PROJECT TITLE: Dryland and Irrigated Spring Wheat Performance Trials near Bridger, Huntley, Molt and Ryegate, Montana. (Exps. 999994, 999995, 999996 and 999997).

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OBJECTIVES: To provide wheat growers in south central Montana with a reliable, unbiased, up-to-date source of information that will permit valid comparisons among improved wheat varieties. This information should help wheat producers in south central Montana select varieties best suited to their particular area and growing conditions.

METHODS: Each 1999 off-station spring wheat trial had 20 entries and was planted using a randomized complete block design with three replications. Dryland test plots consisted of a 15-foot, 4-row plot with 12-inch row spacing. Irrigated test plots consisted of a 15-foot, 7-row plot with 6-inch row spacing. All rows of each test plot were trimmed 36 inches and harvested using an experimental-plot combine. Recorded grain yields were adjusted to 13% grain moisture content, and are reported in bushels per acre based on a 60 pound per bushel test weight. Test weight (pounds per bushel) and percent grain moisture content were obtained for each plot using a Dickey-john GAC 2100 grain analyzer. Grain protein (%) was determined for each entry bulked across replications. Grain protein values were adjusted to 12% grain moisture content. Plant height was measured in inches from the soil surface to the top of the head, excluding the awns if present. Reported plant height values have been rounded to the nearest inch. Heading date was noted at the Huntley dryland and Huntley irrigated site when 50% of the heads in a plot had extended above the flag leaf collar. Heading dates were recorded in Julian days (number of days from January 1) for statistical purposes. Corresponding calendar dates also are presented.

RESULTS and SUMMARY: Agronomic performance of the spring wheat cultivars and experimental lines tested under dryland conditions near Molt during 1999 is presented in Table 1. Molt spring wheat yields averaged 21.7 bu/ac and ranged from 26.1 bu/ac for 'Reeder' to 15.8 bu/ac for 'Grandin'. Ten other entries produced grain yields between 25.7 and 21.5 bu/ac, which was equal to the yield of Reeder. Test weights averaged 50.7 lb/bu. Reeder was the only entry to produce a test weight greater than 58 lb/bu. Grain yield and test weights were below average at Molt due to hailstorm at boot stage coupled with lower than normal precipitation. Grain protein averaged 16.1 percent and ranged from 17.2 percent for 'Fergus' and 'Westbred 926' to 15.4 percent for 'Lew'.

Agronomic performance of the spring wheat cultivars and experimental lines tested under dryland conditions near Ryegate during 1999 is presented in Table 2. Ryegate spring wheat yields averaged 43.1 bu/ac and ranged from 50.9 bu/ac for 'Westbred Express' to 34.0 bu/ac for 'Ernest'. Ten other entries produced grain yields between 48.6 and 44.0 bu/ac, which was equal to the yield of Westbred Express. Test weights averaged 53.8 lb/bu and no entry produced a test weight greater than 58 lb/bu. Grain protein averaged 17.5 percent and

ranged from 18.8 percent for 'Westbred 936' to 16.4 percent for 'Fortuna' and Westbred Express.

Multi-location average agronomic performance under dryland conditions near Molt and Ryegate is presented in Table 3. Averaged across the Molt and Ryegate dryland sites, the highest yielding spring wheat cultivar was also 'Westbred Express' at 37.9 bu/ac. Seven other entries produced grain yields equal to Westbred Express under dryland conditions. Across the dryland locations, average test weight was 52.0 lb/bu with no entry averaging more than the 58 lb/bu standard test weight. Overall dryland yield and test weight averages were lower than normal due to the adverse weather conditions experienced at Molt. Average grain protein under dryland conditions was 16.8 percent.

Agronomic performance of the spring wheat cultivars and experimental lines tested under irrigated conditions near Huntley during 1999 is presented in Table 4. Huntley irrigated spring wheat yields averaged 119.1 bu/ac and ranged from 137.0 bu/ac for 'MTHW9420' to 91.0 for Lew. Fergus, 'Hi-Line', 'McNeal', 'MTHW9701', Westbred 936 and Westbred Express produced grain yields between 131.9 and 126.5, which was equal to the yield of MTHW9420. Test weights averaged 60.1 lb/bu with nineteen entries producing test weights greater than 58 lb/bu. Grain protein averaged 14.6 percent and ranged from 15.7 percent for 'Parshal' to 13.0 percent for MTHW9701.

Agronomic performance of the spring wheat cultivars and experimental lines tested under irrigated conditions near Bridger during 1999 is presented in Table 5. Bridger irrigated spring wheat yields averaged 87.6 bu/ac and ranged from 99.6 bu/ac for 'Grandin' to 75.8 bu/ac for 'Scholar'. Nine other entries produced grain yields between 98.8 and 87.8 bu/ac, which was equal to the yield of Grandin. Test weights averaged 60.4 lb/bu with all entries producing test weights greater than 58 lb/bu. Grain protein averaged 14.1 percent and ranged from 15.8 percent for 'Amidon' to 12.5 percent for Parshal.

Multi-location average agronomic performance under irrigated conditions near Bridger and Huntley is presented in Table 6. Averaged across the Huntley and Bridger irrigated sites, the highest yielding spring wheat cultivar was Westbred Express at 113.4 bu/ace. Ten other entries produced grain yields equal to Westbred Express under irrigation. Across the irrigated locations, average test weight was 60.2 lb/bu with no entry averaging less than the 58 lb/bu standard test weight. Average grain protein under irrigation was 14.4 percent.

Multi-location yield and dryland and irrigated comparisons are presented in Table 7. Multi-location average agronomic performance is presented in Table 8. Averaged across all off-station spring wheat sites, Westbred Express was the highest yielding entry at 75.6 bu/ac. MTHW9701 and Hi-Line produced 71.8 bu/ac, which was equal to the yield of Westbred Express. MTHW9701 performed well at all locations while Hi-Line performed well Bridger, Huntley and Molt.

FUTURE PLANS:

Off-station spring wheat variety evaluations will continue in 2000 at the Bridger, Molt and Ryegate locations. The irrigated trial conducted near Huntley in 1999 will be relocated east to the Hysham area.

Table 1. Performance of 20 spring wheat cultivars tested under dryland conditions near Molt, Montana during 1999. Cultivars listed alphabetically. (Exp. 999994).

Cultivar	1/ Grain Yield	Test Weight	Grain Moisture	Plant Height	2/ Grain Protein
	bu/ac	lb/bu	%	inches	%
Amidon	18.8	46.6	8.2	27	15.7
Conan	25.2*	53.4	8.3	26	15.7
Ernest	19.6	44.9	8.0	30	16.7
Fergus	19.1	50.0	8.4	23	17.2
Fortuna	25.6*	53.1	8.4	29	15.5
Grandin	15.8	39.4	8.0	23	16.0
Hi-Line	21.5*	49.7	8.3	23	16.5
Lew	24.3*	57.2	8.7	28	15.4
McNeal	18.9	50.5	8.0	24	16.3
MTHW9420	18.2	51.5	8.0	22	17.1
MTHW9701	25.3*	55.5	8.5	23	16.7
Newana	19.0	52.7	8.0	24	15.3
Parshal	17.4	45.9	8.4	27	16.2
Pioneer 2375	22.3*	51.7	8.7	25	16.3
Rambo	18.7	42.9	8.3	23	15.5
Reeder	26.1**	58.2	8.4	27	15.9
Scholar	24.2*	52.4	8.5	27	15.6
Westbred 926	25.7*	57.8	8.7	23	17.2
Westbred 936	23.5*	49.4	8.5	21	16.3
Westbred Express	24.8*	51.4	8.9	22	15.8
Average	21.7	50.7	8.4	25	16.1
LSD (p=0.05)	6.3	10.0	ns	4.3	-
CV%	17.5	11.9	5.9	10.6	-

1/ Yields are based on 60 pound standard bushel weight and adjusted to 13.0 percent moisture content.
2/ Grain protein values adjusted to 12 percent grain moisture content.
** Indicates highest yielding cultivar.
* Indicates cultivars yielding equal to highest yielding cultivar based on Fisher's protected LSD (p=0.05).
ns Indicates no significant difference between cultivars within a column based on Fisher's protected LSD (p=0.05).

Molt Dryland Spring Wheat (Exp. 999994)

Planted:	April 20, 1999
Harvested:	August 11, 1999
Fertility:	46-00-00, 100 lb/ac, preplant incorporated by cooperator, date unknown 11-52-00, 100 lb/ac, in-furrow, April 20, 1999 34-00-00, 88 lb/ac, broadcast, June 5, 1999
Herbicide:	Buctril, 1 pt/ac; Harmony Extra, 0.3 oz/ac; R-11, 1% v/v, June 18, 1999
Insecticide:	none
Previous Crop:	summer fallow
Precipitation:	not available
Other:	hit by severe hailstorm, June 17, 1999

Table 2. Performance of 20 spring wheat cultivars tested under dryland conditions near Ryegate, Montana during 1999. Cultivars listed alphabetically. (Exp. 999995).

Cultivar	1/ Grain Yield	Test Weight	Grain Moisture	Plant Height	2/ Grain Protein
	bu/ac	lb/bu	%	inches	%
Amidon	41.8	54.6	8.6	37	16.8
Conan	**44.0***	53.3	8.9	30	17.3
Ernest	34.0	53.4	8.9	36	17.9
Fergus	**46.6***	51.1	8.6	31	18.0
Fortuna	**44.4***	57.7	9.5	39	16.4
Grandin	**44.1***	50.8	8.7	35	17.5
Hi-Line	40.0	52.2	8.7	29	17.6
Lew	36.6	55.0	9.3	37	17.6
McNeal	**48.6***	52.8	8.6	33	18.3
MTHW9420	42.3	50.4	8.7	31	17.8
MTHW9701	**45.0***	53.8	8.5	27	17.7
Newana	41.0	51.9	8.4	31	17.2
Parshal	38.5	47.4	8.7	38	17.4
Pioneer 2375	**48.2***	56.2	9.1	35	17.0
Rambo	**44.3***	54.2	9.1	30	17.4
Reeder	**45.2***	55.1	8.9	33	17.2
Scholar	38.5	56.3	9.0	35	17.8
Westbred 926	**47.5***	52.9	8.5	31	18.6
Westbred 936	41.1	54.4	8.7	29	18.8
Westbred Express	**50.9****	52.8	8.5	29	16.4
Average	43.1	53.3	8.8	33	17.5
LSD (p=0.05)	7.3	4.4	0.4	1.6	
CV%	10.3	5.0	2.8	2.9	

1/ Yields are based on 60 pound standard bushel weight and adjusted to 13.0 percent moisture content.
2/ Grain protein values adjusted to 12 percent grain moisture content.
** Indicates highest yielding cultivar.
* Indicates cultivars yielding equal to highest yielding cultivar based on Fisher's protected LSD (p=0.05).

Ryegate Dryland Spring Wheat (Exp. 999995)

Planted:	March 26, 1999
Harvested:	August 10, 1999
Fertility:	11-52-00, 100 lb/ac, in-furrow, March 26, 1999 34-00-00, 88 lb/ac, broadcast, June 5, 1999
Herbicide:	Buctril, 1 pt/ac; Harmony Extra, 0.3 oz/ac; R-11, 1% v/v, June 18, 1999
Insecticide:	none
Previous Crop:	summer fallow
Precipitation:	not available

Table 3. Performance of 20 spring wheat cultivars tested across two dryland locations in south central Montana during 1999. Cultivars listed alphabetically. (Exps. 999994, 999995).

Cultivar	1/ Grain Yield	Test Weight	Grain Moisture	Plant Height	2/ Grain Protein
	bu/ac	lb/bu	%	inches	%
Amidon	30.3	50.6	8.4	32	16.3
Conan	**34.6***	53.4	8.6	28	16.5
Ernest	26.9	49.2	8.4	33	17.3
Fergus	32.9	50.6	8.5	27	17.6
Fortuna	**35.0***	55.4	9.0	34	16.0
Grandin	30.0	45.1	8.3	29	16.8
Hi-Line	30.9	51.0	8.5	26	17.1
Lew	30.5	56.1	9.0	33	16.5
McNeal	**33.8***	51.6	8.3	29	17.3
MTHW9420	30.3	51.0	8.4	26	17.5
MTHW9701	**35.1***	54.7	8.5	25	17.2
Newana	30.0	52.3	8.2	27	16.3
Parshal	27.9	46.7	8.6	33	16.8
Pioneer 2375	**35.2***	54.0	8.9	30	16.7
Rambo	31.5	48.6	8.7	26	16.5
Reeder	**35.6***	56.7	8.7	30	16.6
Scholar	31.4	54.4	8.7	31	16.7
Westbred 926	**36.6***	55.4	8.6	27	17.9
Westbred 936	32.3	51.9	8.6	25	17.6
Westbred Express	**37.9****	52.1	8.7	26	16.1
Average	32.4	52.0	8.6	29	16.8
LSD (p=0.05)	4.7	5.4	0.4	2.3	-
CV%	12.7	9.0	4.6	6.9	-
Location Years	2	2	2	2	2

1/ Yields are based on 60 pound standard bushel weight and adjusted to 13.0 percent moisture content.
2/ Grain protein values adjusted to 12 percent grain moisture content.
** Indicates highest yielding cultivar.
* Indicates cultivars yielding equal to highest yielding cultivar based on Fisher's protected LSD (p=0.05).

Table 4. Performance of 20 spring wheat cultivars tested under irrigated conditions near Huntley, Montana during 1999. Cultivars listed alphabetically. (Exp. 999996).

Cultivar	1/ Grain Yield	Test Weight	Grain Moisture	Plant Height	2/ Grain Protein	Heading Date Julian	Heading Date Calendar
	bu/ac	lb/bu	%	inches	%		
Amidon	119.1	57.8	14.2	41	14.9	168	Jun 17
Conan	100.8	60.0	11.3	33	14.1	167	Jun 16
Ernest	114.8	58.5	12.1	43	14.9	169	Jun 18
Fergus	127.6*	60.9	11.8	35	14.3	166	Jun 15
Fortuna	92.9	60.3	10.3	42	15.4	168	Jun 17
Grandin	120.4	60.7	11.9	38	15.0	167	Jun 16
Hi-Line	126.6*	61.3	10.4	34	13.7	166	Jun 15
Lew	91.0	60.8	10.8	42	15.1	171	Jun 20
McNeal	128.1*	61.9	10.5	36	15.1	169	Jun 18
MTHW9420	137.0**	60.0	12.8	34	13.7	166	Jun 15
MTHW9701	128.0*	59.3	11.6	34	13.0	166	Jun 15
Newana	119.6	60.4	11.0	36	13.6	171	Jun 20
Parshal	122.8	60.8	12.2	42	15.7	167	Jun 16
Pioneer 2375	118.3	59.3	12.5	36	15.0	163	Jun 12
Rambo	118.1	59.8	13.0	34	13.4	170	Jun 19
Reeder	117.9	60.7	11.5	38	15.3	167	Jun 16
Scholar	116.8	60.0	11.0	41	15.2	169	Jun 18
Westbred 926	123.3	59.8	11.2.	34	14.8	165	Jun 14
Westbred 936	126.5*	60.5	10.9	32	15.5	165	Jun 14
Westbred Express	131.9*	59.2	12.1	31	14.6	168	Jun 17
Average	119.1	60.1	11.8	37	14.6	167	Jun 16
LSD (p=0.05)	11.5	0.8	1.5	2.5	-	<1	
CV%	5.9	0.8	8.0	4.1	-	0.2	

1/ Yields are based on 60 pound standard bushel weight and adjusted to 13.0 percent moisture content.
2/ Grain protein values adjusted to 12 percent grain moisture content.
** Indicates highest yielding cultivar.
* Indicates cultivars yielding equal to highest yielding cultivar based on Fisher's protected LSD (p=0.05).

Huntley Irrigated Spring Wheat (Exp. 999996)

Planted:	April 8, 1999
Harvested:	August 13, 1999
Fertility:	18-46-00, 100 lb/ac, preplant incorporated, April 8, 1999
Herbicide:	Buctril, 1 pt/ac; Harmony Extra, 0.3 oz/ac; R-11, 1% v/v, May 27, 1999
Insecticide:	none
Irrigation:	profile flooded, June 3, 1999 profile flooded, June 30, 1999
Precipitation:	6.67 inches
Previous Crop:	spring peas

Table 5. Performance of 20 spring wheat cultivars tested under irrigated conditions near Bridger, Montana during 1999. Cultivars listed alphabetically. (Exp. 999997).

Cultivar	1/ Grain Yield	Test Weight	Grain Moisture	Plant Height	2/ Grain Protein
	bu/ac	lb/bu	%	inches	%
Amidon	**87.8***	58.4	14.7	39	15.8
Conan	83.6	60.3	13.9	32	14.5
Ernest	83.7	58.9	14.5	39	13.3
Fergus	**89.7***	61.1	13.6	32	14.5
Fortuna	79.4	60.5	14.5	38	13.9
Grandin	**99.6****	61.3	13.6	35	14.1
Hi-Line	**98.8***	60.6	14.1	31	13.5
Lew	77.7	60.6	15.0	37	13.4
McNeal	86.0	61.3	13.5	32	14.2
MTHW9420	84.6	60.7	13.9	32	14.2
MTHW9701	**88.8***	60.0	14.8	30	14.9
Newana	**96.0***	60.2	13.8	30	14.6
Parshal	82.3	60.5	15.1	39	12.5
Pioneer 2375	**89.1***	60.2	14.4	34	14.7
Rambo	**93.9***	60.5	13.6	30	13.1
Reeder	**92.3***	60.7	14.6	35	14.8
Scholar	75.8	60.2	14.3	37	14.0
Westbred 926	82.6	60.3	14.0	32	14.2
Westbred 936	85.5	60.5	13.3	29	13.8
Westbred Express	**94.8***	60.2	13.6	29	14.8
Average	87.6	60.4	14.1	34	14.1
LSD (p=0.05)	12.3	0.5	2.0	1.4	-
CV%	8.5	0.6	2.9	2.6	-

1/ Yields are based on 60 pound standard bushel weight and adjusted to 13.0 percent moisture content.
2/ Grain protein values adjusted to 12 percent grain moisture content.
** Indicates highest yielding cultivar.
* Indicates cultivars yielding equal to highest yielding cultivar based on Fisher's protected LSD (p=0.05).

Bridger Irrigated Spring Wheat (Exp. 999997)

Planted:	April 9, 1999
Harvested:	August 16, 1999
Fertility:	11-52-00, 120 lb/ac, in-furrow, April 9, 1999 34-00-00, 88 lb/ac, broadcast, June 5, 1999
Herbicide:	Buctril, 1 pt/ac; Harmony Extra, 0.3 oz/ac; R-11, 1% v/v, June 17, 1999
Insecticide:	none
Previous Crop:	small grains
Irrigation:	profile flooded, June 3, 1999 profile flooded, June 30, 1999
Precipitation:	not available

Table 6. Performance of 20 spring wheat cultivars tested across two irrigated locations in south central Montana during 1999. Cultivars listed alphabetically. (Exps. 999996, 999997).

Cultivar	1/ Grain Yield	Test Weight	Grain Moisture	Plant Height	2/ Grain Protein
	bu/ac	lb/bu	%	inches	%
Amidon	103.4	58.1	14.5	40	15.4
Conan	92.2	60.2	12.6	33	14.3
Ernest	99.3	58.7	13.3	41	14.1
Fergus	108.7*	61.0	12.7	34	14.4
Fortuna	86.1	60.4	12.4	40	14.7
Grandin	110.0*	61.0	12.8	37	14.6
Hi-Line	112.7*	60.9	12.2	33	13.6
Lew	84.4	60.7	12.9	39	14.3
McNeal	107.1*	61.6	12.0	34	14.7
MTHW9420	110.8*	60.3	13.3	33	14.0
MTHW9701	108.4*	59.7	13.2	32	14.0
Newana	107.8*	60.3	12.4	33	14.1
Parshal	102.6	60.7	13.6	40	14.1
Pioneer 2375	103.7	59.8	13.5	35	14.9
Rambo	106.0*	60.2	13.3	32	13.3
Reeder	105.1*	60.7	13.1	36	15.1
Scholar	96.3	60.1	12.7	39	14.6
Westbred 926	102.9	60.1	12.6	33	14.5
Westbred 936	106.0*	60.5	12.1	31	14.7
Westbred Express	113.4**	59.7	12.8	30	14.7
Average	103.3	60.2	12.9	35.3	14.4
LSD (p=0.05)	8.3	0.5	0.8	1.4	-
CV%	7.0	0.7	5.6	3.5	-
Location Years	2	2	2	2	2

1/ Yields are based on 60 pound standard bushel weight and adjusted to 13.0 percent moisture content.
2/ Grain protein values adjusted to 12 percent grain moisture content.
** Indicates highest yielding cultivar.
* Indicates cultivars yielding equal to highest yielding cultivar based on Fisher's protected LSD (p=0.05).

Table 7 Yield[1/] of 20 spring wheat cultivars and experimental lines tested under dryland and irrigated conditions in south central Montana during 1999. Cultivars listed by declining four-location average yield. (Exps. 999994, 999995, 999996, 999997).

Cultivar	Dryland Locations		Dryland	Irrigated Locations		Irrigated	Four Location
	Molt	Ryegate	Average	Bridger	Huntley	Average	Average
	bu/ac						
Westbred Express	24.8*	50.9**	37.9**	94.8*	131.9*	113.4**	75.6**
Hi-Line	21.5*	40.0	30.9	98.8*	126.6*	112.7*	71.8*
MTHW9701	25.3*	45.0*	35.1*	88.8*	128.0*	108.4*	71.8*
Fergus	19.1	46.6*	32.9	89.7*	127.6*	108.7*	70.8
MTHW9420	18.2	42.3	30.3	84.6	137.0**	110.8*	70.5
McNeal	18.9	48.6*	33.8*	86.0	128.1*	107.1*	70.4
Reeder	26.1**	45.2*	35.6*	92.3*	117.9	105.1*	70.4
Grandin	15.8	44.1*	30.0	99.6**	120.4	110.0*	70.0
Westbred 926	25.7*	47.5*	36.6*	82.6	123.3	102.9	69.8
Pioneer 2375	22.3*	48.2*	35.2*	89.1*	118.3	103.7	69.5
Westbred 936	23.5*	41.1	32.3	85.5	126.5*	106.0*	69.2
Newana	19.0	41.0	30.0	96.0*	119.6	107.8*	68.9
Rambo	18.7	44.3*	31.5	93.9*	118.1	106.0*	68.8
Amidon	18.8	41.8	30.3	87.8*	119.1	103.4	66.9
Parshal	17.4	38.5	27.9	82.3	122.8	102.6	65.2
Scholar	24.2*	38.5	31.4	75.8	116.8	96.3	63.9
Conan	25.2*	44.0*	34.6*	83.6	100.8	92.2	63.4
Ernest	19.6	34.0	26.9	83.7	114.8	99.3	63.1
Fortuna	25.6*	44.4*	35.0*	79.4	92.9	86.1	60.6
Lew	24.3*	36.6	30.5	77.7	91.0	84.4	57.4
Average	21.7	43.1	32.4	87.6	119.1	103.3	67.9
LSD (p=0.05)	7.8	6.4	4.7	7.0	10.1	8.3	4.7
CV%	13.6	6.8	12.7	6.3	7.3	7.0	8.7

1/ Yields are based on 60 pound standard bushel weight and adjusted to 13.0 percent moisture content.

** Indicates highest yielding cultivar within a column.

* Indicates cultivars yielding equal to highest yielding cultivar in a column based on Fisher's protected LSD (p=0.05).

Table 8. Performance of 20 spring wheat cultivars tested across four locations in south central Montana during 1999. Cultivars listed alphabetically. (Exps. 999994, 999995, 999996, 999997).

Cultivar	1/ Grain Yield	Test Weight	Grain Moisture	Plant Height	2/ Grain Protein
	bu/ac	lb/bu	%	inches	%
Amidon	66.9	54.3	11.5	36	15.8
Conan	63.4	56.8	10.6	30	15.4
Ernest	63.1	53.9	10.9	37	15.7
Fergus	70.8	55.8	10.6	30	16.0
Fortuna	60.6	57.9	10.7	37	15.3
Grandin	70.0	53.0	10.5	33	15.7
Hi-Line	71.8*	55.9	10.3	29	15.3
Lew	57.4	58.4	10.9	36	15.4
McNeal	70.4	56.6	10.1	31	16.0
MTHW9420	70.5	55.6	10.8	30	15.7
MTHW9701	71.6*	57.2	10.8	28	15.6
Newana	68.9	56.3	10.3	30	15.2
Parshal	65.2	53.7	11.1	37	15.5
Pioneer 2375	69.5	56.9	11.2	33	15.8
Rambo	68.8	54.4	11.0	29	14.9
Reeder	70.4	58.7	10.9	33	15.8
Scholar	63.9	57.2	10.7	35	15.7
Westbred 926	69.8	57.7	10.6	30	16.2
Westbred 936	69.2	56.2	10.4	28	16.1
Westbred Express	75.6**	55.9	10.8	28	15.4
Average	67.9	56.1	10.7	32.0	15.6
LSD (p=0.05)	4.7	2.6	0.5	1.9	-
CV%	8.7	5.9	5.4	5.2	-
Location Years	4	4	4	4	4

1/ Yields are based on 60 pound standard bushel weight and adjusted to 13.0 percent moisture content.
2/ Grain protein values adjusted to 12 percent grain moisture content.
** Indicates highest yielding cultivar.
* Indicates cultivars yielding equal to highest yielding cultivar based on Fisher's protected LSD (p=0.05).