

PROJECT TITLE: Statewide Spring Wheat Variety Performance - 2008

PROJECT LEADER:

L. Talbert, Spring Wheat breeder, Bozeman

PROJECT PERSONNEL:

S. Lanning, Department of Plant Sciences, Bozeman

D.M. Wichman, CARC, Moccasin

J.L.A. Eckhoff, EARC, Sidney

G.R. Carlson, NARC, Havre

R.N. Stougaard, NWARC Kalispell

K. Kephart, SARC, Huntley

G.D. Kushnak, WTARC, Conrad

OBJECTIVE: To evaluate new and existing varieties and experimental lines of spring wheat under various growing conditions and environments in Montana.

RESULTS: The 2008 Advanced Spring Wheat yield trial was grown at two irrigated and seven dryland sites across Montana. Irrigated sites were at Sidney and Bozeman. Dryland sites were at Havre, Sidney, Moccasin, Huntley, Conrad, Bozeman and Kalispell. The Bozeman site was not harvested because of severe hail damage. Replicated multiple-row plots were established at all locations using standard research techniques. Summaries of yield, test weight, protein content, heading date, and plant height at maturity are shown in Tables 1, 2, 3, 4, and 5, respectively. A summary of averaged data across sites is shown in Table 6.

Highest yielding varieties at individual sites were MT0744 at **Havre**, MT0747 at **Sidney dryland**, PF906407 at **Sidney irrigated**, MT0747 at **Moccasin**, MT0751 at **Huntley**, Vida at **Conrad**, and MT0415 at **Kalispell**. Highest yielding line on a statewide basis was MT0744 (Table 1).

The entry with the highest test weight statewide was MT0713 (Table 2). The entry with the highest protein statewide was MT0713 (Table 3). Earliest heading entry was MT0770, while latest heading entry was Thatcher (Table 4). Shortest entry was Jedd, while tallest entry was Thatcher (Table 5). An overall summary for the advanced spring wheat nursery grown across Montana is shown in Table 6.

SUMMARY: Highest yielding varieties at individual sites were MT0744 at Havre, MT0747 at Sidney dryland, PF906407 at Sidney irrigated, MT0747 at Moccasin, MT0751 at Huntley, Vida at Conrad, and MT0415 at Kalispell. Highest yielding line on a statewide basis was MT0744.

FUTURE PLANS: New and existing varieties and experimental lines will continue to be evaluated at Bozeman and the Research Centers in Montana, so that breeders can release improved varieties and producers can have information on varieties best adapted to conditions in their areas.

Table 1. 2008 yield (bu/ac) summary for the advanced spring wheat nursery grown across Montana.

Line or variety	Havre, dryland	Sidney, dryland	Conrad, dryland	Moccasin, dryland	Huntley, dryland	Kalispell, dryland	Sidney irrigated	ave	BYX	RSQ
Thatcher	36.3	26.4	34.3	23.6	50.4	23.6	76.9	38.8	0.83	0.96
Fortuna	44.9	30.2	44.5	28.8	51.4	24.4	78.8	43.3	0.76	0.88
McNeal	47.4	34.0	39.0	28.3	65.9	35.2	107.1*	51.0	1.20	0.99
Reeder	51.3	36.5	36.8	28.7	69.0*	64.0*	90.8	53.9*	0.88	0.83
Outlook	48.7	34.2	41.2	30.3*	69.6*	23.0	103.8*	50.1	1.18	0.93
Choteau	43.4	31.5	40.7	23.1	59.5	23.7	95.6*	45.4	1.09	0.95
Vida	53.4	34.2	<u>53.4</u>	27.2	67.8*	24.8	93.4	50.6	1.00	0.86
Hank	48.0	40.0*	34.7	27.6	64.6	46.1	101.5*	51.8*	1.08	0.98
Conan	45.9	36.3	49.1*	25.0	58.4	23.1	88.1	46.5	0.92	0.88
Corbin	46.8	32.6	49.8*	21.9	65.8	41.2	96.2*	50.6	1.05	0.97
Volt	41.3	39.5*	28.5	30.0*	67.7	48.4	99.1*	50.6	1.06	0.93
ONeal	52.1	40.4*	49.8*	27.5	63.8	43.9	103.6*	54.5*	1.06	0.98
Jedd	48.5	37.9	38.1	25.2	65.6	52.7	106.6*	53.5*	1.15	0.97
Norpro	42.4	37.4	38.8	31.6*	67.4	34.9	103.1*	50.8	1.12	0.97
Freyr	44.4	36.6	40.3	24.7	61.7	35.2	104.8*	49.7	1.17	0.99
Kelby	49.6	42.6*	39.5	29.0	55.6	46.9	90.6	50.5	0.84	0.96
Kuntz	42.4	40.7*	31.8	26.5	60.8	29.4	97.1*	47.0	1.06	0.95
MT 0414	46.1	36.8	38.5	28.8	64.5	61.6	99.1*	53.6*	0.99	0.89
MT 0415	46.7	38.4*	34.6	28.2	61.5	<u>72.8</u>	92.3	53.5*	0.86	0.72
MT 0515	47.3	37.0	49.2*	31.6*	67.1	48.0	97.6*	54.0*	0.96	0.98
MT 0605	48.2	40.9*	39.7	28.0	64.4	50.9	100.8*	53.3*	1.03	0.98
MT 0613	46.5	35.7	44.1	26.9	63.9	34.5	80.0	47.4	0.79	0.95
MT 0614	45.0	35.0	44.7	26.5	55.6	32.5	91.7	47.3	0.94	0.97
MT 0631	42.7	29.4	40.9	23.0	59.2	36.8	84.1	45.1	0.90	0.99
MT 0640	44.6	37.9	38.4	30.2*	62.5	27.8	95.9*	48.2	1.02	0.95
MT 0657	47.9	39.9*	41.4	30.2*	74.4*	57.0	102.2*	56.1*	1.06	0.95
MT 0658	45.6	37.1	33.9	29.2	60.5	42.6	98.0*	49.6	1.02	0.98
MT 0664	45.4	37.9	34.7	26.8	64.4	52.9	100.8*	51.8*	1.06	0.95
MT 0669	45.7	40.8*	40.8	34.2*	65.4	37.2	84.6	49.8	0.79	0.96
MT 0674	47.2	37.0	41.0	27.5	62.8	32.1	91.5	48.4	0.96	0.98
MT 0707	42.2	28.7	37.2	27.9	67.3	22.1	99.4*	46.4	1.17	0.94
MT 0708	43.8	36.3	41.5	24.0	61.6	27.4	101.5*	48.0	1.14	0.96
MT 0713	50.1	35.6	42.1	26.2	64.1	28.1	93.3	48.5	1.01	0.95
MT 0715	45.0	42.0*	44.9	23.6	60.7	44.6	90.9	50.2	0.90	0.97
MT 0716	46.2	30.6	45.5	22.2	63.4	51.9	90.1	50.0	0.94	0.93
MT 0718	50.1	40.2*	51.3*	26.9	63.6	34.4	99.6*	52.3*	1.03	0.95
MT 0722	43.9	33.1	40.6	23.8	59.4	37.7	97.9*	48.1	1.07	1.00
MT 0724	47.8	32.9	48.4*	23.3	58.7	38.6	100.4*	50.0	1.08	0.97
MT 0735	44.5	30.5	36.8	29.3	65.8	54.8	105.2*	52.4*	1.14	0.94
MT 0737	40.6	36.7	34.2	26.8	58.6	38.5	85.1	45.8	0.86	0.98

(continued)

Table 1 (continued). 2008 yield (bu/ac) summary for the advanced spring wheat nursery grown across Montana.

Line or variety	Havre, dryland	Sidney, dryland	Conrad, dryland	Moccasin, dryland	Huntley, dryland	Kalispell, dryland	Sidney irrigated	ave	BYX	RSQ
MT 0744	<u>57.6</u>	43.9*	44.1	33.1*	66.8	56.2	104.9*	<u>58.1</u>	1.01	0.97
MT 0745	50.8	34.7	46.6	31.6*	65.0	50.5	106.0*	55.0*	1.08	0.97
MT 0746	49.8	43.0*	36.0	30.7*	65.6	65.4*	89.0	54.2*	0.80	0.80
MT 0747	52.1	<u>44.1</u>	46.2	<u>35.3</u>	66.3	53.1	102.4*	57.1*	0.96	0.98
MT 0748	49.7	38.6*	46.5	28.6	70.3*	49.3	91.8	53.5*	0.91	0.97
MT 0749	52.4	34.5	44.8	31.3*	67.5	29.1	92.1	50.2	0.96	0.92
MT 0750	50.1	36.8	44.1	26.1	68.3*	54.5	100.2*	54.3*	1.04	0.96
MT 0751	50.1	41.4*	41.3	32.8*	<u>75.6</u>	33.6	92.2	52.4*	0.96	0.93
MT 0755	49.8	39.8*	34.6	29.0	64.0	61.1*	90.9	52.7*	0.87	0.87
MT 0759	46.1	37.2	36.6	22.2	57.2	45.8	93.4	48.3	0.98	0.98
MT 0761	48.1	39.5*	34.7	25.6	59.4	47.9	86.5	48.8	0.85	0.96
MT 0765	45.1	39.2*	33.3	26.9	64.4	34.2	97.2*	48.6	1.06	0.97
MT 0766	43.9	33.9	35.7	27.7	64.2	39.3	88.8	47.6	0.94	0.99
MT 0770	49.3	37.1	42.1	25.6	63.1	49.3	100.0*	52.4*	1.04	0.98
PF906407	51.4	39.0*	42.7	33.1*	68.5*	50.9	<u>107.8</u>	56.2*	1.11	0.99
PF906408	52.0	37.8	40.5	24.0	68.2*	52.1	104.1*	54.1*	1.12	0.97
PF906409	53.1*	40.3*	40.0	27.6	69.4*	45.9	103.6*	54.3*	1.10	0.99
AGRIPRO8	46.0	30.5	35.3	23.5	67.3	57.6	89.2	49.9	0.95	0.88
BZ9M1024	49.4	38.9*	39.8	32.5*	70.1*	37.5	104.4*	53.2*	1.12	0.98
MTHW0471	38.6	38.7*	37.1	25.9	60.5	17.0	100.5*	45.5	1.15	0.90
MTHW0767	44.5	37.0	30.0	29.0	64.6	32.0	95.2*	47.5	1.05	0.96
MTHW0771	50.2	39.4*	51.8*	26.8	66.0	44.0	92.7	53.0*	0.91	0.96
BZ902413	53.1*	38.1	52.3*	24.1	60.6	22.3	94.8*	49.3	1.01	0.86
Lillian	44.2	32.1	41.8	26.9	51.9	28.8	85.9	44.5	0.87	0.95
site mean	47.1	36.8	40.8	27.6	63.7	41.3	95.8	50.5	1.00	1.00
CV (S/mean)	5.71	9.65	7.05	11.59	7.21	16.13	8.86	11.96		
F-value	5.60**	3.49**	8.35**	2.62**	3.01**	10.85**	2.12**	2.48**		
LSD (.05)	4.60	5.74	5.53	5.39	7.79	10.76	14.08	6.35		

Means followed by an asterisk are not significantly different at the .05 level when compared to the highest yielding wheat which is underlined

Table 2. 2008 test weight (lb/bu) summary for the advanced spring wheat nursery grown across Montana.

Line or variety	Havre, dryland	Sidney, dryland	Conrad, dryland	Moccasin, dryland	Huntley, dryland	Kalispell, dryland	Sidney irrigated	ave	BYX	RSQ
Thatcher	54.3	53.0	58.3	55.3	58.1	57.8	62.7	57.1	1.32	0.92
Fortuna	58.8	56.3	60.4	59.5	60.9*	56.7	63.7	59.5	1.00	0.85
McNeal	56.0	54.7	59.9	57.9	58.9	54.4	63.0	57.8	1.24	0.87
Reeder	58.0	55.8	60.2	60.3	56.4	60.6	64.0	59.3	0.90	0.55
Outlook	56.3	53.2	58.5	56.9	59.6	53.7	62.7	57.3	1.32	0.86
Choteau	56.3	55.3	58.1	57.9	60.9*	55.9	63.8	58.3	1.20	0.84
Vida	58.2	55.3	61.4	57.0	56.3	57.3	62.8	58.3	0.99	0.70
Hank	55.5	54.7	59.8	56.4	59.1	58.4	62.8	58.1	1.17	0.94
Conan	58.7	57.0	61.0	58.8	60.5	58.1	63.3	59.6	0.89	0.96
Corbin	57.2	56.5	62.1	57.5	60.8*	60.0	63.3	59.6	1.05	0.86
Volt	59.5	58.5*	61.7	<u>61.3</u>	<u>63.2</u>	58.8	64.5*	61.1*	0.89	0.83
ONeal	57.7	58.0	61.4	59.5	54.6	59.4	63.7	59.2	0.72	0.34
Jedd	58.2	58.7*	61.0	59.2	60.8	61.1	64.7*	60.5*	0.85	0.83
Norpro	55.0	55.5	60.0	60.8	59.0	57.3	63.5	58.7	1.14	0.77
Freyr	57.8	55.7	61.2	57.1	61.1*	57.8	63.4	59.1	1.13	0.91
Kelby	59.9*	57.8	63.0	59.7	63.0*	58.4	64.0	60.8*	0.95	0.82
Kuntz	56.0	56.5	60.7	59.6	61.6*	58.9	63.5	59.6	1.08	0.87
MT 0414	57.7	56.2	61.0	58.2	60.5	61.1	63.4	59.7	0.96	0.83
MT 0415	58.4	56.5	60.2	59.5	59.7	60.7	64.0	59.9*	0.91	0.86
MT 0515	58.2	57.3	61.7	59.9	57.6	60.0	64.5*	59.9*	0.92	0.71
MT 0605	56.4	55.7	59.6	57.6	60.2	56.8	63.5	58.5	1.15	0.96
MT 0613	57.8	55.3	60.7	59.4	60.6	58.7	63.5	59.4	1.08	0.97
MT 0614	58.3	55.2	60.6	58.6	60.2	57.4	62.0	58.9	0.92	0.90
MT 0631	57.0	54.0	59.3	58.4	57.8	55.2	62.7	57.8	1.13	0.86
MT 0640	57.4	55.3	60.7	58.2	60.9*	57.2	63.2	59.0	1.13	0.95
MT 0657	56.0	54.2	59.8	58.9	62.0*	58.6	64.0	59.1	1.35	0.89
MT 0658	58.3	56.2	61.0	59.4	62.7*	59.0	64.7*	60.2*	1.18	0.93
MT 0664	57.3	56.2	61.3	58.4	61.3*	58.8	64.5*	59.7	1.21	0.98
MT 0669	57.8	58.2	61.5	59.2	61.9*	58.4	63.5	60.1*	0.89	0.88
MT 0674	56.7	55.5	58.9	58.2	60.1	57.6	62.2	58.4	0.92	0.95
MT 0707	55.7	53.7	60.0	58.1	60.9*	57.6	63.7	58.5	1.40	0.95
MT 0708	57.7	57.3	61.1	59.1	60.3	56.8	64.0	59.5	1.02	0.88
MT 0713	<u>61.0</u>	<u>59.7</u>	<u>63.3</u>	60.3	61.1*	57.9	<u>65.0</u>	<u>61.2</u>	0.82	0.67
MT 0715	57.2	58.5*	60.2	60.2	56.5	59.7	63.5	59.4	0.64	0.42
MT 0716	56.5	56.5	59.6	58.7	59.3	59.2	63.5	59.1	0.96	0.90
MT 0718	58.0	57.0	61.1	58.4	61.6*	58.4	63.7	59.7	1.00	0.94
MT 0722	58.2	57.2	59.8	57.1	61.8*	58.0	63.3	59.3	0.92	0.80
MT 0724	56.8	56.0	61.2	58.4	61.2*	58.3	62.8	59.2	1.05	0.93
MT 0735	56.6	53.5	59.8	55.8	60.5	58.7	62.4	58.2	1.20	0.85
MT 0737	55.0	55.3	58.1	55.2	59.2	57.3	62.3	57.5	1.06	0.85

(continued)

Table 2 (continued). 2008 test weight (lb/bu) summary for the advanced spring wheat nursery grown across Montana.

Line or variety	Havre, dryland	Sidney, dryland	Conrad, dryland	Moccasin, dryland	Huntley, dryland	Kalispell, dryland	Sidney irrigated	ave	BYX	RSQ
MT 0744	60.3*	58.3*	61.5	59.6	54.6	59.5	64.0	59.7	0.60	0.24
MT 0745	59.1	56.3	61.4	59.0	60.7	58.4	63.9	59.8	1.01	0.96
MT 0746	57.1	54.3	59.8	58.3	59.2	59.0	62.5	58.6	1.03	0.92
MT 0747	58.5	55.2	61.0	59.6	58.1	59.9	63.1	59.3	0.93	0.76
MT 0748	57.1	55.2	60.2	58.2	60.9*	59.1	62.2	59.0	0.97	0.90
MT 0749	57.4	53.7	60.3	56.6	61.7*	57.5	61.8	58.4	1.15	0.81
MT 0750	57.9	55.3	60.3	58.8	58.1	58.7	62.5	58.8	0.89	0.88
MT 0751	57.4	54.3	59.9	58.1	60.1	56.3	61.8	58.3	1.03	0.89
MT 0755	57.5	54.7	60.6	59.5	61.9*	60.6	62.5	59.6	1.01	0.75
MT 0759	57.8	56.5	61.1	58.7	59.1	58.9	63.2	59.3	0.92	0.95
MT 0761	57.4	56.0	60.1	57.4	59.5	60.1	62.8	59.0	0.91	0.86
MT 0765	57.9	55.5	59.5	59.3	54.0	55.9	62.0	57.7	0.74	0.39
MT 0766	56.0	54.0	58.8	58.8	59.4	57.6	62.0	58.1	1.04	0.90
MT 0770	59.7	58.0*	62.4	59.1	62.8*	60.6	63.2	60.8*	0.77	0.81
PF906407	56.2	57.0	59.7	57.3	59.6	58.4	62.3	58.6	0.84	0.88
PF906408	56.6	55.3	58.8	57.6	59.0	58.3	62.3	58.3	0.92	0.96
PF906409	57.9	56.3	58.9	57.5	58.7	58.2	62.3	58.6	0.77	0.92
AGRIPRO8	58.8	55.3	63.2	57.8	62.3*	<u>62.1</u>	63.7	60.4*	1.14	0.71
BZ9M1024	57.3	56.5	60.6	59.0	60.9*	59.5	63.7	59.6	1.01	0.96
MTHW0471	59.6	59.2*	60.1	59.6	61.2*	57.7	63.7	60.1*	0.66	0.67
MTHW0767	57.5	56.2	60.9	58.8	61.8*	58.0	64.5*	59.7	1.21	0.96
MTHW0771	59.2	58.2*	62.1	58.4	62.8*	60.8	64.0	60.8*	0.88	0.82
BZ902413	59.0	57.7	61.2	58.6	60.4	56.3	64.0	59.6	0.95	0.77
Lillian	56.0	55.5	58.8	57.8	58.9	55.8	62.2	57.9	0.98	0.93
site mean	57.54	56.05	60.48	58.49	59.97	58.3	63.3	59.2	1.00	1.00
CV (S/mean)	1.24	1.89	1 REP	1 REP	2.48	1.04	0.78	1.97		
F-value	9.22**	6.13**			5.17**	21.54**	7.67**	4.48**		
LSD (.05)	1.22	1.71			2.44	0.98	0.81	1.22		

Means followed by an asterisk are not significantly different at the .05 level when compared to the highest yielding wheat which is underlined

Table 3. 2008 protein content (percent) summary for the advanced spring wheat nursery grown across Montana.

Line or variety	Havre, dryland	Sidney, dryland	Conrad, dryland	Moccasin, dryland	Huntley, dryland	Kalispell, dryland	Sidney irrigated	ave	BYX	RSQ
Thatcher	16.5	16.5	13.1	14.4	14.3	16.7	11.6	14.7	1.00	0.94
Fortuna	15.7	15.9	12.8	14.1	13.0	17.8	11.2	14.4	1.18	0.99
McNeal	15.9	16.0	12.3	14.1	13.0	18.1	12.9	14.6	1.04	0.87
Reeder	15.4	15.6	13.7	13.5	14.2	16.3	11.2	14.3	0.85	0.90
Outlook	14.7	15.9	12.5	14.2	12.8	18.2	11.8	14.3	1.11	0.90
Choteau	16.1	16.6	13.6	15.1	14.5	17.9	11.2	15.0*	1.13	0.96
Vida	14.9	15.3	12.0	14.2	13.4	18.1	11.1	14.1	1.18	0.94
Hank	16.0	15.5	12.4	13.9	12.5	16.6	11.2	14.0	1.07	0.97
Conan	15.3	15.5	13.3	15.4	13.4	17.3	12.2	14.6	0.87	0.91
Corbin	15.6	16.2	12.3	13.7	12.9	16.9	10.0	13.9	1.27	0.97
Volt	15.2	15.0	12.6	12.8	12.3	15.6	10.3	13.4	0.99	0.94
ONeal	15.9	15.3	12.7	14.4	13.6	17.3	11.9	14.4	0.98	0.98
Jedd	16.0	15.3	12.9	12.9	13.0	16.0	12.3	14.1	0.80	0.86
Norpro	15.6	15.0	12.2	14.1	13.6	17.6	10.7	14.1	1.18	0.98
Freyr	15.0	15.2	12.7	14.7	13.0	16.7	10.9	14.0	0.99	0.95
Kelby	15.5	15.7	13.5	14.3	13.9	16.6	12.0	14.5	0.81	0.99
Kuntz	14.8	13.9	11.7	12.3	12.0	16.8	11.0	13.2	1.04	0.92
MT 0414	16.1	15.9	12.8	15.8	15.0	16.6	13.6	15.1*	0.64	0.74
MT 0415	16.2	15.3	13.4	13.7	14.2	17.0	11.6	14.5	0.94	0.95
MT 0515	15.6	15.2	12.3	13.3	14.0	16.1	11.1	13.9	0.93	0.93
MT 0605	15.7	15.0	12.7	14.7	13.8	16.6	11.1	14.2	0.96	0.95
MT 0613	15.9	16.0	13.1	13.8	13.6	17.3	11.5	14.5	1.05	0.99
MT 0614	16.4	16.3	13.2	15.0	13.6	17.9	11.9	14.9*	1.11	0.99
MT 0631	15.8	16.9	13.8	15.1	14.3	16.4	12.4	15.0*	0.78	0.88
MT 0640	14.7	15.9	12.7	13.9	13.7	17.3	11.2	14.2	1.03	0.95
MT 0657	14.7	15.3	13.1	13.0	13.1	16.3	10.7	13.7	0.95	0.95
MT 0658	15.7	15.4	12.3	13.4	12.5	16.8	10.3	13.8	1.20	0.99
MT 0664	15.3	15.9	12.4	14.9	12.9	17.1	11.6	14.3	1.03	0.94
MT 0669	14.8	14.8	11.8	12.9	13.1	17.3	11.5	13.7	1.03	0.93
MT 0674	16.4	16.1	13.6	13.4	13.5	18.3	11.1	14.6	1.25	0.96
MT 0707	16.3	<u>17.2</u>	13.2	13.6	13.3	18.5	11.9	14.9*	1.25	0.93
MT 0708	15.4	15.6	13.2	13.6	12.9	19.1	11.5	14.5	1.25	0.91
MT 0713	<u>16.6</u>	16.0	<u>14.1</u>	15.5	15.0	18.0	13.0	<u>15.5</u>	0.85	0.97
MT 0715	16.2	15.1	13.5	14.0	14.0	16.7	11.5	14.4	0.90	0.95
MT 0716	16.5	16.2	13.8	14.5	13.4	16.4	11.0	14.5	1.01	0.90
MT 0718	15.0	14.6	12.4	14.3	12.7	16.9	11.7	13.9	0.92	0.94
MT 0722	16.0	15.8	12.6	<u>16.3</u>	13.3	18.1	11.3	14.8	1.19	0.88
MT 0724	15.8	15.8	13.0	13.8	13.5	17.3	11.5	14.4	1.05	1.00
MT 0735	15.9	16.7	12.9	15.4	13.1	15.8	12.1	14.6	0.84	0.78
MT 0737	15.8	15.8	13.1	14.5	13.5	17.9	11.2	14.5	1.15	0.99

(continued)

Table 3 (continued). 2008 protein content (percent) summary for the advanced spring wheat nursery grown across Montana.

Line or variety	Havre, dryland	Sidney, dryland	Conrad, dryland	Moccasin, dryland	Huntley, dryland	Kalispell, dryland	Sidney irrigated	ave	BYX	RSQ
MT 0744	15.8	15.1	13.3	15.0	14.3	16.6	11.7	14.5	0.83	0.93
MT 0745	15.7	16.4	13.4	13.8	13.3	17.1	13.5	14.7	0.77	0.83
MT 0746	16.1	16.0	14.6	14.2	15.1	16.9	12.4	15.0*	0.74	0.88
MT 0747	16.0	15.0	12.7	14.2	14.5	16.9	11.3	14.4	0.96	0.92
MT 0748	15.3	15.1	13.4	13.6	14.4	17.4	11.4	14.4	0.94	0.92
MT 0749	15.8	16.0	13.8	15.4	12.7	17.8	11.5	14.7	1.08	0.90
MT 0750	15.8	15.6	13.4	13.4	13.6	17.2	11.9	14.4	0.94	0.96
MT 0751	15.5	14.9	13.6	13.7	14.9	18.1	11.0	14.5	1.05	0.85
MT 0755	15.8	15.4	12.7	12.8	13.4	17.1	11.3	14.1	1.06	0.95
MT 0759	16.2	15.4	13.3	13.6	14.9	16.8	11.3	14.5	0.94	0.88
MT 0761	17.0	15.7	13.9	15.2	14.2	17.8	12.4	15.2*	0.96	0.96
MT 0765	16.3	15.2	12.9	14.0	14.8	17.9	12.0	14.7	1.01	0.91
MT 0766	16.2	16.4	13.6	12.6	13.4	17.3	11.9	14.5	1.03	0.86
MT 0770	15.2	15.4	12.6	13.9	12.9	16.7	11.8	14.1	0.92	0.98
PF906407	15.7	14.7	13.1	14.8	12.6	16.4	12.0	14.2	0.82	0.89
PF906408	16.0	15.6	12.9	13.4	12.9	15.5	11.1	13.9	0.91	0.90
PF906409	16.5	15.4	13.1	14.4	12.9	16.6	11.2	14.3	1.03	0.94
AGRIPRO8	16.1	16.2	13.0	14.8	14.2	16.9	11.6	14.7	0.99	0.97
BZ9M1024	16.0	15.0	12.7	13.7	12.8	16.5	11.3	14.0	0.99	0.97
MTHW0471	15.7	15.3	12.4	13.7	13.4	17.9	11.3	14.2	1.16	0.98
MTHW0767	15.2	15.6	13.1	15.3	12.5	17.2	10.7	14.2	1.11	0.90
MTHW0771	14.5	15.6	12.6	15.3	12.1	16.5	11.0	13.9	0.98	0.82
BZ902413	15.4	15.1	12.7	15.0	13.2	17.0	11.7	14.3	0.94	0.95
Lillian	16.5	16.6	14.1	13.7	<u>15.6</u>	<u>18.8</u>	12.5	15.4*	1.04	0.86
site mean	15.74	15.62	13.00	14.16	13.53	17.14	11.56	14.4	1.00	1.00
CV (S/mean)	1 REP	1 REP	1 REP	1 REP	1 REP	1 REP	1 REP	4.1		
F-value								3.72**		
LSD (.05)								0.62		

Means followed by an asterisk are not significantly different at the .05 level when compared to the highest yielding wheat which is underlined

Table 4. 2008 heading date (days from January 1) summary for the advanced spring wheat nursery grown across Montana.

Line or variety	Havre, dryland	Sidney, dryland	Conrad, dryland	Moccasin, dryland	Huntley, dryland	Kalispell, dryland	Sidney irrigated	ave	BYX	RSQ
Thatcher	183.7	174.3	192.0	189.1	175.6	192.0	179.8	183.8	1.04	1.00
Fortuna	181.2	172.3	188.0	186.3	172.6	187.0*	176.3	180.5	0.95	1.00
McNeal	183.8	173.0	189.0	186.6	175.0	188.3	176.0	181.7	0.94	0.98
Reeder	179.5	171.3	189.0	186.6	172.8	187.7	175.6	180.4	1.03	1.00
Outlook	183.7	174.3	190.0	187.9	175.0	190.3	177.4	182.7	0.98	1.00
Choteau	180.1	172.3	187.0	185.9	173.2	186.7*	175.6	180.1	0.90	1.00
Vida	183.3	172.7	189.0	187.6	174.1	189.3	177.2	181.9	0.99	0.99
Hank	179.3	170.3	188.0	184.3	172.7	187.3*	174.5	179.5	1.00	0.99
Conan	180.2	171.0	189.0	186.0	171.4	188.3	175.8	180.2	1.07	0.99
Corbin	179.5	170.3	188.0	185.5	171.6	187.0*	174.7	179.5	1.04	1.00
Volt	182.4	173.7	192.0	187.5	172.3	192.7	179.4	182.8	1.13	0.96
ONeal	182.8	172.0	189.0	186.7	174.4	187.7	176.6	181.3	0.96	0.99
Jedd	179.3	169.3	187.0	184.6	171.5	187.0*	173.9	179.0	1.04	1.00
Norpro	182.8	172.0	189.0	186.8	174.1	188.3	175.8	181.3	1.00	1.00
Freyr	181.7	171.7	188.0	186.0	173.0	188.0	175.1	180.5	0.99	0.99
Kelby	179.2	170.0	188.0	185.7	170.3	186.7*	174.2	179.1	1.08	0.99
Kuntz	184.2	172.3	190.0	186.8	173.1	189.0	176.2	181.7	1.05	0.99
MT 0414	180.3	171.3	189.0	186.1	172.7	188.3	175.1	180.4	1.05	1.00
MT 0415	179.2	172.7	189.0	186.8	173.3	188.0	176.2	180.7	0.98	0.99
MT 0515	182.7	172.7	190.0	186.5	173.1	188.7	176.4	181.4	1.02	0.99
MT 0605	182.2	172.7	190.0	187.3	173.9	189.0	176.8	181.7	1.02	1.00
MT 0613	182.6	172.3	189.0	187.0	175.1	188.7	175.7	181.5	0.97	0.98
MT 0614	180.9	171.7	187.0	187.3	172.8	188.0	174.9	180.4	1.00	0.99
MT 0631	182.0	172.0	188.0	186.5	172.6	188.0	176.0	180.7	0.99	1.00
MT 0640	178.9	171.7	186.0	185.9	171.7	186.0	174.9	179.3	0.93	0.99
MT 0657	180.7	171.3	189.0	185.2	172.2	187.7	175.5	180.2	1.02	1.00
MT 0658	182.4	171.3	189.0	186.5	171.8	187.0*	174.5	180.4	1.06	0.99
MT 0664	180.6	172.0	188.0	185.6	172.7	187.7	176.5	180.5	0.95	0.99
MT 0669	182.8	172.3	189.0	187.6	174.1	189.3	176.9	181.7	1.01	1.00
MT 0674	178.8	170.7	186.0	184.8	171.5	187.0*	174.4	179.0	0.97	0.99
MT 0707	179.1	171.0	188.0	185.1	171.9	188.0	174.6	179.7	1.03	0.99
MT 0708	183.5	173.0	189.0	186.4	173.1	188.3	175.8	181.3	0.99	0.99
MT 0713	181.3	173.0	190.0	187.3	174.9	188.0	177.0	181.6	0.96	1.00
MT 0715	183.1	172.3	189.0	187.0	174.7	187.3*	176.5	181.4	0.94	0.98
MT 0716	182.5	172.7	189.0	187.0	174.8	188.7	176.6	181.6	0.96	1.00
MT 0718	179.8	171.3	189.0	186.4	172.4	188.0	176.3	180.4	1.03	0.99
MT 0722	182.0	172.7	190.0	186.4	173.8	189.3	176.2	181.5	1.02	1.00
MT 0724	178.3	169.7	186.0	184.0	171.3	186.3*	173.7	178.5	0.98	0.99
MT 0735	177.8*	169.0*	186.0	184.1	170.8	186.0*	173.0*	178.1	1.02	1.00
MT 0737	182.1	171.7	189.0	186.5	173.0	186.7*	176.4	180.8	0.98	0.99

(continued)

Table 4 (continued). 2008 heading date (days from January 1) summary for the advanced spring wheat nursery grown across Montana.

Line or variety	Havre, dryland	Sidney, dryland	Conrad, dryland	Moccasin, dryland	Huntley, dryland	Kalispell, dryland	Sidney irrigated	ave	BYX	RSQ
MT 0744	181.1	172.7	189.0	185.8	172.0	187.3*	176.7	180.7	0.97	0.99
MT 0745	179.0	171.7	187.0	185.1	171.5	186.7*	175.5	179.5	0.95	0.99
MT 0746	178.9	170.7	186.0	184.7	170.4	186.0*	174.4	178.7	0.97	0.99
MT 0747	178.5	170.7	189.0	184.8	170.6	186.7*	174.8	179.3	1.06	0.99
MT 0748	176.8*	169.7	184.0	183.3	169.3	186.0*	173.0*	177.4*	0.97	0.98
MT 0749	180.8	172.3	187.0	186.3	172.3	187.3*	174.8	180.1	0.96	0.99
MT 0750	180.4	172.7	188.0	186.0	174.0	188.7	175.8	180.8	0.95	1.00
MT 0751	179.5	170.7	187.0	185.7	172.4	187.3*	175.1	179.7	0.99	1.00
MT 0755	177.7*	170.7	186.0	184.2	171.7	186.0*	172.9*	178.5	0.95	0.98
MT 0759	179.5	171.0	188.0	185.9	172.5	186.3*	174.5	179.7	0.99	0.99
MT 0761	178.7	170.3	187.0	186.2	172.1	186.7*	174.4	179.3	1.01	0.99
MT 0765	181.4	171.3	189.0	186.4	173.1	187.3*	175.1	180.5	1.02	1.00
MT 0766	181.9	171.3	188.0	185.9	172.5	187.7	175.5	180.4	1.00	1.00
MT 0770	<u>176.1</u>	<u>168.0</u>	186.0	<u>182.1</u>	<u>168.0</u>	<u>186.0</u>	<u>171.8</u>	<u>176.9</u>	1.10	0.99
PF906407	180.9	170.0	187.0	185.2	173.5	187.0*	174.9	179.8	0.97	0.99
PF906408	182.2	170.7	187.0	185.8	173.2	188.0	174.8	180.2	0.99	0.98
PF906409	181.6	170.7	187.0	184.5	172.8	187.7	174.4	179.8	0.98	0.99
AGRIPRO8	177.8*	170.0	186.0	185.0	170.6	186.0*	174.0	178.5	1.00	1.00
BZ9M1024	180.0	170.3	189.0	186.5	172.1	188.3	175.1	180.2	1.10	1.00
MTHW0471	183.5	173.3	190.0	188.0	176.0	191.3	177.4	182.8	1.01	0.99
MTHW0767	180.5	170.0	187.0	185.3	171.6	186.7*	174.2	179.3	1.02	1.00
MTHW0771	176.5	168.0*	<u>184.0</u>	182.8*	168.4*	186.0*	172.6*	176.9*	1.04	0.99
BZ902413	178.4	171.0	188.0	184.4	172.1	187.3*	175.0	179.5	0.99	0.99
Lillian	184.3	174.0	191.0	188.2	176.5	190.7	177.8	183.2	0.98	0.99
site mean	180.71	171.49	188.17	185.96	172.66	187.8	175.5	180.3	1.00	1.00
CV (S/mean)	0.56	0.36	1 REP	0.28	0.32	0.44	0.49	0.41		
F-value	10.81**	14.19**		17.08**	23.04**	8.95	7.44**	25.61**		
LSD (.05)	1.71	1.01		0.88	0.94	1.33	1.45	0.77		

Means followed by an asterisk are not significantly different at the .05 level when compared to the highest yielding wheat which is underlined

Table 5. 2008 plant height (inches) summary for the advanced spring wheat nursery grown across Montana.

Line or variety	Havre, dryland	Sidney, dryland	Conrad, dryland	Moccasin, dryland	Huntley, dryland	Kalispell, dryland	Sidney irrigated	ave	BYX	RSQ
Thatcher	<u>36.7</u>	<u>30.5</u>	<u>39.0</u>	<u>30.7</u>	<u>47.4</u>	<u>44.1</u>	<u>44.4</u>	<u>39.0</u>	1.79	0.92
Fortuna	36.1*	28.6	35.0	29.6*	40.9	42.0*	41.1	36.2	1.49	0.95
McNeal	31.5	26.4	30.0	25.8	34.1	32.4	34.1	30.6	0.93	0.97
Reeder	32.2	25.7	30.0	24.7	34.5	36.4	33.8	31.0	1.20	0.95
Outlook	29.2	26.4	31.0	26.4	35.7	33.7	34.0	30.9	0.98	0.89
Choteau	31.0	24.4	29.0	22.9	31.2	32.3	31.6	28.9	1.00	0.92
Vida	30.5	25.7	29.0	23.9	33.2	32.6	34.0	29.8	1.05	0.97
Hank	29.0	25.6	27.0	23.6	29.9	28.9	30.3	27.8	0.66	0.92
Conan	29.4	25.6	27.0	23.1	31.5	29.9	31.4	28.3	0.85	0.95
Corbin	29.5	25.5	30.0	23.8	34.2	33.9	31.2	29.7	1.04	0.92
Volt	29.9	26.3	29.0	25.2	31.8	32.3	31.0	29.3	0.74	0.96
ONeal	32.3	26.9	30.0	25.5	34.2	32.8	35.3	31.0	0.99	0.95
Jedd	28.9	23.5	25.0	22.6	28.8	26.3	27.0	26.0	0.59	0.75
Norpro	27.8	25.3	27.0	24.7	31.4	31.6	32.1	28.6	0.83	0.91
Freyr	32.4	28.2	31.0	27.1	35.8	34.1	35.1	32.0	0.93	0.99
Kelby	28.5	25.3	26.0	23.5	28.4	28.9	30.3	27.3	0.61	0.85
Kuntz	29.1	25.7	26.0	24.8	30.3	28.4	30.6	27.8	0.60	0.86
MT 0414	34.1*	25.9	30.0	25.1	36.9	34.0	35.2	31.6	1.28	0.97
MT 0415	33.5	26.9	30.0	25.3	35.5	37.1	35.5	32.0	1.26	0.96
MT 0515	32.5	25.3	31.0	25.2	33.3	33.3	33.6	30.6	1.00	0.93
MT 0605	29.2	25.2	29.0	23.4	32.6	31.0	32.0	28.9	0.94	0.96
MT 0613	29.2	26.1	30.0	23.4	32.9	34.4	29.8	29.4	0.93	0.80
MT 0614	32.4	26.5	31.0	24.6	35.2	33.1	36.6	31.3	1.18	0.94
MT 0631	29.9	24.6	28.0	23.7	33.0	35.2	33.0	29.6	1.18	0.94
MT 0640	31.6	27.0	31.0	25.5	34.9	34.0	34.5	31.2	1.02	0.98
MT 0657	31.9	26.0	28.0	24.8	33.1	31.8	31.3	29.5	0.88	0.95
MT 0658	30.2	26.5	28.0	26.0	32.1	30.6	32.0	29.3	0.69	0.96
MT 0664	31.4	26.4	30.0	26.7	34.6	33.2	33.6	30.8	0.91	0.99
MT 0669	29.2	26.0	29.0	26.4	33.1	32.3	31.5	29.6	0.76	0.95
MT 0674	32.0	27.6	31.0	26.0	35.5	32.4	34.8	31.3	0.94	0.94
MT 0707	32.5	25.9	30.0	26.0	34.2	31.8	32.8	30.4	0.90	0.94
MT 0708	31.6	26.0	30.0	24.9	35.9	36.5	34.3	31.3	1.26	0.97
MT 0713	32.3	26.3	31.0	26.3	36.2	35.4	34.2	31.7	1.12	0.98
MT 0715	29.5	25.5	28.0	24.1	33.7	32.0	31.3	29.2	0.97	0.98
MT 0716	31.2	25.6	29.0	24.1	32.9	31.6	31.4	29.4	0.91	0.96
MT 0718	28.1	23.9	28.0	22.4	30.9	29.7	29.1	27.4	0.84	0.94
MT 0722	34.2*	27.2	32.0	26.2	39.7	39.1	36.8	33.6	1.49	0.98
MT 0724	31.0	24.8	26.0	24.4	33.3	31.5	30.7	28.8	0.96	0.91
MT 0735	34.0	28.4	32.0	28.4	39.0	35.6	35.7	33.3	1.08	0.96
MT 0737	31.3	27.3	31.0	24.7	37.8	35.6	33.6	31.6	1.23	0.94

(continued)

Table 5 (continued). 2008 plant height (inches) summary for the advanced spring wheat nursery grown across Montana.

Line or variety	Havre, dryland	Sidney, dryland	Conrad, dryland	Moccasin, dryland	Huntley, dryland	Kalispell, dryland	Sidney irrigated	ave	BYX	RSQ
MT 0744	34.1	27.2	32.0	26.7	35.2	36.2	35.2	32.4	1.07	0.96
MT 0745	29.7	24.5	27.0	25.7	31.2	33.3	32.5	29.1	0.90	0.88
MT 0746	35.8*	28.2	32.0	28.4	36.4	36.5	34.1	33.1	0.95	0.90
MT 0747	32.4	25.5	28.0	26.2	32.7	30.7	33.3	29.8	0.84	0.86
MT 0748	29.9	25.9	29.0	25.4	34.3	32.0	32.5	29.9	0.92	0.98
MT 0749	30.4	26.1	28.0	26.1	33.9	33.2	33.1	30.1	0.92	0.96
MT 0750	32.9	26.6	31.0	26.1	36.4	36.5	36.4	32.3	1.25	0.99
MT 0751	30.8	25.7	28.0	26.0	35.5	31.9	32.2	30.0	0.96	0.92
MT 0755	31.3	27.0	28.0	26.0	33.7	32.0	31.6	29.9	0.79	0.95
MT 0759	31.0	25.3	27.0	23.4	33.7	32.0	32.8	29.3	1.10	0.97
MT 0761	32.1	26.9	29.0	25.9	34.0	32.4	32.2	30.4	0.85	0.97
MT 0765	31.4	26.9	30.0	26.3	35.7	36.6	35.7	31.8	1.16	0.95
MT 0766	31.3	25.3	29.0	24.6	33.8	34.7	32.5	30.2	1.09	0.97
MT 0770	33.3	26.8	32.0	26.7	37.0	33.1	33.5	31.8	1.00	0.91
PF906407	29.4	24.2	28.0	22.4	29.5	29.1	30.8	27.6	0.81	0.88
PF906408	29.6	24.4	25.0	20.8	29.7	28.6	28.6	26.7	0.86	0.86
PF906409	28.7	24.9	27.0	23.0	30.2	30.3	29.8	27.7	0.77	0.97
AGRIPRO8	32.7	25.5	27.0	26.4	37.8	33.7	32.6	30.8	1.17	0.85
BZ9M1024	30.2	25.2	28.0	25.4	32.5	30.7	31.8	29.1	0.81	0.98
MTHW0471	32.1	27.3	33.0	27.2	40.2	37.7	38.9	33.8	1.43	0.93
MTHW0767	30.5	26.4	28.0	26.8	34.3	33.5	33.5	30.4	0.91	0.93
MTHW0771	26.8	24.4	26.0	23.3	31.0	29.3	29.1	27.1	0.76	0.96
BZ902413	31.6	26.4	29.0	23.5	34.0	32.4	33.1	30.0	1.06	0.97
Lillian	35.0*	28.0	33.0	26.9	41.4	37.7	41.2	34.7	1.59	0.96
site mean	31.23	26.10	29.34	25.23	34.27	33.2	33.2	30.40	1.00	1.00
CV (S/mean)	5.13	3.63	1 REP	5.07	3.80	5.80	3.76	4.15		
F-value	4.48**	5.06**		5.24**	18.64**	7.96**	16.08**	21.49**		
LSD (.05)	2.72	1.53		2.15	2.12	3.11	2.07	1.3		

Means followed by an asterisk are not significantly different at the .05 level when compared to the highest yielding wheat which is underlined

Table 6. 2008 over-all summary for the advanced spring wheat nursery grown across Montana.

	Line or variety	Grain yield (bu/ac)		Test weight (lb/bu)		Grain protein (%)		Heading date (178= June 27)		Plant height (in)	
		AVE	RANK	AVE	RANK	AVE	RANK	AVE	RANK	AVE	RANK
1	Thatcher	38.8	64	57.1	64	14.7	15	183.8	64	<u>39.0</u>	1
2	Fortuna	43.3	63	59.5	25	14.4	30	180.5	38	36.2	2
3	McNeal	51.0	27	57.8	59	14.6	19	181.7	55	30.6	26
4	Reeder	53.9*	12	59.3	29	14.3	39	180.4	34	31.0	22
5	Outlook	50.1	35	57.3	63	14.3	41	182.7	60	30.9	23
6	Choteau	45.4	60	58.3	51	15.0*	5	180.1	25	28.9	52
7	Vida	50.6	29	58.3	52	14.1	51	181.9	59	29.8	37
8	Hank	51.8*	25	58.1	56	14.0	54	179.5	18	27.8	57
9	Conan	46.5	56	59.6	19	14.6	16	180.2	27	28.3	55
10	Corbin	50.6	30	59.6	20	13.9	58	179.5	19	29.7	39
11	Volt	50.6	31	61.1*	2	13.4	63	182.8	62	29.3	45
12	ONeal	54.5*	6	59.2	33	14.4	33	181.3	47	31.0	21
13	Jedd	53.5*	14	60.5*	6	14.1	48	179.0	10	26.0	64
14	Norpro	50.8	28	58.7	43	14.1	50	181.3	48	28.6	54
15	Freyr	49.7	40	59.1	35	14.0	53	180.5	40	32.0	11
16	Kelby	50.5	32	60.8*	3	14.5	20	179.1	11	27.3	61
17	Kuntz	47.0	55	59.6	21	13.2	64	181.7	58	27.8	56
18	MT 0414	53.6*	13	59.7	14	15.1*	4	180.4	31	31.6	16
19	MT 0415	53.5*	15	59.9*	11	14.5	21	180.7	42	32.0	10
20	MT 0515	54.0*	11	59.9*	12	13.9	56	181.4	50	30.6	27
21	MT 0605	53.3*	17	58.5	47	14.2	46	181.7	56	28.9	51
22	MT 0613	47.4	53	59.4	27	14.5	24	181.5	52	29.4	44
23	MT 0614	47.3	54	58.9	41	14.9*	8	180.4	32	31.3	18
24	MT 0631	45.1	61	57.8	60	15.0*	7	180.7	41	29.6	41
25	MT 0640	48.2	48	59.0	38	14.2	44	179.3	15	31.2	20
26	MT 0657	56.1*	4	59.1	36	13.7	62	180.2	30	29.5	42
27	MT 0658	49.6	41	60.2*	8	13.8	60	180.4	36	29.3	46
28	MT 0664	51.8*	26	59.7	15	14.3	37	180.5	39	30.8	24
29	MT 0669	49.8	39	60.1*	9	13.7	61	181.7	57	29.6	40
30	MT 0674	48.4	46	58.4	49	14.6	17	179.0	9	31.3	19
31	MT 0707	46.4	57	58.5	48	14.9*	9	179.7	20	30.4	28
32	MT 0708	48.0	50	59.5	26	14.5	23	181.3	46	31.3	17
33	MT 0713	48.5	45	<u>61.2</u>	1	<u>15.5</u>	1	181.6	53	31.7	14
34	MT 0715	50.2	33	59.4	28	14.4	31	181.4	49	29.2	48
35	MT 0716	50.0	36	59.1	37	14.5	26	181.6	54	29.4	43
36	MT 0718	52.3*	24	59.7	16	13.9	57	180.4	35	27.4	60
37	MT 0722	48.1	49	59.3	30	14.8	10	181.5	51	33.6	5
38	MT 0724	50.0	37	59.2	34	14.4	34	178.5	6	28.8	53
39	MT 0735	52.4*	21	58.2	55	14.6	18	178.1	4	33.3	6
40	MT 0737	45.8	58	57.5	62	14.5	29	180.8	44	31.6	15

(continued)

Table 6 (continued). 2008 over-all summary for the advanced spring wheat nursery grown across Montana.

Line or variety		Grain yield (bu/ac)		Test weight (lb/bu)		Grain protein (%)		Heading date (178= June 27)		Plant height (in)	
		AVE	RANK	AVE	RANK	AVE	RANK	AVE	RANK	AVE	RANK
41	MT 0744	<u>58.1</u>	1	59.7	17	14.5	22	180.7	43	32.4	8
42	MT 0745	55.0*	5	59.8	13	14.7	12	179.5	16	29.1	50
43	MT 0746	54.2*	9	58.6	44	15.0*	6	178.7	8	33.1	7
44	MT 0747	57.1*	2	59.3	31	14.4	32	179.3	13	29.8	38
45	MT 0748	53.5*	16	59.0	39	14.4	35	177.4*	3	29.9	35
46	MT 0749	50.2	34	58.4	50	14.7	13	180.1	26	30.1	32
47	MT 0750	54.3*	7	58.8	42	14.4	36	180.8	45	32.3	9
48	MT 0751	52.4*	22	58.3	53	14.5	27	179.7	22	30.0	33
49	MT 0755	52.7*	20	59.6	22	14.1	49	178.5	7	29.9	36
50	MT 0759	48.3	47	59.3	32	14.5	25	179.7	21	29.3	47
51	MT 0761	48.8	43	59.0	40	15.2*	3	179.3	12	30.4	29
52	MT 0765	48.6	44	57.7	61	14.7	14	180.5	37	31.8	12
53	MT 0766	47.6	51	58.1	57	14.5	28	180.4	33	30.2	31
54	MT 0770	52.4*	23	60.8*	4	14.1	47	<u>176.9</u>	1	31.8	13
55	PF906407	56.2*	3	58.6	45	14.2	45	179.8	24	27.6	59
56	PF906408	54.1*	10	58.3	54	13.9	59	180.2	29	26.7	63
57	PF906409	54.3*	8	58.6	46	14.3	40	179.8	23	27.7	58
58	AGRIPRO8	49.9	38	60.4*	7	14.7	11	178.5	5	30.8	25
59	BZ9M1024	53.2*	18	59.6	23	14.0	52	180.2	28	29.1	49
60	MTHW0471	45.5	59	60.1*	10	14.2	42	182.8	61	33.8	4
61	MTHW0767	47.5	52	59.7	18	14.2	43	179.3	14	30.4	30
62	MTHW0771	53.0*	19	60.8*	5	13.9	55	176.9*	2	27.1	62
63	BZ902413	49.3	42	59.6	24	14.3	38	179.5	17	30.0	34
64	Lillian	44.5	62	57.9	58	15.4*	2	183.2	63	34.7	3
SITE MEAN		50.5		59.2		14.4		180.3		30.40	
C.V. (S/MEAN %)		11.96		1.97		4.1		0.41		4.15	
F-value		2.48**		4.48**		3.72**		25.61**		21.49**	
LSD (.05)		6.35		1.22		0.62		0.77		1.3	

Means followed by an asterisk are not significantly different at the .05 level when compared to the highest yielding wheat which is underlined