot be measured with absolute precision since many conditions may contribute to variability. Consequently, we use statistics as a tool to determine whether observed differences are "real" or in statistical terminology - "significant." The **Least Significant Difference (LSD)** is that statistical tool which we have used in this report to help determine "real" differences and is listed at the bottom of each column for which we have a statistical analysis. **Unless two varieties differ in yield or any other characteristic by more than the LSD, little confidence can be placed in one being superior to the other.**

Variety performance is variable from location to location and year to year due to many environmental factors. An improved estimate of performance is obtained as more locations and years are considered. Those varieties which did not yield significantly less than the highest yielding variety in a test are indicated by an asterisk while the highest yielding variety within each test has two asterisks. **The probability of a variety yielding well in a planned production environment is greater if a variety has more asterisks across years and locations.** Other characteristics such as test weight, harvest moisture, height, standability, and pest resistance are also important in selecting a variety and that information is shown in the tables following this narrative.

Figure 2. 1988 Wheat Variety Testing Sites in Missouri.

Table 3. Yield (Bu/A) of soft red winter wheat varieties at Missouri Test Locations - 1988.

Brand and/or Name	Spickard	Columbia	Lamar	Mt. Vernon	Bertrand	Portage-ville	Average
Pioneer 2555	53.7 *	84.8 *	59.3 *	61.6 *	90.0 **	58.4 *	67.9 **
Merschman Katie IV	65.6 **	79.6	52.8	58.4	74.4	65.5 **	66.1 *
Agripro Steele	62.3 *	73.8	49.9	62.8 *	81.7 *	55.8	64.4
Reeds 1008	58.9 *	81.8 *	40.7	61.2	81.7 *	60.5 *	64.1
Pike	61.1 *	78.5	43.9	58.4	72.7	63.8 *	63.1
MO 10501 (Exp)	50.5	78.5	50.4	58.5	77.4	62.9 *	63.0
Tyler	53.6 *	82.8 *	45.0	59.4	81.9 *	54.9	63.0
Pioneer 2551	57.5 *	82.6 *	40.9	59.5	75.6	59.0 *	62.5
Terra SR 86	54.3 *	79.6	39.9	60.0	81.1	58.8 *	62.3
Becker	60.5 *	81.3 *	40.7	60.4	68.8	59.6 *	61.9
Coker 916	47.1	75.5	55.2 *	56.3	79.8	56.8	61.8
United AgriSeeds 86-3104	60.6 *	73.7	39.6	59.0	79.1	57.6 *	61.6
United AgriSeeds 87-3106	50.7	73.2	54.1 *	61.5 *	74.2	51.7	60.9
Cardinal	51.0	71.8	51.0	59.4	78.8	53.2	60.9
Massey	45.3	76.4	60.4 **	56.3	67.5	59.0 *	60.8
Terra SR 87	54.1 *	75.2	44.8	55.3	69.4	64.8 *	60.6
Saluda	59.7 *	74.2	28.9	64.2 *	82.2 *	54.0	60.5
Caldwell	56.7 *	79.2	40.4	57.2	74.2	54.4	60.4
Agripro Hancock	40.9	76.0	53.9 *	58.9	75.8	56.3	60.3
MO 9965 (Exp)	48.8	76.9	45.6	57.5	78.1	54.3	60.2
Florida 302	33.1	73.9	35.2	68.1 **	81.2	65.4 *	59.5
Merschman Katie III	51.5 *	79.1	44.8	60.3	64.2	56.8	59.4
Coker 9227	34.8	66.4	55.0 *	65.4 *	73.4	56.0	58.5
Merschman Julie II	53.8 *	78.1	31.1	58.4	74.1	54.9	58.4
Merschman Bintee IV	58.1 *	76.5	31.2	51.1	76.2	55.8	58.1
Dynasty	63.2 *	72.2	45.6	47.6	67.6	52.5	58.1
Coker 9877	34.1	61.1	52.0	58.8	79.5	60.2 *	57.6
Agripro Twain	48.6	76.6	40.2	60.9	60.2	57.1 *	57.3
Rosen	49.8	70.2	42.7	53.7	71.5	55.6	57.3
Clark	45.3	68.2	53.5 *	56.3	68.3	51.7	57.2
Coker McNair 1003	33.9	70.5	46.6	61.3	73.8	55.8	57.0
Coker 9323	38.9	65.4	32.6	62.7 *	80.2	60.7 *	56.8
Scotty	46.3	70.3	41.9	49.9	66.7	57.3 *	55.4
Agripro Lincoln	52.3 *	71.5	28.7	55.4	66.2	55.9	55.0
Agripro Traveler	29.3	58.6	46.4	59.4	76.2	59.9 *	54.9
Keiser	36.3	71.6	39.8	51.6	70.2	56.1	54.3
Coker 9766	43.1	70.7	30.7	52.7	69.7	57.4 *	54.1
Coker 9733	30.2	62.1	48.1	61.0	70.9	52.0	54.1
Reeds 1004	47.8	68.3	40.5	47.6	64.0	54.3	53.8
Compton	45.9	66.3	39.0	50.6	67.8	52.0	53.6
Merschman Genie III	46.7	69.7	28.8	54.4	68.0	51.7	53.2
Agripro Magnum	40.2	62.4	36.6	52.0	68.1	53.8	52.2
Nelson	42.7	64.9	43.5	45.3	63.6	52.4	52.1
Florida 303	18.9	38.9	53.8 *	60.1	73.6	58.8 *	50.7
MO 10503 (Exp)	43.3	70.2	23.0	46.9	61.3	59.0 *	50.6
United AgriSeeds 7101	50.5	67.6	22.5	40.5	65.4	50.1	49.4
Adder	38.1	61.1	33.7	43.6	68.8	46.6	48.6
FL 7927-G29 (Exp)	18.1	32.3	49.4	64.7 *	74.9	52.2	48.5
Fillmore	43.3	61.1	22.8	45.6	63.8	47.5	47.3
Arthur 71	44.2	64.5	28.3	40.2	54.9	51.8	47.3
Auburn	46.5	62.9	24.0	40.9	62.4	41.8	46.4
Florida 301	10.1	31.7	43.5	49.0	59.3	58.3 *	42.1
Lakeside States Hillsdale	46.1	55.0	9.6	33.9	55.6	43.5	40.6
TAM 107 (hard)	65.0 *	87.9 **	51.1	50.3	76.4	55.2	64.3
Arkan (hard)	47.1	73.5	35.0	40.1	66.0	54.5	52.4
Average	48.2	70.2	41.3	55.0	71.8	55.6	56.8
LSD .05	14.5	6.7	7.4	6.6	8.6	8.6	3.5
C.V. %	20.0	6.8	12.9	8.6	8.6	10.9	11.0

** - Highest yielding Variety in the Test.
* - Indicates those varieties which do not differ significantly (LSD= .05) from the highest.

Table 4. Yield (as percent of test average) of soft winter wheat varieties - Missouri Test Locations-1988.

Brand and/or Name	Spickard	Columbia	Lamar	Mt. Vernon	Bertrand	Portage-ville	Average
Pioneer 2555	111*	121*	144*	112*	125**	105*	120**
Merschman Katie IV	136**	113	128	106	104	118**	116*
Agripro Steele	129*	105	121	114*	114*	100	113
Reeds 1008	122*	117*	99	111	114*	109*	113
Pike	127*	112	106	106	101	115*	111
MO 10501 (Exp)	105	112	122	106	108	113*	111
Tyler	111*	118*	109	108	114*	99	111
Pioneer 2551	119*	118*	99	108	105	106*	110
Terra SR 86	113*	113	97	109	113	106*	110
Becker	125*	116*	99	110	96	107*	109
Coker 916	98	108	134*	102	111	102	109
United AgriSeeds 86-3104	126*	105	96	107	110	104*	108
United AgriSeeds 87-3106	105	104	131*	112*	103	93	107
Cardinal	106	102	123	108	110	96	107
Massey	94	109	146**	102	94	106*	107
Terra SR 87	112*	107	108	101	97	117*	107
Saluda	124*	106	70	117*	114*	97	107
Caldwell	118*	113	98	104	103	98	106
Agripro Hancock	85	108	131*	107	106	101	106
MO 9965 (Exp)	101	110	110	105	109	98	106
Florida 302	69	105	85	124**	113	118*	105
Merschman Katie III	107*	113	108	110	89	102	105
Coker 9227	72	95	133*	119*	102	101	103
Merschman Julie II	112*	111	75	106	103	99	103
Merschman Bintee IV	120*	109	76	93	106	100	102
Dynasty	131*	103	110	87	94	94	102
Coker 9877	71	87	126	107	111	108*	101
Agripro Twain	101	109	97	111	84	103*	101
Rosen	103	100	103	98	100	100	101
Clark	94	97	130*	102	95	93	101
Coker McNair 1003	70	100	113	111	103	100	100
Coker 9323	81	93	79	114*	112	109*	100
Scotty	96	100	101	91	93	103*	98
Agripro Lincoln	109*	102	69	101	92	101	97
Agripro Traveler	61	83	112	108	106	108*	97
Keiser	75	102	96	94	98	101	96
Coker 9766	89	101	74	96	97	103*	95
Coker 9733	63	88	116	111	99	94	95
Reeds 1004	99	97	98	87	89	98	95
Compton	95	94	94	92	94	94	94
Merschman Genie III	97	99	70	99	95	93	94
Agripro Magnum	83	89	89	95	95	97	92
Nelson	89	92	105	82	89	94	92
Florida 303	39	55	130*	109	103	106*	89
MO 10503 (Exp)	90	100	56	85	85	106*	89
United AgriSeeds 7101	105	96	54	74	91	90	87
Adder	79	87	82	79	96	84	86
FL 7927-G29 (Exp)	38	46	120	118*	104	94	85
Fillmore	90	87	55	83	89	85	83
Arthur 71	92	92	69	73	76	93	83
Auburn	97	90	58	74	87	75	82
Florida 301	21	45	105	89	83	105*	74
Lakeside States Hillsdale	96	78	23	62	77	78	71
TAM 107 (hard)	135*	125**	124	91	106	99	113
Arkan (hard)	98	105	85	73	92	98	92
Average	100	100	100	100	100	100	100
LSD .05	30.0	9.5	18.0	12.0	12.0	15.5	6.2

** - Highest yielding Variety in the Test.
* - Indicates those varieties which do not differ significantly (LSD= .05) from the highest.

Table 5. Two year average yield (bu/a) of soft red winter wheat varieties at Missouri Test Locations-1987-1988.

Brand and/or Name	Spickard	C & NE # Missouri	Lamar	Mt. Vernon	Bertrand	Portage-ville	Average
Pioneer 2555	64.2 *	74.8 *	61.0 **	55.7	70.2 *	68.1 *	65.7 **
Pioneer 2551	70.4 *	75.0 *	42.2	55.1	66.9	70.8 *	63.4 *
Reeds 1008	61.2	75.5 *	41.8	59.2 *	70.7 *	67.2	62.6 *
Caldwell	70.0 *	70.0 *	49.9	52.9	66.8	63.7	62.2
MO 10501 (Exp)	61.4 *	67.6	51.3	53.2	70.6 *	68.6 *	62.1
Cardinal	62.5 *	63.9	53.1 *	56.6	73.4 *	61.7	61.9
Florida 302	51.9	67.1	41.1	63.7 **	72.0 *	74.5 **	61.7
Tyler	56.8	74.4 *	49.4	54.7	71.2 *	62.2	61.5
Saluda	67.6 *	69.5 *	24.6	62.1 *	77.3 **	67.1	61.4
Becker	65.5 *	72.4 *	40.5	57.2	64.3	67.4	61.2
MO 9965 (Exp)	61.9 *	66.3	48.7	54.4	66.3	60.1	59.6
Pike	62.5 *	65.9	43.8	47.0	67.0	70.2 *	59.4
Coker McNair 1003	47.2	64.8	46.9	59.2 *	72.0 *	64.6	59.1
Merschman Julie II	58.4	68.6	42.1	54.0	65.8	63.1	58.7
Merschman Bintee IV	62.2 *	68.9	34.9	48.2	67.2	62.5	57.3
Coker 9733	47.5	58.1	47.7	56.1	65.3	61.8	56.1
Reeds 1004	56.4	60.1	44.3	49.2	63.9	61.5	55.9
Scotty	52.9	61.8	44.9	51.2	60.9	61.9	55.6
Compton	57.2	63.7	36.7	47.6	66.5	60.7	55.4
Rosen	51.5	60.0	40.7	50.3	64.8	63.0	55.0
Merschman Genie III	56.8	63.4	34.8	53.3	59.8	60.9	54.8
Nelson	52.9	59.4	47.2	44.4	63.2	59.0	54.3
Keiser	45.2	58.3	38.1	51.4	67.6	62.2	53.8
Fillmore	48.4	52.4	39.4	48.7	59.6	54.5	50.5
Adder	42.9	52.1	36.4	40.8	63.5	57.2	48.8
Arthur 71	53.2	57.0	33.9	40.7	53.1	55.0	48.8
Auburn	49.8	59.6	32.3	42.6	57.3	50.0	48.6
Florida 301	30.0	33.8	46.8	45.6	59.2	62.7	46.4
TAM 107 (hard)	70.5 **	76.3 **	52.0 *	44.9	67.6	59.3	61.8
Arkan (hard)	56.9	63.8	39.0	35.1	58.9	59.0	52.1
Average	56.5	64.2	42.9	51.2	65.8	62.7	57.2
LSD .05	9.4	6.9	9.0	4.9	8.6	6.7	3.1
C.V. %	15.7	10.2	19.9	9.1	12.4	10.1	12.8

- Average of Novelty trials in 1987 (NE) and Columbia trials in 1988 (C).
** - Highest yielding Variety in the Test.
* - Indicates those varieties which do not differ significantly (LSD= .05) from the highest.

Table 6. Two year average yields (as percent of test average) of soft red winter wheat varieties at Missouri Test Locations - 1987-1988.

Brand and/or Name	Spickard	C & NE Missouri	Lamar	Mt. Vernon	Bertrand	Portage-ville	Average
Pioneer 2555	114 *	117 *	142 **	109	107 *	109 *	115 **
Pioneer 2551	125 *	117 *	98	108	102	113 *	111 *
Reeds 1008	108	118 *	97	116 *	107 *	107	109 *
Caldwell	124 *	109 *	116	103	101	102	109
MO 10501 (Exp)	109 *	105	120	104	107 *	109 *	109
Cardinal	111 *	100	124 *	111	112 *	98	108
Florida 302	92	105	96	124 **	109 *	119 **	108
Tyler	101	116 *	115	107	108 *	99	107
Saluda	120 *	108 *	57	121 *	118 **	107	107
Becker	116 *	113 *	94	112	98	107	107
MO 9965 (Exp)	110 *	103	114	106	101	96	104
Pike	111 *	103	102	92	102	112 *	104
Coker McNair 1003	83	101	109	116 *	109 *	103	103
Merschman Julie II	103	107	98	105	100	101	103
Merschman Bintee IV	110 *	107	81	94	102	100	100
Coker 9733	84	90	111	110	99	99	98
Reeds 1004	100	94	103	96	97	98	98
Scotty	94	96	105	100	93	99	97
Compton	101	99	86	93	101	97	97
Rosen	91	93	95	98	99	100	96
Merschman Genie III	101	99	81	104	91	97	96
Nelson	94	92	110	87	96	94	95
Keiser	80	91	89	100	103	99	94
Fillmore	86	82	92	95	91	87	88
Adder	76	81	85	80	97	91	85
Arthur 71	94	89	79	79	81	88	85
Auburn	88	93	75	83	87	80	85
Florida 301	53	53	109	89	90	100	81
TAM 107 (hard)	125 **	119 **	121 *	88	103	95	108
Arkan (hard)	101	99	91	69	89	94	91
Average	100	100	100	100	100	100	100
LSD .05	17	11	21	10	13	11	5
C.V. %							

- Average of Novelty trials in 1987 (NE) and Columbia trials in 1988 (C).
** - Highest yielding Variety in the Test.
* - Indicates those varieties which do not differ significantly (LSD= .05) from the highest.

Table 7. Test Weight (Lb/Bu) of soft red winter wheat varieties at Missouri Test Locations - 1988.

Brand and/or Name	Spickard	Columbia	Lamar	Mt. Vernon	Bertrand	Portage-ville	Average
Coker 9227	61.3	63.0	64.0	64.6	62.1	63.6	63.1
Saluda	61.0	63.4	62.6	63.7	62.0	63.0	62.6
Reeds 1004	60.9	62.5	61.9	62.6	60.8	62.3	61.8
Agripro Hancock	61.1	62.2	61.4	61.4	59.5	61.9	61.2
Compton	60.2	61.9	61.2	61.6	60.0	61.1	61.0
MO 9965 (Exp)	61.0	61.6	60.7	61.2	59.6	61.6	60.9
Agripro Traveler	59.7	61.3	61.8	60.5	60.8	61.5	60.9
Florida 303	58.4	60.5	61.7	61.7	60.7	62.2	60.8
Merschman Genie III	59.8	61.8	60.9	61.7	61.0	59.8	60.8
United AgriSeeds 86-3104	58.9	61.0	61.1	62.0	60.5	61.2	60.8
Nelson	59.0	61.9	61.6	60.3	60.0	61.8	60.8
Coker 916	59.7	62.7	61.4	60.2	59.0	61.6	60.8
Caldwell	58.7	61.6	61.5	60.9	60.4	61.6	60.8
Pike	59.7	61.6	61.6	62.0	58.7	60.9	60.7
Massey	58.5	61.4	61.6	61.4	59.9	61.5	60.7
Arthur 71	59.7	61.8	61.1	61.4	58.0	62.4	60.7
Agripro Twain	59.6	63.5	62.0	61.6	56.8	60.5	60.7
Kelser	58.5	61.0	61.9	61.7	59.9	60.5	60.6
Merschman Julie II	59.7	61.3	60.7	61.6	60.2	59.3	60.5
Pioneer 2555	58.6	60.9	61.7	61.0	58.6	61.0	60.3
Merschman Bintee IV	58.8	61.1	61.4	60.6	59.7	59.8	60.2
Dynasty	59.3	61.1	61.1	60.3	58.3	61.2	60.2
Agripro Magnum	58.7	61.4	61.1	60.7	59.3	60.1	60.2
Florida 301	55.4	60.4	60.1	61.2	61.1	62.8	60.1
MO 10501 (Exp)	58.1	60.7	60.8	61.2	59.5	60.5	60.1
FL 7927-G29 (Exp)	56.6	59.4	62.4	62.2	59.1	61.0	60.1
Merschman Katie III	59.0	60.9	60.3	61.1	58.3	60.8	60.0
Terra SR 87	59.3	60.3	60.5	61.3	58.1	60.7	60.0
Coker 9733	58.4	61.0	62.3	60.3	56.9	61.1	60.0
Merschman Katie IV	59.4	60.0	59.5	60.2	59.3	60.9	59.9
Terra SR 86	57.6	60.3	61.2	60.7	58.8	60.3	59.8
Reeds 1008	58.0	59.8	61.5	61.1	58.3	59.9	59.8
Coker 9766	58.5	59.9	60.9	60.1	58.7	59.3	59.5
Agripro Lincoln	59.3	60.4	60.0	60.3	56.1	61.1	59.5
Tyler	58.2	59.9	61.1	60.1	58.9	58.8	59.5
Scotty	58.1	60.7	60.1	60.6	56.8	60.7	59.5
Florida 302	58.6	59.7	61.0	59.5	58.3	58.9	59.3
Rosen	57.9	59.6	59.7	60.3	58.2	60.3	59.3
Pioneer 2551	58.4	59.1	61.0	59.6	57.8	59.7	59.3
Coker 9323	57.9	59.5	59.9	60.3	57.6	59.4	59.1
Clark	58.0	60.0	59.3	59.4	57.5	60.1	59.1
Cardinal	57.9	60.1	60.0	59.7	58.0	58.2	59.0
Coker 9877	58.1	59.1	61.6	59.3	56.6	59.1	59.0
Auburn	58.2	60.8	60.7	59.3	57.3	55.7	58.7
Agripro Steele	57.4	58.9	58.9	59.6	58.1	58.3	58.5
Fillmore	57.7	60.7	60.4	60.2	57.4	54.1	58.4
United AgriSeeds 7101	58.3	60.7	60.2	59.0	54.2	57.2	58.3
Coker McNair 1003	56.8	59.2	59.1	58.7	56.4	58.5	58.1
Adder	55.7	59.6	60.5	57.5	57.0	58.6	58.1
United AgriSeeds 87-3106	56.9	59.0	58.5	58.9	57.1	58.1	58.1
MO 10503 (Exp)	56.8	59.3	57.8	58.1	55.8	59.9	58.0
Becker	57.2	58.8	58.4	57.5	55.7	58.4	57.7
Lakeside States Hillsdale	57.0	59.1	57.0	55.6	51.7	47.3	54.6
TAM 107 (hard)	61.3	62.8	62.8	57.8	59.0	61.9	60.9
Arkan (hard)	60.5	62.6	61.4	63.6	60.8	62.4	61.9
Average	58.8	60.8	60.8	60.5	58.5	60.1	59.9
LSD .05	1.4	0.8	0.8	2.0	2.1	1.7	0.6
C.V. %	1.6	1.0	0.9	2.4	2.6	2.0	1.8

Table 8. Two year average Test Weight (lb/bu) of soft red winter wheat varieties at Missouri Test locations - 1987 - 1988.

Brand and/or Name	Spickard	C & NE # Missouri	Lamar	Mt. Vernon	Bertrand	Portage-ville	Average
Reeds 1004	59.4	61.6	61.0	60.4	60.4	60.7	60.6
Saluda	58.8	61.9	59.7	59.4	60.3	60.1	60.0
Compton	59.3	61.6	59.9	59.3	59.5	60.0	59.9
Arthur 71	58.7	61.0	60.4	59.1	58.1	60.5	59.6
Nelson	58.0	61.1	60.5	57.6	59.8	60.4	59.5
Caldwell	58.3	61.3	60.7	56.6	58.0	60.2	59.2
MO 9965 (Exp)	59.0	61.0	59.7	57.6	57.6	59.7	59.1
Pike	58.7	60.4	59.7	58.3	57.6	58.9	59.0
Merschman Bintee IV	57.7	60.7	60.4	58.4	58.3	58.3	59.0
Coker 9733	58.4	61.1	61.4	58.6	53.7	60.1	58.9
Merschman Genie III	58.5	61.6	60.0	57.6	57.2	58.2	58.9
Keiser	57.0	59.6	60.6	57.8	58.0	59.3	58.7
MO 10501 (Exp)	57.6	60.2	59.9	58.3	57.2	59.1	58.7
Florida 301	55.5	60.2	59.3	57.0	59.4	60.9	58.7
Merschman Julie II	58.1	60.6	59.9	57.4	58.0	57.8	58.7
Cardinal	57.4	59.8	59.5	58.0	57.9	56.6	58.2
Rosen	56.8	59.0	59.1	58.5	56.9	58.7	58.2
Pioneer 2555	56.9	59.7	59.6	57.3	55.5	59.6	58.1
Reeds 1008	56.0	58.5	60.6	57.5	56.7	58.2	57.9
Auburn	57.9	60.7	60.6	57.4	55.8	54.5	57.8
Scotty	57.1	59.7	59.0	58.2	54.1	58.6	57.8
Fillmore	57.8	57.4	60.9	58.1	57.1	54.8	57.7
Tyler	56.1	59.5	59.8	56.3	56.0	56.9	57.4
Florida 302	56.8	56.5	60.1	56.8	56.4	57.7	57.4
Pioneer 2551	57.1	59.0	59.4	56.3	54.6	57.6	57.3
Coker McNair 1003	55.6	58.9	58.4	56.5	55.5	57.0	57.0
Adder	55.1	58.4	59.5	54.4	56.3	57.3	56.8
Becker	55.7	58.5	57.0	55.4	52.8	57.0	56.1
TAM 107 (hard)	59.2	62.1	61.6	55.3	58.3	59.9	59.4
Arkan (hard)	59.0	61.9	60.6	59.2	60.4	60.5	60.3
Average	57.6	60.1	60.0	57.6	57.3	58.6	58.5
LSD .05	1.1	1.5	1.2	1.8	2.6	1.4	0.7
C.V. %	1.8	2.4	1.8	3.0	4.3	2.3	2.7

- Average of Novelty trials in 1987 (NE) and Columbia trials in 1988 (C).

Table 9. Weight of 1000 seeds (grams) of soft red winter wheat varieties at Missouri Test Locations - 1988.

Brand and/or Name	Planted Seed	Spickard	Columbia	Lamar	Mt. Vernon	Bertrand	Portage-ville	Average
Pioneer 2555	39.7	29.6	35.0	37.4	32.8	36.3	36.7	34.6
Coker McNair 1003	36.8	31.8	33.8	36.6	31.6	34.8	36.6	34.2
Florida 302	39.2	29.9	34.5	36.2	30.2	32.9	35.9	33.3
Reeds 1004	41.8	29.4	31.7	33.8	29.4	37.5	36.3	33.0
Merschman Katie IV	32.3	27.9	33.4	33.3	30.5	34.1	35.3	32.4
Florida 301	34.5	28.2	31.0	30.8	31.4	35.0	35.9	32.1
Florida 303	35.3	28.5	30.6	33.5	29.8	34.0	35.2	31.9
Agripro Traveler	33.5	29.0	31.7	32.6	29.3	34.1	33.4	31.7
Clark	35.4	28.4	32.0	32.8	31.2	32.2	33.2	31.6
FL 7927-G29 (Exp)	33.1	26.1	28.9	33.7	31.4	33.1	34.8	31.3
Coker 9227	34.0	27.6	31.9	30.9	31.8	32.4	33.1	31.3
Cardinal	31.9	27.8	29.9	32.2	30.6	34.3	32.6	31.2
Coker 916	31.5	28.6	31.5	32.7	28.9	31.2	33.7	31.1
United AgriSeeds 87-3106	36.6	28.2	30.4	31.7	30.3	32.5	33.3	31.1
Massey	38.6	26.2	31.1	32.5	28.9	32.3	33.7	30.8
Rosen	29.5	28.0	29.6	31.1	28.4	31.3	33.6	30.3
Keiser	33.1	26.3	29.5	33.4	28.6	31.5	31.5	30.1
Compton	34.2	27.6	28.5	29.5	28.5	33.1	33.7	30.1
Pike	36.7	27.1	31.0	30.7	29.3	30.7	31.7	30.1
Coker 9733	35.4	28.6	30.3	31.0	28.5	30.0	32.0	30.1
Agripro Twain	32.7	24.9	29.7	34.4	29.8	29.1	31.0	29.8
Agripro Steele	36.9	27.5	28.3	30.1	28.0	32.5	32.2	29.8
MO 9965 (Exp)	31.5	28.2	29.6	29.3	28.6	30.2	31.5	29.6
Reeds 1008	32.4	26.1	29.4	31.9	27.8	30.3	32.0	29.6
Saluda	33.0	25.7	28.8	29.9	29.4	33.1	30.0	29.5
Agripro Hancock	30.8	26.1	28.8	29.9	28.5	30.5	31.9	29.3
Arthur 71	37.6	27.1	29.1	28.2	27.6	31.1	32.4	29.2
United AgriSeeds 86-3104	31.1	26.5	27.6	29.7	28.7	31.3	30.8	29.1
Becker	34.9	26.7	28.3	33.1	27.6	28.1	30.8	29.1
MO 10501 (Exp)	31.1	25.5	29.1	29.7	27.9	30.9	30.6	29.0
Tyler	29.2	26.4	28.2	31.5	26.3	30.2	29.8	28.7
Coker 9877	30.6	25.6	27.7	31.4	24.8	30.0	32.0	28.6
Terra SR 87	33.9	26.2	28.8	28.2	28.0	29.1	30.7	28.5
Nelson	25.9	26.8	27.5	28.6	26.7	31.0	29.7	28.4
Terra SR 86	32.2	24.3	27.0	31.3	27.9	29.7	29.7	28.3
Scotty	31.0	25.9	27.3	30.0	28.2	27.4	31.1	28.3
Merschman Katie III	31.7	25.5	28.3	28.2	28.1	27.3	30.4	27.9
Merschman Julie II	30.1	24.9	26.8	28.6	27.3	30.2	29.0	27.8
United AgriSeeds 7101	31.3	24.2	27.1	30.6	26.2	26.5	31.5	27.7
Coker 9766	29.7	25.1	26.5	32.7	25.2	28.3	28.1	27.7
Pioneer 2551	28.6	26.2	26.3	30.5	24.3	29.0	28.9	27.5
Agripro Magnum	31.6	23.9	26.7	29.2	26.4	29.5	29.4	27.5
Lakeside States Hillsdale	39.6	25.4	26.4	32.4	24.3	25.6	30.5	27.4
Merschman Genie III	30.1	23.5	25.7	27.4	26.6	30.8	30.4	27.4
Dynasty	30.6	25.4	27.1	28.8	24.7	28.3	29.0	27.2
Agripro Lincoln	32.6	23.7	26.2	31.3	25.6	25.7	29.6	27.0
MO 10503 (Exp)	27.2	23.7	25.7	29.6	24.0	27.5	29.7	26.7
Merschman Bintee IV	30.8	22.7	26.5	27.8	25.7	27.9	28.5	26.5
Fillmore	31.9	21.8	24.7	28.8	25.0	26.6	31.1	26.3
Coker 9323	27.0	23.1	25.6	27.4	24.6	27.6	28.6	26.2
Caldwell	31.2	21.9	25.8	26.7	24.9	28.1	27.0	25.7
Adder	33.1	22.9	24.1	29.5	23.2	27.3	27.3	25.7
Auburn	36.0	23.0	25.1	27.5	24.4	26.7	26.3	25.5
TAM 107 (hard)	33.8	30.2	31.5	35.1	31.5	31.5	32.8	32.1
Arkan (hard)	23.8	25.6	28.4	26.5	27.0	29.6	29.0	27.7
Average		26.2	28.8	30.9	27.9	30.5	31.5	29.3
LSD .05		3.4	1.5	1.7	2.5	2.5	1.6	0.8
C.V. %		5.3	3.8	3.9	6.3	5.8	3.6	4.8

Table 10. Two year average weight of 1,000 seeds (grams) of soft red winter wheat varieties at Missouri Test Locations - 1987-1988.

Brand and/or Name	Spickard	C & NE # Missouri	Lamar	Mt. Vernon	Bertrand	Portage-ville	Average
Coker McNair 1003	32.8	34.3	37.3	31.1	33.1	34.9	33.9
Pioneer 2555	31.0	35.1	37.0	31.0	32.3	35.0	33.6
Reeds 1004	30.6	33.1	35.1	28.8	35.2	34.9	32.9
Florida 302	30.7	33.9	36.9	29.2	30.8	34.7	32.7
Cardinal	29.6	31.8	33.3	29.7	31.6	31.5	31.2
Florida 301	29.9	31.8	31.9	28.7	32.7	33.1	31.2
Compton	28.7	30.3	32.5	27.5	30.5	31.8	30.2
Rosen	29.1	31.4	33.1	27.2	28.8	31.7	30.2
Keiser	27.8	29.8	34.2	27.6	30.2	30.9	30.1
Coker 9733	30.0	30.5	31.7	28.1	28.4	30.7	29.8
Pike	28.6	31.5	31.8	27.5	28.9	29.5	29.6
MO 10501 (Exp)	28.0	30.6	30.7	27.0	29.8	28.9	29.1
MO 9965 (Exp)	28.8	30.5	30.0	26.9	28.0	30.0	29.0
Becker	27.5	29.7	33.2	26.5	26.7	29.8	28.9
Arthur 71	28.6	29.9	30.0	25.9	30.1	28.9	28.7
Reeds 1008	25.8	30.1	31.5	27.1	27.4	30.2	28.7
Saluda	26.5	28.9	31.3	27.4	29.0	27.9	28.5
Scotty	27.7	28.5	30.3	26.7	27.2	29.1	28.2
Nelson	27.6	28.8	29.3	25.5	29.6	28.2	28.2
Tyler	25.9	29.4	31.6	25.8	27.5	27.7	28.0
Pioneer 2551	27.4	27.9	30.8	24.0	28.0	27.1	27.5
Merschman Bintee IV	25.0	28.3	29.7	24.2	26.5	27.2	26.8
Merschman Julie II	26.0	27.5	28.8	24.9	27.0	26.3	26.7
Merschman Genie III	25.1	27.3	27.6	24.4	28.0	27.8	26.6
Fillmore	24.5	25.9	29.8	24.7	24.9	28.5	26.4
Adder	25.2	25.5	30.4	21.9	26.0	25.9	25.9
Caldwell	23.3	27.1	27.6	23.5	25.1	25.9	25.4
Auburn	24.2	26.6	27.1	22.8	24.4	24.9	25.0
TAM 107 (hard)	30.9	32.7	34.4	28.4	29.7	30.7	31.1
Arkan (hard)	27.1	29.6	27.5	24.4	27.6	27.1	27.2
Average	27.8	30.0	31.5	26.6	28.8	29.7	29.1
LSD .05	2.2	1.2	1.6	1.8	2.0	2.2	0.7
C.V. %	7.4	3.9	4.7	6.3	6.4	7.1	6.0

- Average of Novelty trials in 1987 (NE) and Columbia trials in 1988 (C).

Table 11. Survival (%) of soft red winter wheat varieties at Missouri Test Locations - 1988.

Brand and/or Name	Spickard	Novelty	Columbia	Lamar	Mt. Vernon	Bertrand	Portage-ville	Average
Pioneer 2555	91	66	94	89	100	99	100	95
Becker	92	80	89	94	99	99	99	95
Clark	91	76	90	91	98	99	100	95
Compton	91	64	90	93	98	95	100	94
Agripro Steele	94	51	91	86	98	98	100	94
Dynasty	93	79	91	91	95	96	99	94
Pioneer 2551	91	69	93	90	96	94	100	94
Merschman Katie IV	95	70	89	89	95	98	98	94
Pike	95	78	85	89	99	94	99	93
United AgriSeeds 87-3106	90	58	91	86	95	96	100	93
Scotty	94	76	86	89	95	94	100	93
Agripro Twain	91	74	86	91	94	94	99	93
United AgriSeeds 7101	93	76	91	84	93	95	100	93
Coker 916	80	33	88	95	100	95	96	92
Lakeside States Hillsdale	84	54	80	95	100	95	100	92
Agripro Lincoln	93	63	86	86	93	96	100	92
Reeds 1004	88	38	85	88	100	93	100	92
Fillmore	87	80	89	88	100	89	98	92
Adder	88	54	94	78	94	98	100	92
Arthur 71	89	65	88	88	96	91	99	92
MO 10501 (Exp)	89	54	88	88	93	94	100	92
Caldwell	93	79	89	85	94	91	98	91
Agripro Hancock	91	75	88	83	93	96	99	91
Merschman Katie III	88	66	85	88	96	93	99	91
United AgriSeeds 86-3104	89	46	88	85	96	93	98	91
Massey	76	28	80	93	100	100	99	91
Auburn	89	44	89	84	94	93	99	91
Rosen	88	21	80	86	98	95	100	91
Terra SR 86	91	80	84	89	95	91	95	91
Merschman Genie III	89	25	86	81	96	91	100	91
Merschman Julie II	90	63	88	83	94	90	99	90
MO 10503 (Exp)	85	58	88	85	94	91	99	90
Reeds 1008	93	66	76	90	94	91	98	90
Merschman Bintee IV	86	54	89	79	94	93	99	90
MO 9965 (Exp)	88	34	85	81	93	91	99	89
Tyler	89	74	78	83	94	94	96	89
Terra SR 87	88	68	72	85	96	91	100	89
Coker 9766	78	16	81	85	96	93	99	89
Nelson	86	34	79	79	93	94	99	88
Keiser	70	24	78	90	91	96	99	87
Saluda	86	33	83	78	89	88	98	87
Cardinal	89	48	79	83	89	86	90	86
Coker McNair 1003	65	23	75	74	95	88	98	82
Coker 9733	75	25	54	89	90	88	95	82
Coker 9323	70	28	70	74	88	86	93	80
Coker 9877	56	8	56	95	84	81	91	77
Coker 9227	55	8	65	80	90	81	90	77
Agripro Magnum	79	58	66	58	69	65	95	72
Florida 302	34	10	50	71	89	85	91	70
Agripro Traveler	43	9	50	59	79	63	85	63
Florida 301	7	5	9	61	83	61	79	50
FL 7927-G29 (Exp)	6	5	10	45	71	56	59	41
Florida 303	7	5	11	45	76	49	53	40
TAM 107 (hard)	93	51	94	83	90	91	98	91
Arkan (hard)	86	71	83	83	94	90	100	89
Average	80.0	49.5	78.3	82.7	92.7	89.5	95.8	86.5
LSD .05	8.6	22.1	7.9	8.5	4.6	4.8	4.3	2.7
C.V. %	7.7	31.9	7.2	7.4	3.5	3.8	3.2	5.6

Table 12. Two year average survival ratings of soft red winter wheat varieties at Missouri test locations - 1987-1988.

Brand and/or Name	Spickard	C & NE # Missouri	Lamar	Mt. Vernon	Bertrand	Portage-ville	Average
Becker	93	91	91	97	97	96	93
Pioneer 2555	93	91	89	99	96	99	92
Pioneer 2551	93	93	91	97	91	96	91
Scotty	95	84	91	96	93	97	91
Pike	94	86	86	99	92	96	91
Compton	92	89	89	94	92	96	90
MO 10501 (Exp)	91	88	89	95	93	96	89
Caldwell	94	87	86	91	87	91	88
Arthur 71	91	89	86	95	88	95	88
Reeds 1008	93	84	87	92	89	97	88
Tyler	91	84	84	92	91	95	88
Merschman Julie II	92	89	86	93	88	95	88
Adder	90	92	82	94	95	94	88
Reeds 1004	91	86	89	97	93	97	87
Fillmore	88	86	83	91	86	91	87
Merschman Bintee IV	89	91	83	92	89	94	87
Saluda	90	88	82	93	89	97	86
Auburn	91	86	84	94	91	90	86
Cardinal	91	84	84	89	89	92	85
Nelson	89	84	83	94	93	94	85
MO 9965 (Exp)	90	89	84	94	89	91	85
Merschman Genie III	91	87	83	95	89	94	84
Rosen	90	74	88	93	92	95	83
Keiser	79	77	90	94	94	96	83
Coker 9733	84	69	90	87	89	94	80
Coker McNair 1003	77	82	76	92	89	96	80
Florida 302	59	66	80	92	86	95	74
Florida 301	43	36	69	84	74	86	60
TAM 107 (hard)	93	92	86	89	91	92	89
Arkan (hard)	89	87	84	93	89	94	86
Average	88	84	85	93	90	94	86
LSD .05	5.1	6.5	5.4	3.8	3.6	3.7	2.6
C.V. %	5.5	7.3	6.0	3.9	3.8	3.7	7.4

- Average of Novelty trials in 1987 (NE) and Columbia trials in 1988 (C).

Table 13. Harvest Moisture (%) of soft red winter wheat varieties at Missouri Test Locations - 1988.

Brand and/or Name	Spickard	Columbia	Lamar	Mt. Vernon	Bertrand	Portage-ville	Average
United AgriSeeds 87-3106	10.4	9.0	9.6	9.7	9.3	10.3	9.7
Adder	9.7	9.0	9.9	9.4	9.6	11.6	9.9
Becker	10.4	9.3	9.8	9.7	9.7	10.8	9.9
Rosen	10.3	9.1	9.6	9.9	9.7	11.1	10.0
Agripro Steele	10.2	9.2	9.7	10.1	9.8	10.8	10.0
Scotty	10.2	9.1	9.6	10.0	9.7	11.4	10.0
Agripro Traveler	10.0	9.6	10.1	9.9	10.0	10.7	10.0
Clark	10.6	9.2	9.7	9.8	10.1	11.0	10.0
Coker McNair 1003	10.1	9.4	10.0	10.3	10.0	10.8	10.1
Coker 916	10.4	9.4	10.0	10.0	9.8	11.0	10.1
Arthur 71	10.4	9.4	9.8	9.9	9.9	11.3	10.1
Compton	10.7	9.1	9.8	10.1	9.7	11.3	10.1
Pioneer 2551	10.3	9.0	9.9	9.7	10.1	12.0	10.2
Nelson	10.5	9.5	10.2	10.0	9.9	11.2	10.2
Coker 9323	10.6	9.4	10.0	9.8	10.2	11.3	10.2
United AgriSeeds 86-3104	10.5	9.5	9.9	10.3	9.6	11.5	10.2
Agripro Magnum	10.4	9.6	10.1	10.2	10.2	10.9	10.2
FL 7927-G29 (Exp)	10.0	9.8	10.4	10.4	9.8	11.0	10.2
Coker 9766	10.4	9.6	9.9	10.3	10.0	11.3	10.2
Massey	10.2	9.5	10.2	10.2	10.0	11.3	10.3
MO 9965 (Exp)	10.9	9.5	9.9	10.1	10.2	11.2	10.3
MO 10503 (Exp)	10.5	9.0	9.6	9.7	9.9	13.2	10.3
Caldwell	10.8	9.6	10.1	10.1	10.1	11.3	10.3
Reeds 1004	10.8	9.7	10.2	10.3	10.0	11.3	10.4
Agripro Hancock	10.9	9.6	10.1	10.0	10.0	11.7	10.4
Pioneer 2555	10.7	9.7	10.5	10.2	10.1	11.2	10.4
Merschman Katie III	10.8	9.8	10.3	10.4	9.8	11.4	10.4
Reeds 1008	10.6	9.4	10.1	10.4	10.4	11.6	10.4
Agripro Lincoln	10.9	9.5	9.9	10.7	9.7	12.0	10.4
Keiser	10.7	9.5	10.1	10.5	10.2	11.7	10.4
Coker 9227	10.6	9.7	10.4	10.7	10.2	11.2	10.4
Dynasty	10.6	9.5	9.9	10.1	9.8	12.9	10.4
Florida 301	11.8	9.5	10.2	10.1	10.2	11.2	10.5
Terra SR 86	11.0	9.5	10.2	10.5	10.2	11.6	10.5
Florida 303	10.6	9.8	10.5	10.3	10.5	11.6	10.5
Florida 302	10.6	9.8	10.3	10.4	10.1	12.2	10.5
Merschman Katie IV	11.1	9.5	10.4	10.3	10.1	12.0	10.6
Coker 9733	11.0	9.9	10.5	10.5	10.1	11.4	10.6
Tyler	10.9	9.6	10.3	10.5	10.0	12.1	10.6
Saluda	10.7	9.9	10.2	10.6	10.5	11.7	10.6
MO 10501 (Exp)	10.9	9.7	10.3	10.8	10.0	11.8	10.6
Terra SR 87	11.1	9.8	10.4	10.5	10.4	11.4	10.6
Agripro Twain	11.2	10.0	10.3	10.5	10.5	11.4	10.6
Pike	10.8	9.8	10.5	10.9	10.4	11.8	10.7
Merschman Julie II	10.7	9.5	9.9	10.3	10.2	14.8	10.9
Merschman Bintee IV	10.8	9.5	10.3	10.2	10.2	15.0	11.0
Merschman Genie III	10.4	9.5	9.9	10.6	9.7	16.1	11.0
Coker 9877	10.6	10.0	10.4	11.3	10.9	14.5	11.3
Cardinal	11.0	9.5	10.3	10.9	10.7	16.9	11.5
United AgriSeeds 7101	10.6	9.1	9.6	9.7	11.1	19.0	11.5
Auburn	10.2	9.2	9.8	10.1	10.0	20.9	11.7
Fillmore	10.7	9.4	9.8	10.6	11.0	25.6	12.9
Lakeside States Hillsdale	10.3	9.1	9.2	10.1	12.7	35.3	14.4
TAM 107 (hard)	11.0	9.2	10.3	9.8	10.3	10.7	10.2
Arkan (hard)	10.7	9.5	10.0	9.7	9.9	11.1	10.1
Average	10.6	9.5	10.0	10.2	10.1	12.8	10.5
LSD .05	0.5	0.3	0.3	0.3	0.8	1.8	0.3
C.V. %	3.2	2.0	2.0	2.4	5.7	9.9	5.7

Table 14. Two year average Harvest Moisture (%) of soft red winter wheat varieties at Missouri Test Locations - 1987-1988.

Brand and/or Name	Spickard	C & NE # Missouri	Lamar	Mt. Vernon	Bertrand	Portage-ville	Average
Becker	12.5	11.3	10.1	10.4	11.4	12.5	11.4
Pioneer 2551	12.2	11.2	10.5	10.3	11.3	13.3	11.5
Coker McNair 1003	12.3	11.2	10.8	10.8	11.5	13.0	11.6
Scotty	12.5	11.4	10.6	10.6	11.3	13.4	11.6
Rosen	12.6	11.3	10.5	10.7	11.7	12.9	11.6
Arthur 71	12.5	11.3	10.7	10.8	11.5	12.9	11.6
Adder	12.2	12.2	10.6	10.0	11.6	13.3	11.7
MO 9965 (Exp)	12.7	11.4	10.6	10.6	11.8	12.7	11.7
Nelson	12.5	11.4	11.1	10.6	11.8	12.8	11.7
Compton	13.0	11.4	10.5	10.6	11.9	13.1	11.8
Caldwell	12.8	11.7	10.9	10.7	11.9	13.0	11.8
Keiser	12.6	11.8	10.8	10.8	11.8	13.3	11.9
Saluda	12.8	11.7	10.7	10.9	12.3	13.1	11.9
Florida 301	13.2	11.6	10.9	10.7	12.2	12.8	11.9
Pioneer 2555	12.8	12.3	11.1	10.4	11.7	13.2	11.9
Reeds 1004	12.9	11.7	11.1	10.9	12.0	13.5	12.0
Reeds 1008	12.8	11.6	11.0	10.9	12.3	13.5	12.0
Tyler	12.9	12.2	11.1	11.0	11.7	13.8	12.1
MO 10501 (Exp)	13.1	11.8	11.3	11.1	11.9	13.6	12.1
Coker 9733	13.2	12.2	11.4	11.0	11.7	13.5	12.2
Merschman Julie II	12.8	11.6	10.7	10.9	11.9	15.2	12.2
Florida 302	12.9	13.7	11.1	10.5	11.8	13.9	12.3
Pike	13.1	12.5	11.2	11.3	12.2	13.7	12.3
Merschman Bintee IV	12.9	11.9	10.8	10.4	12.3	15.9	12.3
Merschman Genie III	12.9	11.8	10.8	10.9	11.5	16.5	12.4
Cardinal	13.3	11.9	11.1	11.4	12.2	17.6	12.9
Auburn	12.7	11.8	10.8	10.7	12.0	22.0	13.3
Fillmore	13.0	14.2	11.0	11.1	13.0	25.1	14.6
TAM 107 (hard)	12.9	11.4	10.9	10.3	12.0	12.5	11.7
Arkan (hard)	12.6	11.4	10.8	10.3	12.0	12.6	11.6
Average	12.8	11.8	10.9	10.7	11.9	14.3	12.1
LSD .05	0.4	0.9	0.3	0.3	0.6	1.0	0.3
C.V. %	2.7	7.3	2.5	2.4	4.6	6.7	5.0

- Average of Novelty trials in 1987 (NE) and Columbia Trials in 1988 (C).

Table 15. Lodging ratings and Heading dates (days after January 1) of soft red winter wheat varieties at Missouri Test Locations - 1988.

Brand and/or Name	Lodging #	Heading Dates				
	Bertrand	Spickard	Columbia	Mt. Vernon	Portage-ville	Average
Agripro Traveler	0.2	133	129	127	114	126
Coker 9227	3.3	135	129	127	114	126
Coker 916	0.6	134	129	128	114	126
Florida 301	3.0	137	129	127	112	126
Florida 303	0.2	137	131	128	112	127
FL 7927-G29 (Exp)	0.9	137	131	128	113	127
United AgriSeeds 87-3106	1.8	134	130	129	116	127
Clark	1.6	134	129	130	118	128
Nelson	2.5	134	129	130	119	128
MO 9965 (Exp)	0.2	134	130	129	119	128
Merschman Katie IV	0.6	135	131	130	118	128
Coker 9323	0.8	136	130	129	118	128
Agripro Magnum	1.9	135	131	130	118	128
Coker 9733	2.3	136	129	130	119	129
Merschman Katie III	2.5	135	131	130	120	129
Terra SR 87	2.2	136	131	130	119	129
Agripro Twain	1.4	136	130	130	120	129
Rosen	0.7	136	131	130	120	129
Pike	3.6	135	131	130	121	129
Reeds 1004	3.4	135	131	130	121	129
MO 10501 (Exp)	1.0	135	132	130	121	129
Arthur 71	5.1	135	131	131	120	129
Agripro Steele	0.2	136	132	130	120	129
Pioneer 2555	0.2	136	132	130	120	129
Massey	1.8	137	131	131	119	129
Caldwell	0.2	135	131	130	122	129
Saluda	1.6	135	132	160	121	130
United AgriSeeds 86-3104	0.6	136	132	130	121	130
Keiser	4.0	137	131	130	121	130
Scotty	0.9	136	132	160	121	130
Merschman Bintee IV	0.2	136	131	130	122	130
Coker McNair 1003	1.8	137	131	130	121	130
Agripro Lincoln	2.0	136	132	130	121	130
Terra SR 86	1.2	135	132	130	123	130
Merschman Julie II	0.2	135	132	130	123	130
Florida 302	0.2	137	131	131	121	130
Compton	1.4	136	133	130	121	130
Agripro Hancock	2.5	134	133	131	122	130
Merschman Genie III	0.2	136	132	131	123	130
Coker 9766	2.2	138	132	131	121	130
Adder	1.3	136	133	131	122	130
Pioneer 2551	0.2	136	133	131	123	131
Dynasty	0.6	135	133	132	123	131
Reeds 1008	3.1	136	133	132	123	131
Tyler	2.1	137	133	133	123	131
Becker	0.7	137	134	132	123	131
Cardinal	0.6	136	134	131	125	131
Coker 9877	2.1	138	133	133	123	132
MO 10503 (Exp)	1.7	138	133	133	124	132
United AgriSeeds 7101	1.0	137	133	132	126	132
Auburn	0.2	136	133	133	128	132
Fillmore	2.1	137	136	136	128	134
Lakeside States Hillsdale	2.8	137	137	137	129	135
TAM 107 (hard)	0.6	134	129	127	115	126
Arkan (hard)	4.1	135	130	130	116	128
Average	1.5	135.5	131.4	130.3	120.3	129.4
LSD .05	1.7	2.0	0.8	0.9	1.2	0.6
C.V. %	82.3	1.0	0.5	0.5	0.7	0.7

- Belgian Lodging scale: 0.2 = whole plot erect; 9.0 = whole plot completely flat.

Table 16. Two year average heading date (Julian - days after January 1) for soft red winter wheat varieties at Missouri Test Locations - 1987-1988.

Brand and/or Name	Spickard	Mt. Vernon	Portage-ville	Average
Florida 301	136	126	112	125
Nelson	134	127	118	126
MO 9965 (Exp)	134	126	119	126
MO 10501 (Exp)	134	128	120	127
Arthur 71	135	128	120	127
Coker 9733	137	128	119	127
Reeds 1004	135	128	120	127
Caldwell	135	127	121	128
Rosen	136	128	119	128
Pioneer 2555	136	128	120	128
Scotty	136	128	120	128
Pike	136	128	120	128
Merschman Bintee IV	135	127	121	128
Merschman Julie II	135	128	122	128
Coker McNair 1003	137	128	120	128
Saluda	135	128	122	128
Compton	136	128	120	128
Keiser	137	128	121	128
Florida 302	138	129	120	129
Pioneer 2551	136	129	122	129
Adder	137	128	121	129
Merschman Genie III	136	128	122	129
Reeds 1008	136	130	122	129
Cardinal	136	129	123	129
Tyler	137	130	122	130
Becker	137	130	122	130
Auburn	137	131	126	131
Fillmore	138	132	127	133
TAM 107 (hard)	133	126	115	125
Arkan (hard)	134	128	116	126
Average	136	128	120	128
LSD .05	1.3	0.7	1.2	0.5
C.V. %	0.9	0.5	0.9	0.8

Table 17. Height (Inches) Of soft red winter wheat varieties at Missouri Test Locations -1988

Brand and/or Name	Spickard	Columbia	Lamar	Mt. Vernon	Bertrand	Portage-ville	Average
Adder	24	31	38	33	38	34	33
United AgriSeeds 7101	26	34	36	30	39	34	33
Becker	26	31	36	33	38	34	33
Florida 303	22	30	38	36	38	35	33
Saluda	27	32	37	34	38	34	34
FL 7927-G29 (Exp)	22	30	40	38	39	36	34
Coker 9323	24	33	37	37	40	36	34
Merschman Genie III	27	36	36	34	38	36	34
Agripro Magnum	26	33	38	35	40	36	35
Agripro Hancock	27	34	38	35	40	35	35
Auburn	28	35	38	32	39	37	35
Rosen	28	33	39	34	40	35	35
Agripro Traveler	25	33	38	37	39	37	35
Compton	27	33	39	34	41	36	35
Pioneer 2551	29	34	38	34	39	36	35
MO 10503 (Exp)	25	34	40	34	41	37	35
Pioneer 2555	27	33	40	34	41	36	35
United AgriSeeds 87-3106	28	35	39	36	39	35	35
Scotty	28	35	39	34	41	37	35
Coker 9766	25	35	41	35	41	37	36
Coker 916	27	35	40	36	41	36	36
Agripro Steele	28	34	39	37	40	36	36
United AgriSeeds 86-3104	27	36	39	36	41	36	36
Merschman Bintee IV	29	35	38	36	40	36	36
MO 9965 (Exp)	30	35	39	35	40	36	36
Coker 9877	23	34	42	36	42	39	36
Agripro Lincoln	28	35	38	35	42	39	36
Merschman Julie II	27	36	41	36	41	37	36
Coker 9227	27	34	41	37	42	37	36
Florida 302	25	37	41	38	41	37	36
Dynasty	29	35	40	36	42	38	37
Caldwell	31	36	39	37	41	37	37
Clark	29	35	40	37	42	37	37
Coker McNair 1003	25	37	41	37	44	38	37
Lakeside States Hillsdale	25	37	44	35	43	39	37
Fillmore	29	38	40	37	42	39	37
Arthur 71	30	34	40	38	44	39	37
Merschman Katie IV	29	36	42	38	42	37	37
Massey	27	38	43	37	44	39	38
Cardinal	28	38	43	37	46	39	38
Tyler	28	38	43	39	43	41	39
Agripro Twain	29	37	44	40	44	38	39
Pike	32	38	40	38	45	41	39
Merschman Katie III	30	38	41	39	45	40	39
Florida 301	24	34	44	45	45	42	39
Terra SR 86	29	38	45	39	44	40	39
Reeds 1008	29	40	43	37	46	42	39
Terra SR 87	32	38	39	39	47	42	39
MO 10501 (Exp)	29	38	44	38	46	41	39
Reeds 1004	29	38	45	40	46	40	40
Nelson	31	39	44	40	45	40	40
Coker 9733	30	39	46	40	47	42	40
Kelser	26	42	48	41	49	44	42
TAM 107 (hard)	28	36	38	33	40	35	35
Arkan (hard)	29	38	41	37	43	37	37
Average	27.5	35.4	40.3	36.4	41.7	37.5	36.4
LSD .05	3.1	2.3	2.1	2.0	1.7	1.5	0.9
C.V. %	7.9	4.6	3.7	3.9	3.0	2.9	4.2

Table 18. Two year average height (inches) of soft red winter wheat varieties at Missouri Test Locations - 1987-1988.

Brand and/or Name	Spickard	C & NE # Missouri	Lamar	Mt. Vernon	Bertrand	Portage-ville	Average
Becker	28	30	32	31	37	35	32
Adder	27	30	34	31	37	35	32
Saluda	28	31	33	32	38	35	33
Pioneer 2551	30	33	33	30	37	36	33
Rosen	29	32	34	32	38	35	33
Merschman Genie III	29	34	34	32	37	37	34
Compton	30	32	34	31	39	37	34
Pioneer 2555	30	32	36	32	39	36	34
MO 9965 (Exp)	30	34	35	32	38	36	34
Auburn	31	34	35	31	38	37	34
Scotty	30	33	36	32	39	37	35
Merschman Bintee IV	31	34	34	33	38	38	35
Merschman Julie II	30	35	37	33	39	37	35
Florida 302	29	35	37	35	39	38	36
Caldwell	33	34	35	35	39	37	36
Coker McNair 1003	29	35	37	33	41	38	36
Arthur 71	33	34	36	36	41	39	36
Fillmore	32	36	37	36	41	39	37
Pike	33	37	36	34	43	41	37
Cardinal	32	37	38	34	44	39	37
Nelson	34	37	38	36	42	39	38
Tyler	32	37	39	35	42	42	38
Reeds 1008	33	38	38	35	43	41	38
MO 10501 (Exp)	32	37	39	35	44	41	38
Reeds 1004	32	36	39	37	44	41	38
Florida 301	30	35	40	41	44	42	38
Coker 9733	33	39	41	37	45	42	39
Keiser	31	41	43	38	46	43	40
TAM 107 (hard)	30	33	34	30	38	35	33
Arkan (hard)	31	35	36	33	40	37	36
Average	30.8	34.7	36.3	33.8	40.3	38.2	35.7
LSD .05	1.9	1.6	1.7	1.8	1.7	1.9	0.7
C.V. %	5.9	4.3	4.5	5.0	4.1	4.6	4.7

- Average of Novelty trials in 1987 (NE) and Columbia trials in 1988 (C).

Table 19. Disease ratings for soft red winter wheat varieties at Missouri Test Locations - 1988.

Brand and/or Name	Barley Yellow Dwarf Virus Rating #				Dryland Footrot	Powdery Mildew	Leaf Rust
	Columbia Dwarf Reaction	Lamar Color Reaction	Portage-ville Color Reaction	Average BYDV Rating	Mt. Vernon %	Bertrand %	Bertrand %
Keiser	3.0	3.0	2.0	2.7	2	9	0.0
Coker 9877	3.8	2.5	1.8	2.7	1	26	0.0
Florida 302	4.0	3.0	1.3	2.8	0	0	0.3
MO 10503 (Exp)	4.3	2.5	1.5	2.8	1	43	0.0
Merschman Katie IV	3.3	2.8	2.3	2.8	3	33	0.0
Pioneer 2551	2.3	2.8	3.5	2.8	1	6	0.0
Caldwell	3.3	3.5	2.3	3.0	1	25	0.8
Agripro Steele	3.5	2.8	3.0	3.1	1	5	0.0
Massey	2.5	4.3	2.5	3.1	3	1	5.8
Dynasty	3.5	3.5	2.3	3.1	1	4	2.3
Reeds 1008	2.8	3.8	3.0	3.2	1	0	2.0
Coker 9227	2.3	3.8	3.5	3.2	0	3	0.0
Terra SR 86	3.5	3.8	2.3	3.2	1	25	2.0
Coker 9323	4.3	3.5	2.0	3.3	0	0	0.0
Florida 303	3.5	3.5	3.0	3.3	1	0	0.0
MO 10501 (Exp)	3.3	4.5	2.3	3.3	2	18	0.0
United AgriSeeds 7101	4.3	3.5	2.3	3.3	8	13	0.0
Cardinal	4.8	3.8	1.8	3.4	0	24	0.0
Tyler	3.3	3.8	3.3	3.4	0	4	3.3
Nelson	3.5	4.0	2.8	3.4	12	18	0.0
Pike	2.8	4.5	3.0	3.4	2	35	0.0
Merschman Bintee IV	3.5	4.3	2.8	3.5	3	15	0.3
Agripro Traveler	4.3	3.8	2.5	3.5	0	0	0.0
Merschman Katie III	3.0	4.0	3.8	3.6	1	9	0.0
FL 7927-G29 (Exp)	6.0	3.3	3.5	3.7	0	0	0.0
Fillmore	4.5	5.0	1.5	3.7	0	10	0.0
Coker 9733	3.3	4.5	3.3	3.7	0	0	0.0
Clark	4.5	3.3	3.3	3.7	1	45	1.5
Saluda	6.0	3.5	1.8	3.8	0	0	0.3
Agripro Lincoln	4.8	4.0	2.5	3.8	1	9	0.0
MO 9965 (Exp)	3.8	3.8	4.0	3.8	1	49	0.8
Coker 916	3.8	4.8	3.0	3.8	1	1	0.0
Lakeside States Hillsdale	4.0	5.0	2.5	3.8	0	1	0.0
Compton	4.8	4.5	2.8	4.0	3	9	0.0
Merschman Genie III	5.0	5.3	2.0	4.1	0	3	0.0
Scotty	3.8	4.8	4.0	4.2	10	1	0.0
United AgriSeeds 86-3104	4.8	4.8	3.3	4.3	3	1	0.0
Florida 301	5.0	5.3	3.3	4.3	0	4	0.0
Rosen	5.0	4.8	3.3	4.3	6	23	1.3
Merschman Julie II	5.3	5.3	2.5	4.3	1	5	0.0
Pioneer 2555	3.3	4.8	5.0	4.3	1	6	0.3
Terra SR 87	5.0	5.5	2.5	4.3	2	10	0.0
Coker 9766	4.5	5.0	3.8	4.4	1	0	0.0
United AgriSeeds 87-3106	4.0	4.8	4.5	4.4	2	9	0.0
Auburn	4.5	5.8	3.5	4.6	1	6	0.0
Agripro Magnum	6.0	5.3	2.5	4.6	5	1	0.3
Reeds 1004	4.5	5.5	4.0	4.7	6	4	0.0
Arthur 71	3.3	6.5	4.5	4.8	12	18	0.3
Agripro Twain	3.8	6.0	5.5	5.1	1	0	0.0
Becker	5.5	5.3	4.8	5.2	0	59	2.8
Agripro Hancock	3.5	7.3	6.3	5.7	0	3	1.0
Coker McNair 1003	5.0	6.3	6.0	5.8	0	4	1.3
Adder	5.8	6.8	5.0	5.8	6	3	0.0
TAM 107 (hard)	1.3	4.8	4.8	3.6	1	0	2.8
Arkan (hard)	3.3	5.3	3.8	4.1	25	29	0.0
Average	3.9	4.4	3.1	3.8	2	12	0.5
LSD .05	1.4	1.6	1.5	0.8	3	13	1.5
C.V. %	23.4	25.9	33.6	27.3	96	81	203

- BYDV ratings: 0 = No plants in the plot showing symptoms; 9 = all of the plants in the plot showing symptoms