

PROJECT TITLE: Statewide Spring Wheat Variety Performance - 2010

PRINCIPAL INVESTIGATION:

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

RESULTS: The 2010 Advanced Spring Wheat yield trial was grown at two irrigated and seven rain fed sites across Montana. Irrigated sites were at Sidney and Bozeman. Rain fed sites were at Havre, Sidney, Moccasin, Huntley, Conrad, Bozeman and Kalispell. Replicated multiple-row plots were established at all locations using standard research techniques. Nurseries from Bozeman were not harvested because of hail damage. 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 BZ92413R at **Havre**, MT0855 at **Sidney dryland**, MT0855 at **Moccasin**, MT0944 at **Huntley**, MT0927 at **Conrad**, Jenna at **Sidney irrigated**, and Volt at **Kalispell**. Highest yielding line on a statewide basis was MT0832 (Table 1).

The entry with the highest test weight on a statewide basis was Volt (Table 2). The entry with the highest protein on a statewide basis was Kelby (Table 3). Earliest heading entry on a statewide basis was AGRIPR13, 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 BZ92413R at Havre, MT0855 at Sidney dryland, MT0855 at Moccasin, MT0944 at Huntley, MT0927 at Conrad, Jenna at Sidney irrigated, and Volt at Kalispell. Highest yielding line on a statewide basis was MT0832.

FUNDING SUMMARY: Expenditure information to be provided by OSP. No other grants support this project.

FUTURE PLANS: These trials will continue in 2011. The Statewide Spring Wheat Performance Trials are not a component of the Research Center's umbrella project. This information is presented here for the convenience of the MWBC and the growers who generate MWBC check-off dollars.

Table 1. 2010 yield (bu/ac) summary for the advanced spring wheat nursery grown across Montana.

Line or variety	Havre, dryland	Sidney, dryland	Sidney irrigated	Kalispell, high rainfall	Moccasin, dryland	Huntley, dryland	Conrad, dryland	average	BYX	RSQ
Volt	49.0	46.0	80.8	<u>113.6</u>	38.4	78.6*	56.5	66.1*	1.46	0.95
Brennan	53.3	42.2	83.3	99.0	40.6	66.4	46.3	61.6*	1.19	0.88
AGRIPR11	43.8	46.9	76.2	98.7	39.1	72.1	65.0	63.1*	1.18	0.95
AGRIPR12	51.7	45.3	76.8	112.6*	38.9	77.0*	69.6	67.4*	1.39	0.96
AGRIPR13	47.2	46.3	86.3	90.5	31.0	68.0	60.4	61.4*	1.19	0.92
Freyr	46.2	43.2	85.4	96.2	37.5	68.7	44.4	60.2	1.24	0.88
Kelby	47.3	39.7	74.0	98.4	45.4	68.9	43.9	59.7	1.13	0.85
Kuntz	44.4	39.5	78.7	94.3	38.0	74.4	59.2	61.2	1.23	0.98
AP604 CL	52.3	45.5	71.3	97.8	33.6	73.0	58.3	61.7*	1.18	0.97
Jenna	49.6	53.4*	<u>94.8</u>	105.8*	39.7	70.2	46.3	65.7*	1.31	0.81
BZ92413R	<u>62.8</u>	41.8	77.1	83.8	41.4	73.5	73.8	64.9*	0.91	0.88
BZ92413W	48.4	41.1	74.2	75.8	41.3	72.0	64.2	59.6	0.84	0.91
BZ93461W	57.0*	37.5	58.7	104.8*	33.6	70.1	75.6	62.5*	1.23	0.80
Hank	56.2*	44.0	65.3	88.9	42.8	80.7*	65.7	63.4*	0.94	0.91
Conan	51.1	38.2	73.3	77.2	41.1	71.8	61.2	59.1	0.87	0.93
Corbin	52.8	47.2	61.6	95.0	37.6	72.8	69.2	62.3*	1.01	0.88
ONeal	59.2*	48.7*	67.6	70.6	43.9	74.5*	59.8	60.6	0.58	0.82
Jedd	52.6	46.1	51.0	71.1	41.4	75.9*	60.2	56.9	0.57	0.62
Thatcher	40.7	36.5	48.6	64.4	33.5	57.0	41.6	46.0	0.61	0.91
Fortuna	48.7	43.2	68.2	86.3	38.1	62.9	55.0	57.5	0.93	0.98
IMICHT79	54.0	42.6	72.1	86.3	41.3	69.5	75.2	63.0*	0.92	0.89
MT 0747	54.7	48.8*	87.1	107.8*	48.2*	69.1	38.7	64.9*	1.20	0.73
MT 0750	56.1*	43.5	61.6	97.7	39.5	71.0	68.7	62.6*	1.03	0.87
MT 0755	58.1*	44.7	75.1	103.9*	40.4	73.9	54.1	64.3*	1.20	0.93
MT 0801	55.5*	44.5	75.6	91.8	44.2	74.0	40.9	60.9	1.00	0.80
MT 0802	52.5	36.8	76.3	92.9	47.3	70.0	55.1	61.6*	1.05	0.93
MT 0814	57.9*	45.6	80.2	79.6	38.8	74.9	71.5	64.1*	0.89	0.87
MT 0827	50.6	48.8*	94.1*	109.0*	44.7	71.4	65.3	69.1*	1.33	0.92
MT 0832	53.6	52.9*	85.3	101.2	42.1	72.4	79.7*	<u>69.6</u>	1.14	0.91
MT 0847	58.0*	45.6	74.4	94.0	43.5	75.9*	53.9	63.6*	1.02	0.95
MT 0852	57.3*	45.4	91.1*	93.4	41.8	68.4	73.5	67.3*	1.10	0.90
MT 0855	59.5*	<u>54.2</u>	82.5	103.1	<u>53.0</u>	77.1*	48.8	68.3*	1.01	0.80
MT 0861	56.5*	52.9*	85.1	91.7	42.1	73.4	69.2	67.3*	0.99	0.96
MT 0869	56.8*	44.6	87.4	99.1	43.5	73.6	74.6	68.5*	1.18	0.96
MT 0909	56.6*	48.6	87.7*	69.7	40.8	64.3	71.0	62.7*	0.70	0.62
MT 0912	56.6*	42.9	63.4	83.4	39.9	72.3	74.8	61.9*	0.84	0.82
MT 0914	53.2	40.9	57.6	87.3	43.3	77.5*	76.7	62.3*	0.88	0.73
MT 0921	52.1	45.5	75.7	83.7	36.0	69.4	82.7*	63.6*	0.95	0.78
MT 0923	54.9	37.0	59.6	87.7	37.4	74.3	83.4*	62.0*	0.98	0.70
MT 0927	57.4*	43.6	77.3	84.5	32.1	68.0	<u>83.9</u>	63.8*	1.00	0.75

(continued)

Table 1 (continued). 2010 yield (bu/ac) summary for the advanced spring wheat nursery grown across Montana.

Line or variety	Havre, dryland	Sidney, dryland	Sidney irrigated	Kalispell, high rainfall	Moccasin, dryland	Huntley, dryland	Conrad, dryland	average	BYX	RSQ
MT 0928	53.1	49.5*	84.1	98.6	42.6	69.4	60.1	65.3*	1.11	0.95
MT 0930	49.5	46.0	78.5	91.2	43.4	70.1	41.1	60.0	1.01	0.81
MT 0940	50.1	46.6	75.4	79.2	44.3	62.3	58.0	59.4	0.75	0.93
MT 0941	52.3	50.4*	71.2	64.3	42.3	74.3	56.4	58.8	0.55	0.69
MT 0943	54.3	51.1*	87.2	93.5	38.5	79.4*	64.4	66.9*	1.13	0.96
MT 0944	50.6	46.1	70.2	90.1	44.9	<u>81.0</u>	56.5	62.8*	0.97	0.92
MT 0950	45.9	44.6	83.7	85.4	46.7*	72.4	34.7	59.0	0.97	0.67
MT 0953	60.5*	40.7	75.8	86.3	41.2	72.7	67.1	63.5*	0.96	0.95
MT 0959	49.6	43.9	73.9	86.9	39.3	71.9	76.8	63.2*	0.99	0.88
MT 0964	62.3*	48.1*	71.6	69.0	48.9	76.0*	64.4	62.9*	0.52	0.72
MT 0965	56.1*	42.3	64.2	62.0	38.2	73.7	50.5	55.3	0.57	0.64
MT 0967	53.2	40.0	71.4	92.6	36.9	67.9	70.9	61.8*	1.08	0.94
MT 0968	52.1	44.7	79.8	100.1	35.1	74.8*	76.6	66.2*	1.27	0.95
MT 0969	61.1*	42.7	78.1	84.0	40.3	72.4	70.6	64.2*	0.92	0.91
MT 0972	58.7*	36.9	71.1	79.0	40.5	78.4*	68.1	61.8*	0.90	0.85
MT 0974	50.9	40.9	66.2	85.8	40.6	69.4	63.9	59.7	0.92	0.97
MT 0975	57.5*	45.1	73.9	100.5	37.5	75.6*	75.1	66.4*	1.18	0.94
MTHW0867	53.6	40.9	50.7	68.3	39.0	75.5*	53.9	54.6	0.60	0.63
Reeder	55.2	47.4*	85.0	103.2	41.2	68.5	57.7	65.5*	1.20	0.93
Mott	51.5	41.5	70.5	83.6	37.9	68.9	42.5	56.6	0.94	0.88
McNeal	48.8	39.4	66.2	84.2	40.8	72.5	58.4	58.6	0.94	0.97
Outlook	56.2*	46.7	87.2	89.0	44.4	74.8*	42.8	63.0*	1.01	0.77
Choteau	54.8	45.6	79.4	95.0	40.2	74.6*	81.2	67.2*	1.11	0.91
Vida	59.3*	53.2*	68.0	99.2	41.5	75.5*	60.7	65.4*	0.99	0.90
site mean	53.5	44.6	74.8	89.7	40.67	72.2	62.0	62.5	1.00	1.00
CV (S/mean)	8.28	8.95	5.70	6.58	9.85	5.32	5.58	12.53		
F-value	3.02**	2.93**	15.80**	11.36**	2.52**	3.50**	35.66**	1.75**		
LSD (.05)	7.44	6.84	7.23	9.97	6.79	6.52	5.84	8.24		

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. 2010 test weight (lb/bu) summary for the advanced spring wheat nursery grown across Montana.

Line or variety	Havre, dryland	Sidney, dryland	Sidney irrigated	Kalispell, high rainfall	Moccasin, dryland	Huntley, dryland	Conrad, dryland	average	BYX	RSQ
Volt	57.9	61.5	60.0	<u>60.7</u>	61.5	63.2*	<u>63.0</u>	<u>61.1</u>	0.94	0.76
Brennan	58.0	61.0	60.0	59.2	60.8	62.9	59.8	60.3*	0.84	0.85
AGRIPR11	56.9	61.5	58.5	58.6	60.6	62.5	60.5	59.9	1.14	0.95
AGRIPR12	56.9	61.0	59.0	59.6	60.6	63.3*	59.4	60.0	1.11	0.90
AGRIPR13	<u>59.4</u>	61.0	<u>61.0</u>	60.6*	61.2	63.5*	60.4	61.0*	0.63	0.70
Freyr	57.4	61.5	59.0	59.8	59.8	62.8	60.5	60.1	1.01	0.96
Kelby	58.2	61.0	59.5	59.4	61.1	62.6	59.6	60.2*	0.82	0.87
Kuntz	56.6	60.0	58.0	59.5	60.2	62.3	60.7	59.6	1.05	0.88
AP604 CL	58.0	61.0	59.5	59.4	59.6	63.6*	59.9	60.2*	0.98	0.88
Jenna	55.6	60.0	59.5	58.3	58.5	61.0	58.8	58.8	0.82	0.65
BZ92413R	59.3*	<u>62.5</u>	59.5	60.1*	59.0	62.4	60.6	60.5*	0.71	0.67
BZ92413W	58.6*	61.5	60.5	59.7	59.7	62.5	60.7	60.5*	0.68	0.77
BZ93461W	57.3	61.0	58.0	59.3	57.9	62.2	60.5	59.5	0.97	0.78
Hank	55.8	59.5	55.5	56.2	57.0	60.5	58.1	57.5	1.09	0.90
Conan	58.3	62.0	60.0	59.4	58.6	61.9	60.4	60.1	0.69	0.61
Corbin	57.1	60.0	57.5	59.3	58.4	62.5	59.5	59.2	1.01	0.88
ONeal	59.0*	60.5	54.5	57.9	59.8	63.4*	62.2	59.6	1.33	0.58
Jedd	57.5	61.0	56.0	57.2	59.8	63.0	59.3	59.1	1.36	0.88
Thatcher	56.0	59.5	56.0	58.4	58.8	61.4	58.7	58.4	1.10	0.94
Fortuna	57.8	61.0	58.5	59.1	60.2	61.9	59.8	59.7	0.85	0.98
IMICHT79	56.8	60.5	58.0	58.4	61.3	62.5	60.5	59.7	1.13	0.88
MT 0747	56.7	59.5	57.5	59.3	60.5	61.8	57.7	59.0	0.91	0.71
MT 0750	56.6	60.0	56.0	58.6	59.6	60.9	59.6	58.8	1.01	0.85
MT 0755	57.3	59.5	57.5	58.9	60.4	61.7	59.0	59.2	0.86	0.86
MT 0801	57.3	61.0	58.0	57.9	58.4	62.1	58.4	59.0	0.99	0.84
MT 0802	58.6*	60.0	58.0	59.6	60.5	62.2	60.9	60.0	0.77	0.82
MT 0814	57.7	61.5	58.5	58.5	58.5	63.1*	59.3	59.6	1.08	0.85
MT 0827	57.1	62.5	60.5	59.9	62.3	62.7	60.2	60.7*	0.99	0.70
MT 0832	56.8	60.0	58.5	58.9	57.8	61.8	58.6	58.9	0.83	0.76
MT 0847	58.1	61.5	58.5	58.2	60.1	62.3	59.1	59.7	0.93	0.87
MT 0852	57.4	62.0	59.5	59.4	60.4	62.8	60.5	60.3*	1.02	0.93
MT 0855	56.7	59.0	56.0	58.0	58.4	61.1	58.7	58.3	0.94	0.91
MT 0861	56.2	60.0	57.0	57.9	59.2	61.8	59.9	58.9	1.14	0.97
MT 0869	56.7	60.0	59.5	59.0	61.1	62.3	59.6	59.7	0.91	0.75
MT 0909	57.4	61.5	59.5	58.9	60.7	62.5	62.2	60.4*	1.00	0.80
MT 0912	56.4	61.0	57.5	59.4	59.9	61.9	59.6	59.4	1.10	0.94
MT 0914	56.1	60.5	55.6	56.7	60.4	61.3	57.8	58.3	1.27	0.82
MT 0921	55.7	60.5	58.0	58.1	59.7	61.7	59.8	59.1	1.14	0.93
MT 0923	56.6	61.0	56.5	59.4	60.1	62.1	59.9	59.4	1.21	0.91
MT 0927	54.4	59.5	56.5	57.2	57.2	60.0	58.3	57.6	1.07	0.89

(continued)

Table 2 (continued). 2010 test weight (lb/bu) summary for the advanced spring wheat nursery grown across Montana.

Line or variety	Havre, dryland	Sidney, dryland	Sidney irrigated	Kalispell, high rainfall	Moccasin, dryland	Huntley, dryland	Conrad, dryland	average	BYX	RSQ
MT 0928	56.3	60.0	58.5	58.6	59.1	61.2	59.3	59.0	0.86	0.90
MT 0930	55.3	59.0	56.0	57.3	58.6	60.1	57.1	57.6	0.98	0.92
MT 0940	58.5*	62.5	59.0	59.1	60.5	63.2*	60.2	60.4*	1.04	0.92
MT 0941	56.5	60.0	55.0	55.7	57.5	60.8	59.7	57.9	1.19	0.76
MT 0943	53.1	58.0	56.0	56.4	55.2	59.4	58.7	56.7	1.10	0.70
MT 0944	57.0	60.5	57.0	59.0	60.0	62.2	60.1	59.4	1.11	0.95
MT 0950	56.1	59.5	56.5	56.7	58.1	61.5	59.0	58.2	1.15	0.96
MT 0953	57.5	60.5	57.5	59.1	58.9	61.8	60.5	59.4	0.92	0.90
MT 0959	58.5*	62.0	59.5	60.6*	<u>62.4</u>	<u>63.7</u>	60.3	61.0*	0.99	0.87
MT 0964	57.0	60.5	54.5	56.6	59.4	61.3	59.5	58.4	1.26	0.76
MT 0965	58.7*	60.0	56.0	57.4	59.9	63.2*	61.6	59.5	1.18	0.66
MT 0967	57.8	60.0	59.5	58.9	61.7	62.5	59.5	60.0	0.81	0.70
MT 0968	58.6*	61.0	59.0	60.4	61.4	62.9	61.0	60.6*	0.83	0.92
MT 0969	58.6*	61.0	59.5	60.0	61.7	63.0	61.0	60.7*	0.82	0.90
MT 0972	58.2	62.0	59.0	59.5	60.0	62.9	60.1	60.2*	0.97	0.95
MT 0974	57.9	62.5	58.0	59.1	61.4	62.8	60.2	60.3*	1.15	0.90
MT 0975	55.2	58.5	56.5	57.9	56.4	60.1	57.2	57.4	0.85	0.79
MTHW0867	56.4	58.0	52.5	52.1	57.2	61.7	56.2	56.3	1.51	0.60
Reeder	58.0	61.5	59.0	60.3*	60.5	63.1*	60.0	60.4*	0.95	0.94
Mott	56.3	61.0	59.0	58.9	59.6	61.7	59.6	59.4	0.97	0.87
McNeal	57.6	60.0	57.5	59.5	58.4	62.1	59.7	59.2	0.89	0.84
Outlook	56.8	60.5	58.0	58.0	59.3	61.1	59.1	59.0	0.87	0.96
Choteau	56.5	61.0	58.0	58.9	60.2	62.5	59.5	59.5	1.16	0.97
Vida	57.5	60.0	56.5	59.4	59.8	62.2	59.2	59.2	1.01	0.85
site mean	57.2	60.6	57.9	58.6	59.6	62.1	59.7	59.4	1.00	1.00
CV (S/mean)	0.92	1 rep	1 rep	0.68	1 rep	0.58	1.20	1.40		
F-value	12.58**			34.07**		18.67**	7.73	10.70**		
LSD (.05)	0.89			0.66		0.60	1.18	0.87		

Means followed by an asterisk are not significantly different at the .05 level from wheat with the highest test weight which is underlined

Table 3. 2010 protein content (percent) summary for the advanced spring wheat nursery grown across Montana.

Line or variety	Havre, dryland	Sidney, dryland	Sidney irrigated	Kalispell, high rainfall	Moccasin, dryland	Huntley, dryland	Conrad, dryland	average	BYX	RSQ
Volt	11.5	10.2	14.2	13.5	12.4	10.8	13.5	12.3	0.97	0.84
Brennan	12.7	13.1	15.1	14.7	11.2	12.3	14.1	13.3*	0.79	0.66
AGRIPR11	12.3	11.4	14.2	14.3	12.2	11.2	13.0	12.7	0.85	0.96
AGRIPR12	12.6	11.3	13.5	13.6	12.6	10.2	12.6	12.3	0.77	0.82
AGRIPR13	12.3	11.2	15.3	15.4	12.5	11.6	<u>15.4</u>	13.4*	1.26	0.90
Freyr	13.2	12.5	13.8	14.7	12.9	11.2	14.4	13.2	0.78	0.87
Kelby	14.0	13.4	15.1	15.1	12.0	<u>12.6</u>	14.7	<u>13.8</u>	0.74	0.73
Kuntz	12.0	11.7	14.0	14.5	11.7	10.8	13.6	12.6	0.97	0.97
AP604 CL	13.1	11.9	13.9	13.7	11.6	11.0	14.2	12.8	0.80	0.82
Jenna	12.2	12.1	13.8	14.1	11.1	10.8	13.7	12.5	0.87	0.85
BZ92413R	11.4	10.7	13.4	14.2	13.0	10.6	13.2	12.3	0.90	0.81
BZ92413W	13.0	12.4	14.0	14.6	12.0	11.8	14.2	13.1	0.75	0.91
BZ93461W	12.0	10.8	12.9	13.3	12.9	10.7	12.8	12.2	0.64	0.74
Hank	12.9	10.7	14.1	13.7	11.8	10.7	13.5	12.5	0.95	0.91
Conan	12.1	11.6	14.6	14.4	11.5	12.1	13.8	12.9	0.86	0.83
Corbin	12.5	10.9	13.8	14.2	11.3	10.5	13.3	12.4	1.02	0.98
ONeal	12.3	10.5	14.8	14.8	13.2	9.9	12.9	12.6	1.23	0.85
Jedd	12.1	10.7	14.4	13.7	12.3	10.5	13.0	12.4	0.97	0.91
Thatcher	13.8	11.5	14.2	14.8	11.9	11.7	14.5	13.2	0.94	0.86
Fortuna	13.0	11.4	14.4	14.4	12.1	11.7	14.7	13.1	0.93	0.90
IMICHT79	12.8	10.9	14.0	15.1	11.9	11.3	13.6	12.8	1.05	0.96
MT 0747	<u>13.9</u>	11.4	14.3	15.2	13.0	11.6	14.1	13.3*	0.94	0.89
MT 0750	13.2	11.6	13.3	15.0	12.2	11.2	15.0	13.1	0.95	0.80
MT 0755	13.0	11.3	14.5	<u>16.0</u>	11.9	11.5	14.2	13.2	1.21	0.95
MT 0801	12.9	11.1	14.0	14.2	11.9	10.6	14.6	12.8	1.06	0.90
MT 0802	12.0	11.1	14.0	15.3	13.5	11.2	13.9	13.0	1.01	0.83
MT 0814	13.4	12.0	<u>15.5</u>	15.0	11.7	10.7	13.7	13.1	1.18	0.91
MT 0827	12.6	11.5	14.9	15.1	12.3	11.4	13.5	13.0	1.04	0.97
MT 0832	12.8	12.1	14.1	14.9	11.3	10.7	13.9	12.8	1.04	0.91
MT 0847	12.4	11.7	14.6	15.2	12.1	11.5	14.4	13.1	1.06	0.96
MT 0852	12.6	12.1	14.8	14.8	12.0	11.7	13.4	13.1	0.88	0.92
MT 0855	12.9	11.5	14.3	15.4	13.2	11.1	14.2	13.2	1.05	0.94
MT 0861	11.8	11.2	14.5	15.0	11.5	10.9	13.0	12.6	1.11	0.94
MT 0869	12.8	11.9	14.5	15.0	11.5	10.9	13.8	12.9	1.07	0.95
MT 0909	13.3	<u>13.4</u>	15.2	16.5	12.1	11.5	13.7	13.7*	1.08	0.80
MT 0912	13.0	11.2	13.5	15.4	11.7	10.9	13.4	12.7	1.05	0.90
MT 0914	12.8	11.0	15.2	14.3	11.6	10.8	13.5	12.7	1.13	0.92
MT 0921	12.7	11.8	14.0	14.9	11.7	11.1	13.6	12.8	0.95	0.96
MT 0923	12.4	10.9	14.0	15.5	12.4	10.4	12.9	12.6	1.17	0.92
MT 0927	13.2	11.5	14.6	15.5	11.9	11.4	13.6	13.1	1.09	0.95

(continued)

Table 3 (continued). 2010 protein content (percent) summary for the advanced spring wheat nursery grown across Montana.

Line or variety	Havre, dryland	Sidney, dryland	Sidney irrigated	Kalispell, high rainfall	Moccasin, dryland	Huntley, dryland	Conrad, dryland	average	BYX	RSQ
MT 0928	12.2	11.5	14.8	15.1	11.5	11.2	14.2	12.9	1.16	0.95
MT 0930	12.5	11.7	15.0	14.8	11.3	11.7	14.5	13.1	1.07	0.87
MT 0940	12.4	12.0	14.3	14.8	<u>14.7</u>	11.8	13.3	13.3*	0.66	0.54
MT 0941	12.0	11.8	15.3	15.7	11.4	10.8	13.5	12.9	1.30	0.91
MT 0943	12.6	10.7	14.5	14.0	11.6	10.4	13.1	12.4	1.08	0.95
MT 0944	12.5	11.1	13.9	14.3	12.0	10.3	13.4	12.5	1.02	0.98
MT 0950	12.8	12.3	14.6	14.4	13.7	10.3	13.4	13.1	0.88	0.73
MT 0953	12.3	11.1	14.4	15.4	13.5	10.5	13.6	13.0	1.15	0.87
MT 0959	12.1	10.9	14.4	14.7	12.0	10.8	14.4	12.8	1.17	0.96
MT 0964	12.4	11.5	14.8	14.9	12.9	10.3	13.6	12.9	1.14	0.94
MT 0965	13.1	11.4	14.1	14.8	13.2	10.1	12.7	12.8	0.99	0.79
MT 0967	12.8	11.7	13.9	15.3	12.8	11.6	14.5	13.2	0.94	0.92
MT 0968	12.9	11.0	14.2	14.5	11.8	11.8	13.5	12.8	0.89	0.91
MT 0969	13.2	10.5	14.0	15.1	13.7	11.7	13.7	13.1	0.92	0.73
MT 0972	12.6	11.1	14.4	15.6	12.4	10.9	13.7	13.0	1.19	0.98
MT 0974	13.2	11.2	14.5	15.0	12.7	11.4	13.4	13.1	0.97	0.94
MT 0975	12.0	11.4	14.6	14.9	12.3	10.2	13.9	12.8	1.21	0.97
MTHW0867	11.9	11.9	14.2	13.4	11.6	10.3	12.9	12.3	0.83	0.84
Reeder	12.7	12.2	14.5	15.2	12.6	10.9	13.9	13.1	1.01	0.96
Mott	13.3	11.8	13.3	14.5	11.6	11.3	14.2	12.9	0.82	0.82
McNeal	12.6	11.0	13.6	15.2	12.2	10.6	13.4	12.7	1.08	0.95
Outlook	12.7	11.6	14.1	15.2	12.1	10.5	13.8	12.8	1.12	0.98
Choteau	13.0	11.7	14.9	15.0	11.5	11.6	13.6	13.0	1.02	0.91
Vida	11.5	11.2	15.0	15.0	11.5	10.4	13.6	12.6	1.30	0.95
site mean	12.6	11.5	14.3	14.8	12.2	11.0	13.7	12.90	1.00	1.00
CV (S/mean)	1 rep	1 rep	1 rep	1 rep	1 rep	1 rep	1 rep	4.3		
F-value								2.64**		
LSD (.05)								0.58		

Means followed by an asterisk are not significantly different at the .05 level from wheat with the highest protein which is underlined

Table 4. 2010 heading date (days from January 1) summary for the advanced spring wheat nursery grown across Montana. 178= June 27

Line or variety	Havre, dryland	Sidney, dryland	Sidney irrigated	Kalispell, high rainfall	Moccasin, dryland	Huntley, dryland	Conrad, dryland	average	BYX	RSQ
Volt	181.0	179.4	185.0	182.3	187.0	170.4	187.0	181.7	1.11	0.92
Brennan	178.0	177.3	178.3*	179.7*	184.6	167.5*	181.0	178.1*	1.04	0.96
AGRIPR11	181.5	178.7	180.0	183.1	185.4	171.9	187.0	181.1	0.99	0.97
AGRIPR12	180.7	178.5	179.1*	182.0	184.7	170.0	184.0	179.9	0.99	1.00
AGRIPR13	177.7	176.6*	177.7*	178.5	181.7	166.7	181.0	177.1	0.99	0.99
Freyr	180.1	178.2	179.3*	180.5	184.0	170.3	185.0	179.6	0.96	0.99
Kelby	178.7	177.1*	177.4	179.3*	183.3	168.0*	181.0	177.8*	0.96	0.98
Kuntz	180.8	179.4	178.7*	181.5	185.0	169.8	184.0	179.9	1.00	0.99
AP604 CL	177.9	176.8*	177.7*	180.2	184.0	168.4	182.0	178.1*	1.00	0.99
Jenna	182.3	180.3	182.3	183.9	188.9	172.6	188.0	182.6	1.08	0.99
BZ92413R	179.6	179.2	179.6	181.1	184.9	169.1	184.0	179.7	1.03	0.99
BZ92413W	179.0	178.3	179.0*	180.3	182.9	168.0*	180.0	178.2*	0.92	0.92
BZ93461W	178.9	177.3	178.0*	180.0	184.4	168.4	182.0	178.4	1.01	0.99
Hank	179.9	176.8*	179.4	180.4	183.1	168.7	182.0	178.6	0.96	0.98
Conan	179.6	177.1*	179.7	181.0	184.3	169.6	184.0	179.3	1.00	0.99
Corbin	179.2	178.2	178.7*	180.5	184.0	168.8	181.0	178.6	0.94	0.96
ONeal	181.0	178.9	180.3	182.8	184.3	171.1	187.0	180.8	1.00	0.97
Jedd	179.3	176.1	178.4*	180.3	184.0	168.5	182.0	178.4	1.01	0.99
Thatcher	182.9	180.5	183.6	186.3	189.0	172.3	189.0	183.4	1.17	0.99
Fortuna	180.6	178.4	179.6	181.8	184.4	169.6	187.0	180.2	1.09	0.97
IMICHT79	179.7	179.4	181.1	182.1	185.1	170.8	186.0	180.6	1.00	0.98
MT 0747	179.5	177.1*	178.9*	180.1	183.1	168.3	180.0	178.1*	0.91	0.94
MT 0750	179.6	178.7	180.0	181.7	184.0	170.1	186.0	180.0	1.01	0.97
MT 0755	178.0	178.2	178.7*	179.0*	183.7	168.1	180.0	178.0*	0.92	0.92
MT 0801	179.3	177.9	178.1*	179.5*	181.6*	169.0	181.0	178.0*	0.83	0.96
MT 0802	182.3	179.6	182.2	183.1	188.4	172.8	188.0	182.4	1.05	0.97
MT 0814	179.3	177.0*	178.3*	180.2	183.6	169.3	182.0	178.5	0.93	0.99
MT 0827	178.7	177.9	177.8*	179.7*	182.7*	168.4	181.0	178.0*	0.91	0.97
MT 0832	179.2	177.3	178.3*	180.0	182.0*	167.9*	181.0	178.0*	0.93	0.97
MT 0847	179.6	178.1	178.7*	181.3	184.2	168.6	182.0	178.9	1.00	0.98
MT 0852	180.4	179.1	179.6	182.2	184.5	170.0	186.0	180.3	1.04	0.99
MT 0855	179.7	178.1	178.4*	180.4	184.3	168.5	186.0	179.3	1.12	0.98
MT 0861	180.7	178.7	179.7	182.3	184.4	171.2	184.0	180.2	0.90	1.00
MT 0869	179.3	178.2	179.1*	180.4	184.7	168.2	182.0	178.8	1.03	0.97
MT 0909	181.6	180.6	182.7	185.6	188.3	174.1	189.0	183.1	1.01	0.96
MT 0912	180.5	179.4	180.4	182.4	185.3	171.9	185.0	180.7	0.90	0.99
MT 0914	179.0	177.9	178.3*	180.8	182.7*	168.9	182.0	178.5	0.92	0.98
MT 0921	179.4	178.4	179.0*	182.4	185.0	171.0	186.0	180.2	1.00	0.97
MT 0923	180.0	177.9	179.1*	182.0	185.0	170.6	184.0	179.8	0.96	0.99
MT 0927	181.3	179.8	181.3	183.3	185.6	170.6	187.0	181.3	1.07	0.99

(continued)

Table 4 (continued). 2010 heading date (days from January 1) summary for the advanced spring wheat nursery grown across Montana. 178= June 27

Line or variety	Havre, dryland	Sidney, dryland	Sidney irrigated	Kalispell, high rainfall	Moccasin, dryland	Huntley, dryland	Conrad, dryland	average	BYX	RSQ
MT 0928	180.0	179.9	180.0	182.4	185.3	171.0	187.0	180.8	1.02	0.97
MT 0930	180.4	178.8	180.3	183.1	184.6	170.8	186.0	180.6	1.00	0.98
MT 0940	180.6	179.6	180.7	183.1	188.6	172.6	189.0	182.0	1.10	0.94
MT 0941	184.0	179.1	181.7	184.7	187.3	173.2	188.0	182.6	1.01	0.95
MT 0943	179.6	179.8	178.7*	180.8	184.4	169.3	187.0	179.9	1.09	0.95
MT 0944	179.3	177.2*	178.6*	181.1	183.3	168.6	184.0	178.9	1.03	0.99
MT 0950	181.6	179.0	180.9	183.6	186.7	171.6	186.0	181.3	1.02	0.99
MT 0953	180.7	178.9	179.9	181.7	187.0	169.7	185.0	180.4	1.11	0.99
MT 0959	179.7	178.4	179.3*	179.9	182.7*	168.3	181.0	178.5	0.92	0.94
MT 0964	180.7	179.2	180.3	184.4	185.3	171.3	186.0	181.0	1.00	0.97
MT 0965	182.9	180.5	182.6	186.3	187.7	173.4	188.0	183.0	1.02	0.98
MT 0967	179.0	177.5	179.4	179.9	183.0	168.4	181.0	178.3	0.93	0.97
MT 0968	180.1	179.5	180.3	181.4	185.6	171.0	186.0	180.6	0.99	0.98
MT 0969	180.3	180.1	181.3	182.6	186.3	171.0	185.0	180.9	0.99	0.99
MT 0972	179.9	178.7	178.7*	181.3	185.4	169.7	186.0	180.0	1.08	0.98
MT 0974	181.7	179.3	181.7	182.0	186.0	171.1	186.0	181.1	1.01	0.99
MT 0975	180.6	179.6	179.7	181.5	184.8	170.0	185.0	180.1	1.01	0.99
MTHW0867	180.8	177.1*	178.9*	181.0	185.7	170.5	184.0	179.7	0.99	0.97
Reeder	179.6	178.0	179.3*	180.4	184.8	170.0	182.0	179.2	0.91	0.97
Mott	180.5	179.9	181.3	186.2	185.7	171.7	187.0	181.7	1.04	0.94
McNeal	180.3	179.9	181.0	184.0	184.9	171.4	187.0	181.2	1.00	0.96
Outlook	181.7	180.3	181.6	184.1	186.4	172.3	185.0	181.6	0.93	0.99
Choteau	179.3	179.1	179.0*	181.2	184.3	171.1	185.0	179.8	0.91	0.98
Vida	181.1	178.7	179.7	181.2	186.4	169.7	186.0	180.4	1.11	0.99
site mean	180.2	178.6	179.8	181.8	184.9	170.1	184.5	180.0	1.00	1.00
CV (S/mean)	0.41	0.36	0.36	0.43	0.35	0.45	1 rep	0.57		
F-value	8.20**	7.44**	15.98**	14.40**	19.36**	12.96**		14.65**		
LSD (.05)	1.21	1.10	1.89	1.29	1.08	1.26		1.09		

Means followed by an asterisk are not significantly different at the .05 level from the earliest heading wheat which is underlined

Table 5. 2010 plant height (inches) summary for the advanced spring wheat nursery grown across Montana.

Line or variety	Havre, dryland	Sidney, dryland	Sidney irrigated	Kalispell, high rainfall	Moccasin, dryland	Huntley, dryland	Conrad, dryland	average	BYX	RSQ
Volt	29.5	22.4	31.1	36.2	31.0	36.6	33.3	31.4	0.99	0.92
Brennan	31.7	25.9	27.2	32.3	30.0	36.3	32.1	30.8	0.68	0.84
AGRIPR11	30.8	24.5	28.9	35.2	29.6	35.8	33.7	31.2	0.85	1.00
AGRIPR12	29.5	22.1	26.4	32.4	27.9	35.9	31.5	29.4	0.93	0.95
AGRIPR13	34.7	28.4	31.0	40.7	35.0*	41.7	38.3	35.7	1.02	0.95
Freyr	33.7	27.6	31.4	39.2	34.5	41.1	37.6	35.0	0.99	0.97
Kelby	29.6	22.9	27.3	33.2	31.5	36.1	32.7	30.5	0.89	0.92
Kuntz	31.0	24.2	29.8	34.1	29.0	37.5	33.7	31.3	0.89	0.95
AP604 CL	33.5	23.1	30.0	39.0	34.3	42.9	38.1	34.4	1.37	0.97
Jenna	30.0	25.4	30.4	36.2	30.8	36.1	35.7	32.1	0.86	0.97
BZ92413R	30.9	23.9	28.7	36.5	29.4	35.6	33.7	31.2	0.93	0.98
BZ92413W	31.7	25.9	29.9	35.7	33.4	39.6	36.3	33.2	0.93	0.93
BZ93461W	30.6	24.0	29.9	36.9	30.7	35.9	34.7	31.8	0.94	0.98
Hank	30.8	23.6	28.4	35.2	30.2	35.0	34.6	31.1	0.90	0.98
Conan	32.5	22.5	28.7	36.8	30.1	36.9	33.6	31.6	1.06	0.96
Corbin	32.5	24.5	29.3	37.5	31.5	38.5	35.8	32.8	1.06	1.00
ONeal	32.1	25.8	30.1	36.8	33.4	36.5	36.9	33.1	0.86	0.95
Jedd	26.9	22.1	23.9	30.8	26.7	33.1	31.0	27.8	0.84	0.95
Thatcher	<u>42.3</u>	<u>32.8</u>	<u>38.9</u>	<u>49.6</u>	37.4*	<u>47.6</u>	<u>46.0</u>	<u>42.1</u>	1.25	0.93
Fortuna	40.0*	30.5*	34.0	45.1	<u>37.5</u>	42.7	43.3	39.0	1.09	0.92
IMICHT79	31.4	23.9	31.3	35.6	29.7	37.6	35.6	32.1	0.97	0.96
MT 0747	32.1	24.7	29.6	38.1	33.4	39.3	36.1	33.3	1.07	0.97
MT 0750	34.2	26.4	32.0	40.9	32.9	39.2	37.9	34.8	1.05	0.97
MT 0755	32.9	25.0	30.2	39.6	33.2	38.5	37.2	33.8	1.09	0.98
MT 0801	34.2	27.8	33.1	39.2	34.2	40.2	37.7	35.2	0.90	0.99
MT 0802	34.3	24.8	33.4	39.6	32.5	39.4	40.2	34.9	1.15	0.96
MT 0814	31.7	26.0	28.8	35.8	31.3	36.4	34.8	32.1	0.81	0.98
MT 0827	34.8	27.7	31.2	38.9	32.2	41.1	36.2	34.6	0.96	0.94
MT 0832	31.4	25.6	31.0	36.5	31.7	38.5	36.5	33.0	0.94	0.99
MT 0847	32.5	24.5	30.0	36.2	31.4	39.1	36.1	32.8	1.03	0.98
MT 0852	33.7	25.8	30.7	37.9	32.0	39.3	37.3	33.8	1.02	1.00
MT 0855	33.1	25.6	30.1	37.8	32.1	39.7	36.2	33.5	1.02	0.98
MT 0861	30.6	23.7	27.7	35.3	30.5	37.4	34.8	31.4	1.01	0.98
MT 0869	33.8	24.5	29.4	36.5	31.4	36.9	36.4	32.7	0.96	0.96
MT 0909	33.7	25.4	32.1	38.1	30.7	37.1	36.2	33.3	0.91	0.94
MT 0912	29.8	24.9	29.0	36.2	30.8	37.3	35.0	31.9	0.95	0.98
MT 0914	30.7	24.3	30.6	36.4	30.5	37.1	34.8	32.1	0.94	0.98
MT 0921	31.7	23.4	30.3	36.1	29.6	36.3	34.8	31.7	0.96	0.97
MT 0923	30.4	23.2	28.3	35.4	30.0	36.3	34.2	31.1	0.99	1.00
MT 0927	33.0	25.0	31.6	35.7	29.2	35.9	34.6	32.1	0.80	0.90

(continued)

Table 5 (continued). 2010 plant height (inches) summary for the advanced spring wheat nursery grown across Montana.

Line or variety	Havre, dryland	Sidney, dryland	Sidney irrigated	Kalispell, high rainfall	Moccasin, dryland	Huntley, dryland	Conrad, dryland	average	BYX	RSQ
MT 0928	32.1	25.7	30.9	37.3	30.0	41.0	38.7	33.7	1.13	0.94
MT 0930	30.6	23.1	28.7	35.4	30.1	37.9	35.8	31.7	1.08	0.99
MT 0940	31.6	24.4	29.8	37.4	31.0	37.4	38.2	32.8	1.08	0.97
MT 0941	31.1	25.3	31.3	35.8	29.9	37.6	37.4	32.6	0.94	0.94
MT 0943	32.9	25.5	28.9	35.8	29.4	37.9	36.5	32.4	0.96	0.94
MT 0944	30.8	25.8	28.7	36.4	31.6	36.8	35.1	32.2	0.87	0.97
MT 0950	34.4	26.1	30.6	41.1	33.9	39.7	40.0	35.1	1.16	0.96
MT 0953	34.3	25.4	31.2	40.3	32.5	39.0	39.0	34.5	1.13	0.98
MT 0959	30.4	23.5	30.2	36.0	32.0	39.1	36.3	32.5	1.08	0.96
MT 0964	29.9	22.8	28.3	34.5	31.1	34.7	33.0	30.6	0.87	0.95
MT 0965	33.2	25.4	34.7	39.0	33.0	38.6	39.5	34.8	1.01	0.90
MT 0967	31.5	25.1	30.0	38.2	31.3	39.0	36.5	33.1	1.07	1.00
MT 0968	33.4	26.3	32.5	39.5	31.3	39.2	38.6	34.4	1.04	0.97
MT 0969	32.8	27.6	31.0	38.6	32.8	40.8	38.3	34.6	1.00	0.97
MT 0972	33.0	25.6	30.7	37.7	31.8	39.9	35.6	33.5	1.01	0.98
MT 0974	32.7	26.2	31.9	38.6	34.0	41.1	38.4	34.7	1.07	0.98
MT 0975	33.2	25.4	31.3	38.1	31.2	40.0	36.4	33.6	1.05	0.99
MTHW0867	31.0	28.3	31.7	38.9	31.1	37.5	37.0	33.6	0.83	0.90
Reeder	33.5	22.5	30.9	39.4	32.6	40.2	37.8	33.8	1.30	0.99
Mott	33.5	27.0	33.7	42.7	33.8	41.8	41.6	36.3	1.23	0.96
McNeal	33.6	25.1	31.2	41.1	32.6	39.8	38.0	34.5	1.19	0.99
Outlook	34.8	25.4	32.6	39.2	31.2	38.5	38.7	34.4	1.05	0.95
Choteau	31.6	24.6	30.8	36.2	31.4	37.0	35.3	32.4	0.90	0.99
Vida	30.7	25.6	30.8	38.7	31.3	39.9	37.8	33.6	1.11	0.96
site mean	32.4	25.2	30.4	37.5	31.6	38.4	36.5	33.1	1.00	1.00
CV (S/mean)	4.83	6.59	3.65	3.49	4.93	3.37	2.00	3.32		
F-value	6.32**	3.47**	9.49**	14.57**	4.50**	9.08**	35.09**	25.09**		
LSD (.05)	2.52	2.83	1.89	2.12	2.56	2.18	1.23	1.16		

Means followed by an asterisk are not significantly different at the .05 level from the tallest wheat which is underlined

Table 6. 2010 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
Volt	64.1	12	60.8	1	12.3	60	181.7	56	31.4	53
Brennan	61.6	43	60.3	12	13.3	4	180.2	7	30.8	60
AGRIPR11	63.1	28	59.9	23	12.7	45	181.1	50	31.2	56
AGRIPR12	56.5	5	59.4	20	12.3	61	180.0	30	29.4	63
AGRIPR13	61.4	45	60.6	2	13.4	3	177.1	1	35.8	4
Freyr	60.2	49	60.1	18	13.2	7	179.7	25	35.0	7
Kelby	59.7	51	60.2	15	13.8	1	180.1	2	30.5	62
Kuntz	61.2	46	59.6	28	12.6	49	180.1	31	31.3	55
AP604 CL	61.7	42	59.6	16	12.8	35	178.5	8	34.4	16
Jenna	60.1	13	58.8	51	12.5	54	182.6	60	32.1	43
BZ92413R	64.9	17	60.8	7	12.4	62	179.7	26	31.2	57
BZ92413W	59.6	53	60.8	8	13.1	12	180.1	10	33.2	30
BZ93461W	55.1	35	59.5	31	12.2	64	178.5	12	31.8	49
Hank	61.3	26	57.5	61	12.5	55	178.9	17	31.1	58
Conan	59.1	55	60.1	19	12.9	29	179.7	23	31.6	52
Corbin	62.3	36	59.2	39	12.4	57	178.6	18	32.8	34
ONeal	60.5	48	59.0	29	12.6	50	180.8	46	33.1	31
Jedd	53.7	60	59.1	43	12.4	58	178.4	13	27.8	64
Thatcher	46.0	64	58.4	53	13.2	8	183.4	64	42.9	1
Fortuna	57.5	59	59.7	24	13.1	13	180.2	36	40.5	2
IMICHT79	63.0	29	59.7	25	12.8	36	180.6	42	32.1	44
MT 0747	62.4	18	59.0	45	13.4	5	178.2	9	33.3	28
MT 0750	63.7	34	58.8	52	13.1	14	180.0	33	34.8	9
MT 0755	57.7	19	59.2	40	13.2	9	177.6	3	33.8	19
MT 0801	61.8	47	59.0	46	12.8	37	176.8	4	35.2	5
MT 0802	61.6	44	60.2	21	13.0	24	182.4	59	34.9	8
MT 0814	65.1	21	59.0	30	13.1	15	178.9	14	32.1	45
MT 0827	58.0	2	60.7	4	13.0	25	176.5	5	34.6	12
MT 0832	70.9	1	58.9	49	12.8	38	179.4	6	33.0	33
MT 0847	62.3	23	59.7	26	13.1	16	179.0	20	32.8	35
MT 0852	64.5	6	60.3	13	13.1	17	180.3	39	33.8	20
MT 0855	68.3	4	58.3	55	13.2	10	179.5	24	33.5	26
MT 0861	72.3	7	58.9	50	12.6	51	180.2	37	31.4	54
MT 0869	70.5	3	59.7	27	12.9	30	178.8	19	32.7	37
MT 0909	58.9	33	60.4	9	13.7	2	183.1	63	33.3	29
MT 0912	62.8	39	59.4	34	12.7	46	180.7	45	31.9	48
MT 0914	59.8	37	58.3	56	12.7	47	177.7	15	32.1	46
MT 0921	60.4	24	59.1	44	12.8	39	180.4	38	31.7	50
MT 0923	58.5	38	59.4	35	12.6	52	179.9	28	31.1	59
MT 0927	64.9	22	57.6	59	13.1	18	181.3	53	32.1	47

(continued)

Table 6 (continued). 2010 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
MT 0928	68.0	16	59.0	47	12.9	31	180.8	47	33.7	22
MT 0930	60.0	50	57.6	60	13.1	19	180.6	43	31.7	51
MT 0940	59.4	54	60.2	10	13.3	6	182.0	58	32.8	36
MT 0941	60.1	57	57.9	58	12.9	32	182.6	61	32.6	38
MT 0943	67.6	9	56.7	63	12.4	59	180.1	32	32.4	40
MT 0944	62.8	32	59.4	36	12.5	56	179.2	21	32.2	42
MT 0950	61.1	56	58.2	57	13.1	20	181.3	54	35.1	6
MT 0953	64.0	25	59.4	37	13.0	26	180.4	40	34.5	14
MT 0959	63.2	27	61.6	3	12.8	40	177.5	16	32.5	39
MT 0964	63.5	31	58.4	54	12.9	33	181.0	49	30.6	61
MT 0965	55.1	62	59.0	32	12.8	41	183.0	62	34.8	10
MT 0967	61.8	40	60.0	22	13.2	11	178.3	11	33.1	32
MT 0968	64.7	11	60.9	6	12.8	42	180.6	44	34.4	17
MT 0969	64.7	20	61.0	5	13.1	21	180.9	48	34.6	13
MT 0972	59.1	41	60.2	17	13.0	27	180.2	34	33.5	27
MT 0974	59.7	52	60.3	14	13.1	22	181.1	51	34.7	11
MT 0975	66.4	10	57.4	62	12.8	43	180.1	35	33.6	23
MTHW0867	51.1	63	56.3	64	12.3	63	180.4	27	33.6	24
Reeder	68.5	14	59.8	11	13.1	23	179.2	22	33.8	21
Mott	56.6	61	59.4	38	12.9	34	181.7	57	36.3	3
McNeal	58.6	58	59.3	41	12.7	48	181.2	52	34.5	15
Outlook	62.0	30	59.0	48	12.9	44	181.6	55	34.4	18
Choteau	66.0	8	59.5	33	13.0	28	180.0	29	32.4	41
Vida	67.4	15	59.2	42	12.6	53	180.4	41	33.6	25
SITE MEAN	61.7		59.4		12.90		180.0		33.1	
C.V. (S/MEAN %)	12.53		1.40		4.3		0.57		3.32	
F-value	1.75**		10.70**		2.64**		14.65**		25.09**	
LSD (.05)	8.24		0.87		0.58		1.09		1.16	

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