

PROJECT TITLE:

Statewide Barley Performance

YEAR: 1991LOCATIONS:

Bozeman, irrigated and dryland
Conrad, irrigated and dryland
Havre, dryland
Huntley, irrigated and dryland
Kalispell, irrigated
Moccasin, dryland
Sidney, irrigated and dryland

PERSONNEL:

Bozeman: Tom Blake (Project Leader) & Pat Hensleigh
Conrad: Greg Kushnak
Havre: Gregg Carlson
Huntley: Gil Stallknecht
Kalispell: Leon Welty
Moccasin: Dave Wichman
Sidney: Joyce Eckhoff

RESULTS:

The statewide (Intrastate) Barley Variety Nursery was grown at the seven locations listed above. Some locations had both irrigated and dryland nurseries.

Yield data are summarized for each location in Tables 1 and 3 for dryland and irrigated, respectively. Other traits are presented as statewide averages in Tables 2 and 4 for dryland and irrigated, respectively. Dryland yields were exceptionally high this year, and nearly approached irrigated levels. Potential for improvements in yield and lodging resistance over currently available varieties were observed among the entries. Several experimental lines from MSU exceeded the yield of Gallatin and Steptoe on dryland. MT890008 was the top yielder on irrigated, and ranked second only to Baronesse on dryland. Lodging resistance of MT890008 appeared to be slightly better than for Baronesse, which is fairly good.

1991 STATEWIDE BARLEY STATEWIDE REPORT - DRYLAND YIELD (bu/ac)

ID	Pedigree	Havre	Sidney	Huntley	Conrad	Bozeman	Avg	BYX	RSQ
82301593	82/2892 (Ultra/Apex)//NS	97.72	75.69	89.26	94.21	70.23	85.4	0.83	0.93
CI 9558	Pirolina	92.63	59.75	81.84	96.62	67.23	79.6	1.13	0.97
CI 15229	Steptoe	98.41	71.95	67.82	101.76	84.47	84.9	0.76	0.48
CI 15478	Klages	79.79	54.37	79.90	93.88	54.39	72.5	1.19	0.89
CI 15514	Hector	104.72	60.45	82.82	93.27	66.79	81.6	1.27	0.93
CI 15773	Morex	70.59	72.34	82.05	78.35	31.87	62.6	0.77	0.35
CI 15856	Lewis	98.28	68.80	87.89	95.38	62.75	82.6	1.13	0.96
CI 15857	Clark	97.00	71.23	83.64	82.80	57.31	78.4	0.92	0.74
H1851032	Harrington/Clark(MT851032	88.34	63.03	86.79	91.66	68.37	79.6	0.89	0.90
H1851195	MT41918/TR450 (MT851195 H	103.37	59.74	82.93	100.56	73.84	84.1	1.27	0.92
H4851224	ID810264/MT 41918(MT85122	97.42	65.84	83.22	96.82	60.07	80.7	1.23	0.98
H5851161	MT 41918/MT 41279(MT85116	88.00	62.29	84.85	99.29	68.43	80.6	1.03	0.90
H5860219	Lewis/Apex (MT860219 HR #	81.29	63.95	81.04	93.57	57.16	75.4	0.98	0.86
H6851012	Clark/WA877178(MT851012 H	90.27	64.34	82.03	89.95	66.69	78.7	0.89	0.98
MN 36	Robust	71.94	58.73	66.81	84.62	40.63	64.5	1.04	0.78
MT 83435	Clark/TR450	93.19	63.99	83.48	97.60	74.04	82.5	0.96	0.93
MT140523	Hector/Klages	101.98	68.03	83.09	93.29	61.23	81.5	1.19	0.94
MT851005	Clark/ID810264	93.65	63.05	78.96	93.78	58.45	77.6	1.19	0.99
MT851012	Clark/WA877178	87.17	63.16	82.53	93.47	68.61	79.0	0.89	0.94
MT851032	Harrington/Clark	91.50	64.79	87.53	90.53	60.83	79.0	1.03	0.91
MT851161	MT 41918/MT 41279	89.58	58.71	85.86	104.23	55.94	78.9	1.44	0.92
MT851195	MT41918/TR450	95.24	59.04	86.48	104.81	73.32	83.8	1.23	0.89
MT851425	MT 51549/Lewis	89.03	54.46	80.29	95.37	62.87	76.4	1.22	0.95
MT860224	Lewis/Apex	91.39	62.59	83.33	93.49	54.79	77.1	1.23	0.95
MT860326	Lewis/TR533	100.26	71.83	81.02	94.12	56.41	80.7	1.19	0.88
MT860756	Gallatin/Bellona	113.39	78.08	89.30	99.56	79.32	91.9	0.99	0.86
MT861596	Lewis/MT 41549	92.23	59.83	74.48	93.44	63.63	76.7	1.12	0.98
MT870109	ID 76871/Gallatin	92.15	70.10	86.42	91.09	72.90	82.5	0.73	0.96
MT870120	Lindy/Martin	98.58	81.77	73.06	98.38	81.99	86.8	0.57	0.49
MT870246	Teton/Wesibred 501	96.21	69.92	73.02	92.05	78.27	81.9	0.70	0.70
MT886609	MT 81143/Lewis	85.05	56.23	82.66	96.38	59.50	76.0	1.20	0.92
MT886610	MT 81143/Lewis	94.09	61.11	83.72	105.22	63.22	81.5	1.36	0.96
MT887103	MT 81535/Lewis	98.60	66.98	80.30	84.13	63.05	78.6	0.94	0.84
MT887509	MT 81619/Lewis	93.96	67.72	84.88	100.36	63.19	82.0	1.15	0.97
MT887510	MT 81619/Lewis	92.10	60.44	78.92	80.92	71.77	76.8	0.73	0.75
MT887603	MT 81619/UT 1423	93.28	70.15	81.53	88.13	69.00	80.4	0.78	0.96
MT889102	Apex/Lewis	99.77	66.81	79.77	99.67	67.52	82.7	1.17	0.98
MT889106	Apex/Lewis	101.47	74.15	78.78	93.82	68.67	83.4	0.93	0.88
MT890008	Fleet/Bowman	97.79	62.63	95.25	122.78	84.82	92.7	1.34	0.72
MT890018	Gallatin/Apex	100.86	76.46	88.21	93.53	79.81	87.8	0.68	0.90
MT890021	Gallatin/Pirolina	97.09	80.53	85.17	95.39	78.17	87.3	0.60	0.94

Table 1 (cont). 1991 STATEWIDE BARLEY STATEWIDE REPORT - DRYLAND
YIELD (bu/ac)

ID	Pedigree	Havre	Sidney	Huntley	Conrad	Bozeman	Avg	BYX	RSQ
MT890030	Hector/Fleet	95.74	59.97	83.82	93.00	70.09	80.5	1.06	0.93
MT890033	Hector/Fleet	97.33	72.78	85.94	97.20	66.06	83.9	1.01	0.97
MT890034	Hector/ID910719	90.96	64.34	89.12	105.60	64.39	82.9	1.24	0.91
MT890039	Lewis/ID91019	99.95	69.54	79.89	92.93	48.41	78.1	1.35	0.84
MT890040	Lewis/ID91019	97.27	67.16	81.79	100.96	57.23	80.9	1.33	0.96
MT890061	Morex/ID910719	93.54	71.20	71.72	82.62	62.34	74.3	0.94	0.72
MT890065	MT4126/Bowman	96.22	65.33	77.71	84.40	64.66	77.7	0.91	0.89
MT890066	MT4126/Moravian III	92.18	63.41	81.24	83.11	81.54	80.3	0.55	0.53
MT890069	MT4126/Pirolina	92.37	58.02	79.44	100.34	75.50	81.1	1.07	0.83
MT890070	MT47219/Bowman	108.78	65.52	81.96	98.35	77.37	86.4	1.15	0.86
MT890089	MT81161/Harrington	90.60	67.11	82.24	91.51	69.69	80.2	0.82	0.99
MT890123	Steptoe/Columbia	105.91	71.95	78.84	93.65	83.31	86.7	0.78	0.86
MT890128	Steptoe/Robust	100.78	73.74	73.05	88.00	79.34	83.0	0.62	0.55
MT890157	Unitan/Robust	101.89	68.59	65.83	88.67	69.57	78.9	0.91	0.65
MTSU 247	Shonkin	70.51	50.09	67.80	86.84	55.72	66.2	0.94	0.83
ND 9866	Stark	100.86	64.03	78.73	103.60	66.20	82.7	1.33	0.97
NS 78054	Baronesse	98.81	80.92	99.83	108.22	80.75	93.7	0.83	0.88
NS010990	NS010990	78.45	65.80	90.48	92.02	64.27	78.2	0.76	0.84
PI483127	Russell	93.55	70.95	77.09	86.99	61.18	78.0	0.87	0.88
PI483237	Bowman	94.62	70.17	84.40	91.65	72.38	82.6	0.79	0.98
PI491534	Gallatin	90.02	72.94	90.22	100.11	71.80	85.0	0.83	0.88
PI531228	Bearpaw	85.19	62.94	84.32	94.19	63.17	78.0	0.97	0.91
SK 76333	Harrington	85.00	62.24	88.02	95.86	60.33	78.3	1.07	0.86
*****	SITE MEAN *****	93.75	66.31	81.63	94.47	66.51	80.5	1.00	1.00

Table 2.

1991 STATEWIDE BARLEY STATEWIDE REPORT - DRYLAND
STATEWIDE AVERAGE

ID	Pedigree	Test wt.	Plump	Height	Heading
82301593	82/2892 (Ultra/Apex)//NS	50.3	77.5	28.7	175.5
CI 9558	Piroline	51.8	65.0	34.5	175.1
CI 15229	Steptoe	47.2	74.0	32.0	171.2
CI 15478	Klages	49.1	51.8	33.7	178.0
CI 15514	Hector	51.1	69.9	34.8	175.2
CI 15773	Morex	49.2	66.8	35.3	172.5
CI 15856	Lewis	52.4	75.2	33.1	176.1
CI 15857	Clark	51.2	75.3	34.0	176.0
H1851032	Harrington/Clark(MT851032	50.6	79.6	34.5	177.3
H1851195	MT41918/TR450 (MT851195 H	51.3	80.4	33.8	175.3
H4851224	ID810264/MT 41918(MT85122	50.5	78.1	33.3	175.8
H5851161	MT 41918/MT 41279(MT85116	51.1	74.7	33.3	176.2
H5860219	Lewis/Apex (MT860219 HR #	50.0	70.1	32.1	176.3
H6851012	Clark/WA877178(MT851012 H	50.3	74.6	34.9	175.6
MN 36	Robust	50.4	72.1	35.7	173.0
MT 83435	Clark/TR450	51.7	75.0	33.6	176.0
MT140523	Hector/Klages	51.4	72.5	33.6	176.2
MT851005	Clark/ID810264	50.4	76.7	34.1	175.2
MT851012	Clark/WA877178	50.3	77.7	35.4	175.9
MT851032	Harrington/Clark	51.2	72.7	34.1	176.8
MT851161	MT 41918/MT 41279	49.9	69.0	32.4	176.6
MT851195	MT41918/TR450	51.1	74.5	33.4	174.7
MT851425	MT 51549/Lewis	51.8	72.3	34.3	176.6
MT860224	Lewis/Apex	49.9	69.6	32.4	176.8
MT860326	Lewis/TR533	52.3	72.8	33.7	176.0
MT860756	Gallatin/Bellona	52.0	78.6	31.9	175.7
MT861596	Lewis/MT 41549	53.2	74.0	33.8	175.8
MT870109	ID 76871/Gallatin	51.8	66.6	34.1	175.0
MT870120	Lindy/Martin	46.6	73.0	32.9	171.3
MT870246	Teton/Westbrad 501	46.0	73.0	33.6	172.5
MT886609	MT 81143/Lewis	50.6	71.6	33.5	176.4
MT886610	MT 81143/Lewis	51.4	70.9	33.8	176.1
MT887103	MT 81535/Lewis	50.6	74.1	30.8	174.6
MT887509	MT 81619/Lewis	51.2	69.1	33.2	175.5
MT887510	MT 81619/Lewis	52.5	75.0	33.7	175.2
MT887603	MT 81619/UT 1423	52.0	79.8	34.2	175.3
MT889102	Apex/Lewis	52.1	79.7	32.9	171.7
MT889106	Apex/Lewis	52.1	81.3	32.9	171.8
MT890008	Fleet/Bowman	49.5	68.3	31.9	178.4
MT890018	Gallatin/Apex	52.1	76.1	29.6	175.6
MT890021	Gallatin/Piroline	52.5	71.7	30.9	173.2

Table 2 (cont.) 1991 STATEWIDE BARLEY STATEWIDE REPORT - DRYLAND
STATEWIDE AVERAGE

ID	Pedigree	Test wt.	Plump	Height	Heading
MT890030	Hector/Fleet	50.9	62.4	28.7	174.3
MT890033	Hector/Fleet	51.2	57.3	26.5	174.4
MT890034	Hector/ID910719	48.2	48.6	26.1	176.3
MT890039	Lewis/ID91019	46.0	54.4	31.9	173.4
MT890040	Lewis/ID91019	48.6	62.2	33.3	173.2
MT890081	Morex/ID910719	49.1	66.6	34.4	172.1
MT890065	MT4126/Bowman	52.1	78.5	32.0	172.1
MT890066	MT4126/Moravian III	52.1	81.9	32.4	174.7
MT890069	MT4126/Piroline	51.4	70.3	33.6	176.2
MT890070	MT47219/Bowman	52.1	81.8	33.2	172.5
MT890089	MT81161/Harrington	51.3	80.9	33.1	174.0
MT890123	Steploe/Columbla	45.6	65.3	34.9	174.7
MT890128	Steploe/Robust	47.4	70.0	30.2	171.6
MT890157	Unitan/Robust	45.9	63.7	34.4	172.6
MTSU 247	Shonkin	52.1	43.3	35.4	177.2
ND 9866	Stark	52.4	79.4	35.0	173.5
NS 78054	Baronesse	51.5	77.4	31.2	176.1
NS010990	NS010990	50.1	66.2	25.4	178.0
PI483127	Russell	48.0	66.3	33.3	171.8
PI483237	Bowman	51.5	80.3	31.6	172.8
PI491534	Gallatin	52.1	73.1	33.5	174.0
PI531228	Bearpaw	49.6	72.2	33.4	177.5
SK 76333	Harrington	49.5	76.2	33.2	176.8
*****	SITE MEAN *****	50.5	71.6	32.8	174.9

1991 STATEWIDE BARLEY REPORT - IRRIGATED
YIELD (bu/ac)

ID	Pedigree	Kallspell High					Avg	BYX	RSQ
		Moisture	Sidney	Huntley	Conrad	Bozeman			
2B866513	Busch Agr 2B86-5113	116.05	63.29	94.11	102.39	111.19	97.4	1.16	0.91
82301593	82/2892 (Ultra/Apex)/NS	99.99	73.51	117.13	85.99	106.71	96.7	0.81	0.65
AC8425-3	Coors AC84-25-3	100.99	58.75	106.40	95.42	98.01	91.9	1.05	0.90
AC8430-7	Coors AC84-30-7	99.32	54.04	97.61	106.21	104.17	92.3	1.14	0.81
AC846615	Coors AC84-66-15	107.15	39.65	118.98	101.77	113.42	96.2	1.78	0.89
AC8611-1	Coors AC86-11-1	118.25	54.69	106.70	94.61	106.31	96.1	1.43	0.99
BA 1215	2B82-8529 (BA 8529)	112.32	69.63	117.26	107.83	106.76	102.8	1.04	0.88
BA 1603	BA 1603	102.17	71.93	83.19	81.83	90.08	85.8	0.57	0.76
BA 2601	M31/High Extract Comp. Bu	102.09	71.53	115.12	103.70	105.59	99.6	0.85	0.78
CI 9558	Piroline	98.02	55.92	91.04	79.11	89.15	82.6	0.95	0.98
CI 15229	Steploe	113.90	71.15	93.13	102.38	123.01	100.7	1.03	0.78
CI 15478	Klages	109.57	45.24	95.19	86.43	92.40	85.8	1.39	0.97
CI 15514	Hector	102.34	55.63	84.01	95.80	93.93	86.3	0.99	0.86
CI 15773	Morex	87.03	69.76	80.23	73.92	66.99	75.6	0.24	0.26
CI 15856	Lewis	112.74	66.98	98.43	94.53	99.26	94.4	0.96	0.96
CI 15857	Clark	104.93	67.70	93.02	69.06	99.64	86.9	0.84	0.69
DH85-9-5	Coors DH85-9-5	100.65	54.55	121.43	104.08	114.05	99.0	1.35	0.78
DH8537-1	Coors DH85-37-1	100.70	60.56	113.25	102.47	121.50	99.7	1.22	0.80
MN 36	Robust	106.29	58.34	76.64	78.72	91.27	82.3	0.93	0.80
MN 52	Excel (Robust 2*3/Cree/	116.25	86.52	95.92	92.39	106.11	99.4	0.57	0.68
MT 83435	Clark/TR450	119.52	57.84	98.36	92.48	107.35	95.1	1.34	0.98
MT140523	Hector/Klages	116.54	68.33	105.79	81.91	94.97	93.5	0.99	0.79
MT851005	Clark/ID810264	98.20	59.73	80.07	89.20	93.04	84.0	0.82	0.86
MT851012	Clark/WA877178	97.90	56.66	86.59	79.93	95.34	83.2	0.95	0.98
MT851032	Harrington/Clark	101.05	59.66	90.48	82.01	99.32	86.5	0.97	0.98
MT851145	WA 890878/MT41238	120.57	51.71	90.06	75.74	105.97	88.8	1.46	0.88
MT851161	MT 41918/MT 41279	96.12	56.29	87.96	99.75	104.34	88.9	1.00	0.80
MT851195	MT41918/TR450	104.72	58.38	102.94	99.80	109.63	95.1	1.18	0.94
MT860224	Lewis/Apex	113.28	63.45	114.39	95.88	94.70	96.3	1.10	0.84
MT860758	Gallatin/Belona	110.41	77.46	105.28	95.40	106.78	99.1	0.77	0.99
MT861596	Lewis/MT 41549	109.69	61.25	98.44	95.55	97.95	92.6	1.05	0.97
MT870070	Columbia/Lindy	108.88	77.59	98.16	87.87	117.57	98.0	0.80	0.74
MT870109	ID 76871/Gallatin	96.36	67.88	91.07	100.07	97.26	90.5	0.68	0.79
MT870120	Lindy/Martin	125.55	81.13	90.81	93.52	113.39	100.9	0.84	0.64
MT870246	Teton/Westbred 501	123.02	72.03	89.51	86.84	104.64	95.2	0.97	0.73
MT886601	MT 81143/Lewis	112.44	62.27	105.22	94.72	102.33	95.4	1.13	0.98
MT886609	MT 81143/Lewis	112.73	53.93	101.40	96.86	103.61	93.7	1.33	0.99
MT886610	MT 81143/Lewis	105.95	63.45	109.72	102.50	100.13	96.3	1.02	0.87
MT887103	MT 81535/Lewis	99.63	63.64	105.75	75.36	107.48	90.4	1.00	0.76
MT887509	MT 81619/Lewis	100.87	60.59	91.36	86.52	87.75	85.4	0.85	0.95
MT887510	MT 81619/Lewis	99.95	62.26	98.05	83.65	98.88	88.6	0.92	0.96

Table 3 (cont.)

1991 STATEWIDE BARLEY REPORT - IRRIGATED
YIELD (bu/ac)

ID	Pedigree	Kallspell High Moisture	Sidney	Huntley	Conrad	Bozeman	Avg	BYX	RSQ
MT888205	Steptoe/Chalky Glenn	105.05	75.43	99.68	88.76	99.26	93.6	0.67	0.95
MT889106	Apex/Lewis	95.72	82.01	109.19	91.68	109.19	97.6	0.52	0.58
MT890008	Fleet/Bowman	128.02	53.74	109.85	121.74	118.62	106.4	1.67	0.90
MT890040	Lewis/ID91019	108.13	70.63	97.70	93.55	97.34	93.5	0.80	0.97
MT890060	Morax/ID910719	104.70	92.70	88.83	85.88	85.96	91.6	0.08	0.03
MT890061	Morax/ID910719	112.37	74.22	82.12	79.22	94.00	88.4	0.66	0.55
MT890069	MT4126/Piroline	101.42	52.03	94.63	88.76	118.27	91.0	1.33	0.87
MT890087	MT81161/Harrington	96.92	64.69	90.62	87.02	96.87	87.2	0.77	0.99
MT890089	MT81161/Harrington	109.74	65.29	97.01	88.86	106.70	93.5	1.02	0.97
MT890111	Robust/ID910719	103.58	67.43	89.69	85.52	80.65	85.4	0.65	0.71
MT890123	Steptoe/Columbia	130.98	63.79	85.07	91.14	116.84	97.6	1.34	0.75
MT890128	Steptoe/Robust	132.17	69.48	104.01	79.12	114.69	98.9	1.30	0.76
MT890172	WA889278/Bowman	111.93	44.67	87.49	91.19	103.78	87.8	1.48	0.95
MTSU 247	Shonkin	90.07	40.10	57.66	88.78	79.72	71.3	0.98	0.60
ND 9866	Stark	103.23	71.69	110.62	100.40	101.16	97.4	0.80	0.84
NS 78054	Baronesse	110.42	75.59	109.95	106.94	111.96	103.0	0.87	0.94
NS010990	Ackermann NS010990	98.28	66.13	134.97	102.52	115.02	103.4	1.11	0.57
PI483127	Russell	110.23	71.92	97.28	79.81	110.83	94.0	0.91	0.78
PI491534	Gallatin	96.07	68.43	111.36	94.76	98.50	93.8	0.78	0.73
PI531228	Bearpaw TR440/	101.16	55.47	91.89	78.23	95.97	84.5	1.06	0.98
SK 76333	Harrington	116.59	55.79	100.39	83.50	106.49	92.6	1.36	0.96
SPEC91 1	Nancy	115.07	69.51	129.87	107.51	100.75	104.5	1.09	0.70
SPEC91 2	Meltan	106.32	59.86	118.29	113.69	116.54	102.9	1.28	0.80
*****	SITE MEAN *****	107.37	63.99	99.04	91.92	102.52	93.0	1.00	1.00

Table 4.

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ID	Pedigree	Test wt.	Plump	Height	Heading	Lodging
2B866513	Busch Agr 2B86-5113	50.6	78.2	33.5	175.3	9.5
82301593	82/2892 (Ultra/Apex)/NS	52.0	89.1	31.4	174.8	1.2
AC8425-3	Coors AC84-25-3	50.0	86.2	31.3	174.4	7.5
AC8430-7	Coors AC84-30-7	50.5	87.9	34.1	176.2	11.5
AC846615	Coors AC84-66-15	50.4	76.5	31.6	179.1	2.8
AC8611-1	Coors AC86-11-1	50.9	80.9	34.5	175.0	12.4
BA 1215	2B82-8529 (BA 8529)	52.6	80.6	35.8	174.5	6.4
BA 1603	BA 1603	50.1	80.5	36.8	170.7	9.8
BA 2601	M31/High Extract Comp. Bu	49.9	71.3	32.3	175.1	3.4
CI 9558	Piroline	51.0	69.9	36.9	173.1	32.8
CI 15229	Stepoe	46.1	81.2	34.5	169.8	13.9
CI 15478	Klages	49.6	66.3	36.4	176.4	21.8
CI 15514	Hector	50.8	74.5	36.8	173.5	32.2
CI 15773	Morex	49.1	78.4	38.4	170.5	20.2
CI 15856	Lewis	51.5	81.7	36.5	173.6	13.6
CI 15857	Clark	51.0	82.0	36.8	173.9	18.0
DH85-9-5	Coors DH85-9-5	51.5	84.0	29.2	178.9	1.8
DH8537-1	Coors DH85-37-1	53.4	81.9	29.9	171.0	3.0
MN 36	Robust	51.1	81.0	36.4	171.4	16.9
MN 52	Excel (Robust 2*3/Cree/	49.8	80.6	35.4	171.1	13.8
MT 83435	Clark/TR450	51.4	81.9	35.5	174.1	18.6
MT140523	Hector/Klages	50.5	78.3	35.8	173.0	12.5
MT851005	Clark/ID810264	50.1	83.8	37.6	173.1	32.2
MT851012	Clark/WA877178	49.5	79.4	36.5	174.1	31.2
MT851032	Harrington/Clark	50.9	79.2	36.9	175.4	21.8
MT851145	WA 890878/MT41238	50.2	80.4	38.3	173.0	32.2
MT851161	MT 41918/MT 41279	50.6	77.0	34.7	174.2	17.0
MT851195	MT41918/TR450	51.4	81.0	37.0	172.9	17.4
MT860224	Lewis/Apex	51.6	79.1	34.9	175.5	3.9
MT860756	Gallatin/Bellona	52.6	85.8	34.5	173.3	7.5
MT861596	Lewis/MT 41549	51.9	75.4	37.3	174.0	11.3
MT870070	Columbia/Lindy	47.3	82.6	34.1	171.9	9.9
MT870109	ID 76871/Gallatin	51.5	71.6	36.4	173.0	23.7
MT870120	Lindy/Martin	46.3	85.0	34.4	169.7	17.5
MT870246	Teton/Westbred 501	46.1	83.1	35.8	170.5	19.6
MT886601	MT 81143/Lewis	51.9	78.6	35.3	172.5	9.0
MT886609	MT 81143/Lewis	50.9	78.6	36.1	174.1	10.5
MT886610	MT 81143/Lewis	51.3	79.8	36.5	173.3	16.2
MT887103	MT 81535/Lewis	50.5	85.4	31.8	173.0	21.8
MT887509	MT 81619/Lewis	50.6	71.7	36.4	173.7	32.4
MT887510	MT 81619/Lewis	51.9	79.0	36.9	173.3	11.7

Table 4 (cont.)

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ID	Pedigree	Test wt.	Plump	Height	Heading	Lodging
MT888205	Steptoe/Chalky Glenn	45.7	73.8	37.2	169.4	14.4
MT889106	Apex/Lewis	52.2	88.2	35.6	168.8	11.5
MT890008	Fleet/Bowman	50.2	81.5	34.3	176.9	11.8
MT890040	Lewis/ID91019	49.3	77.3	34.5	170.7	5.1
MT890060	Morex/ID910719	49.5	79.6	35.9	169.8	11.3
MT890061	Morex/ID910719	49.0	81.6	38.1	169.8	3.7
MT890069	MT4126/Pirolina	51.1	77.3	35.4	173.6	18.1
MT890087	MT81161/Harrington	51.0	81.2	35.6	171.0	15.8
MT890089	MT81161/Harrington	51.5	84.9	32.7	171.1	5.1
MT890111	Robust/ID910719	49.6	70.8	37.4	170.6	13.2
MT890123	Steptoe/Columbia	45.3	77.5	37.7	173.1	22.2
MT890128	Steptoe/Robust	47.4	82.1	31.9	170.2	14.5
MT890172	WA889278/Bowman	50.0	71.8	37.5	175.3	27.1
MTSU 247	Shonkin	51.8	38.3	36.5	175.9	39.9
ND 9866	Stark	51.4	84.8	36.9	170.9	5.1
NS 78054	Baronesse	51.7	82.2	33.2	174.9	16.0
NS010990	Ackermann NS010990	52.1	84.8	26.1	175.9	0.1
PI483127	Russell	48.4	82.3	34.2	169.4	3.0
PI491534	Gallatin	52.2	78.5	36.3	173.2	13.4
PI531228	Bearpaw TR440/	49.6	76.3	36.2	175.6	22.1
SK 76333	Harrington	50.3	79.3	36.4	174.8	13.3
SPEC91 1	Nancy	50.7	89.2	30.1	176.3	6.9
SPEC91 2	Meltan	51.9	83.7	27.3	175.6	0.2
*****	SITE MEAN *****	50.4	79.3	35.0	173.3	14.4

¹ 0 = No lodging; 100=Complete lodging