

PROJECT TITLE:

Statewide Barley Performance

YEAR: 1997**LOCATIONS:**

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

PERSONNEL:

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

RESULTS:

The statewide (Intrastate) Barley Variety Nursery was grown at the seven locations listed above, with some locations having both irrigated and dryland nurseries.

Data for all traits averaged over all locations are summarized in Tables 1 and 3 for dryland and irrigated, respectively. Yield data for each location are presented in Tables 2 and 4. Dryland and irrigated yields were exceptionally good at all locations.

A good number of experimental lines yielded above the nursery average for both irrigated and dryland. Varieties with above average dryland yield statewide included Chinook, Baronesse, Gallatin and Stark. Chinook was agronomically superior to Harrington with similar malt quality. Above average yielders on irrigated included Logan, BA1202, Nebula, Stark, Foster, Stander and Baronesse. Nebula was the highest yielder at 7 bu over Baronesse. However, Nebula had a very low test weight for these conditions, and would likely be much lower in drier years.

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 Table 1. 1997 MONTANA SPRING BARLEY STATEWIDE DRYLAND SUMMARY

ID	Pedigree	Yield (bu/ac)	Test Weight (lb/bu)	Plump Percent	Heading Date	Plant Height (inches)	Prot
11231-11	Logan	87.5	52.9	90.1	179.0	27.8	11.1
2B914947	BA 2B91-4947	89.0	49.8	78.4	184.9	29.3	11.1
2B925550	Manley/B1202	86.7	51.4	82.9	184.6	27.7	11.1
2B945337	2B88-5133/Manley	81.7	50.7	83.2	181.0	27.4	12.1
96/1114	AC 96/1114	91.6	50.7	85.2	184.2	27.0	11.1
BA 1202	Busch Agr 1202	86.0	50.9	83.0	182.7	27.7	11.1
BZ594-19	WPB BZ 594-19	95.8	53.2	88.0	183.6	29.0	10.1
CI 15856	Lewis	87.6	52.8	82.3	182.6	28.1	11.1
GS 1750	GS 1750	92.4	50.2	78.1	184.6	25.0	10.6
H1851195	MT41918/TR450	88.8	51.8	89.3	181.3	28.9	11.7
H3860224	Lewis/Apex	89.5	52.7	90.6	183.7	28.8	11.4
MT886610	MT 81143/Lewis	88.3	52.3	81.2	182.6	28.8	11.0
MT910150	MT 81143/MT 83444	86.8	53.2	85.0	181.9	28.5	12.0
MT910189	ND 7293/Bearpaw	89.2	53.0	88.5	180.9	26.8	10.7
MT920041	MT 81143/MT 81161	87.4	52.2	85.3	182.2	28.3	11.4
MT920053	MT 81143/MT140523	90.0	53.0	87.0	183.0	28.5	11.2
MT920059	MT 81143/VD403582	90.7	53.1	85.4	183.1	29.5	11.4
MT920073	MT81161/MT83518	88.9	52.4	89.0	180.7	26.4	11.5
MT920161	MT 83424/MT 81161	89.1	52.5	88.6	182.3	28.0	11.9
MT920201	MT 83435/MT 81161	91.2	52.8	87.3	184.0	28.5	11.1
MT930169	MT851012/Bowman	86.9	51.2	75.0	183.7	29.3	10.8
MT930204	MT851195/Bowman	90.2	52.2	88.3	180.1	28.0	10.7
MT940013	Harrington/MT851177	83.9	51.0	79.2	181.1	26.8	11.4
MT940053	MT 81143/Blenheim	88.7	53.8	77.8	184.2	26.8	11.5
MT940071	MT 81143/Blenheim	89.8	53.4	88.5	182.3	26.4	12.3
MT940082	MT 81143/Blenheim	89.1	53.5	83.9	183.0	27.0	12.3
MT940087	MT 81143/Blenheim	85.9	52.9	89.4	184.5	27.9	11.7
MT940121	MT 81143/Gimpel	85.1	52.5	92.2	184.8	27.1	11.1
MT940177	MT860326/Clivia	88.0	52.0	86.8	183.2	28.0	11.2
MT940196	MT860326/Clivia	89.5	52.4	89.3	183.5	28.8	11.3
MT940214	MT860756/Lewis	93.7	52.5	87.2	181.3	27.4	10.7
MT940218	MT860756/Lewis	89.0	51.7	85.5	180.6	26.8	10.8
MT950031	Gallatin/Berolina	87.7	53.0	81.9	182.7	31.1	11.1
MT950035	Gallatin/Maltine	87.2	52.7	84.8	180.7	28.0	11.0
MT950064	MT 83518/Berolina	86.9	51.7	76.8	185.7	25.2	11.4
MT950081	MT 83533/Triumph	84.3	52.9	91.7	184.0	27.4	11.2

1997 MONTANA SPRING BARLEY STATEWIDE DRYLAND SUMMARY

ID	Pedigree	Yield (bu/ac)	Test Weight (lb/bu)	Plump Percent	Heading Date	Plant Height (inches)	Protein
MT950091	MT 83533/Triumph	83.5	51.7	73.3	184.8	26.1	11.9
MT950102	MT 83533/Triumph	86.8	52.1	89.3	183.9	26.9	11.4
MT950121	MT851161/Camilot	84.1	52.3	89.2	181.8	26.4	11.0
MT950151	MT860326/Stark	90.0	53.2	84.6	179.4	29.8	11.3
MT950154	MT860326/Stark	92.2	54.2	86.4	183.1	28.7	11.5
MT950155	MT860326/Stark	90.6	51.6	85.9	181.8	27.8	11.1
MT950156	MT860326/MT 81143//Har	88.4	51.5	83.6	181.2	26.7	11.3
MT950168	MT860756/Camilot	87.0	52.5	93.8	184.7	28.3	11.2
MT950170	MT860756/Camilot	90.7	52.8	90.8	182.5	24.9	11.4
MT950175	MT860756/Camilot	90.0	53.3	91.9	182.2	28.5	11.4
MT950185	MT860756/MT 83518	87.9	53.4	93.0	180.1	29.5	11.6
MT950186	MT860756/MT83533	95.1	54.2	88.7	180.9	27.9	10.7
MT950201	MT861596/MT860756	90.8	49.9	83.4	179.6	27.7	11.2
MTLB 2	Lewis/Baronesse #2	89.3	52.7	87.3	183.3	27.5	11.9
MTLB 5	Lewis/Baronesse #5	94.8	53.5	85.6	183.7	28.7	11.2
MTLB 6	Lewis/Baronesse #6	94.3	53.0	86.9	182.1	27.6	11.9
MTLB 13	Lewis/Baronesse #13	94.3	52.1	84.1	182.2	26.4	11.3
MTLB 30	Lewis/Baronesse #30	91.2	53.0	83.0	184.0	28.3	11.5
MTLB 32	Lewis/Baronesse #32	91.8	52.3	68.5	183.9	27.0	11.0
MTLB 48	Lewis/Baronesse #48	89.6	49.7	51.0	186.0	25.9	10.9
MTLB 57	Lewis/Baronesse #57	85.0	51.4	78.8	182.6	26.3	11.2
ND 9866	Stark	92.3	53.4	92.7	178.8	29.7	11.4
ND 11055	Foster	87.1	50.2	85.5	178.4	30.3	11.0
PI491534	Gallatin	90.2	53.0	82.7	180.9	28.8	10.9
PI564743	Stander	87.4	51.1	85.9	179.3	28.7	11.1
PI568246	Baronesse	99.4	52.1	84.7	183.8	26.2	10.8
PI591823	Chinook	89.2	52.7	81.4	183.3	27.7	11.6
SK 76333	Harrington	88.0	51.1	84.2	184.0	27.7	11.0
SITMEAN	SITE MEAN	89.1	52.3	84.7	182.5	27.8	11.3

Table 2. 1997 SPRING BARLEY STATEWIDE DRYLAND SUMMARY Yield (bu/ac)

ID	Pedigree	Havre	Sidney	Moccasin	Huntley	Conrad	Bozeman	AVG	BYX	RSQ
11231-11	Logan	76.2	67.9	64.8	96.6	90.4	128.9	87.5	1.13	0.98
2B914947	BA 2B91-4947	67.6	71.4	81.5	95.1	85.7	132.8	89.0	1.06	0.88
2B925550	Manley/B1202	71.7	63.4	76.4	92.0	87.1	129.9	86.7	1.11	0.96
2B945337	2B88-5133/Manley	69.7	58.6	69.2	84.8	78.3	129.6	81.7	1.16	0.93
96/1114	AC 96/1114	80.2	70.0	74.6	94.0	96.0	134.9	91.6	1.12	0.97
BA 1202	Busch Agr 1202	68.9	68.1	69.3	91.8	94.1	123.6	86.0	1.04	0.97
BZ594-19	WPB BZ 594-19	86.7	72.4	79.4	98.7	107.1	130.3	95.8	0.99	0.96
CI 15856	Lewis	80.0	67.7	66.9	98.8	91.2	121.2	87.6	0.98	0.97
GS 1750	GS 1750	73.4	57.2	84.1	104.2	105.9	129.8	92.4	1.19	0.91
H1851195	MT41918/TR450	73.8	71.8	79.6	95.8	88.1	123.4	88.8	0.90	0.95
H3860224	Lewis/Apex	75.2	68.5	75.0	93.7	95.5	129.3	89.5	1.06	0.98
MT886610	MT 81143/Lewis	71.1	65.4	71.7	99.6	97.1	125.2	88.3	1.10	0.99
MT910150	MT 81143/MT 83444	73.9	65.1	74.4	102.1	88.8	116.4	86.8	0.92	0.96
MT910189	ND 7293/Bearpaw	80.7	64.0	73.7	100.5	94.7	121.5	89.2	0.99	0.99
MT920041	MT 81143/MT 81161	75.2	71.0	77.4	96.6	86.1	118.1	87.4	0.83	0.97
MT920053	MT 81143/MT140523	79.0	67.4	76.5	98.0	94.6	124.5	90.0	0.98	1.00
MT920059	MT 81143/VD403582	78.5	62.8	74.8	113.7	93.2	121.0	90.7	1.04	0.89
MT920073	MT81161/MT83518	81.2	65.5	76.5	90.0	94.6	125.6	88.9	0.97	0.96
MT920161	MT 83424/MT 81161	79.7	68.8	76.4	92.5	94.0	123.0	89.1	0.92	0.99
MT920201	MT 83435/MT 81161	77.9	67.6	75.6	102.9	95.6	127.5	91.2	1.06	0.99
MT930169	MT851012/Bowman	75.5	67.0	70.4	103.0	92.7	113.1	86.9	0.88	0.94
MT930204	MT851195/Bowman	78.9	67.8	71.1	96.0	105.8	121.6	90.2	0.99	0.94
MT940013	Harrington/MT851177	79.1	66.9	59.5	94.5	94.7	108.6	83.9	0.84	0.88
MT940053	MT 81143/Blenheim	75.1	64.1	72.8	83.3	96.2	140.4	88.7	1.26	0.91
MT940071	MT 81143/Blenheim	76.2	67.2	75.0	93.6	92.0	134.5	89.8	1.14	0.97
MT940082	MT 81143/Blenheim	77.1	64.5	68.0	94.8	92.6	137.7	89.1	1.27	0.98
MT940087	MT 81143/Blenheim	75.8	66.7	69.4	90.7	85.6	127.1	85.9	1.05	0.97
MT940121	MT 81143/Gimpel	76.6	63.3	72.5	87.0	89.2	121.9	85.1	0.96	0.97
MT940177	MT860326/Clivia	78.9	69.3	69.1	99.6	93.1	118.2	88.0	0.92	0.98
MT940196	MT860326/Clivia	75.4	70.2	77.2	97.4	96.7	119.9	89.5	0.89	0.98
MT940214	MT860756/Lewis	76.3	77.6	80.0	107.5	100.9	119.8	93.7	0.84	0.92
MT940218	MT860756/Lewis	77.7	71.1	72.7	101.0	83.5	128.1	89.0	1.02	0.94
MT950031	Gallatin/Berolina	80.3	67.7	67.1	99.0	94.3	117.7	87.7	0.93	0.96
MT950035	Gallatin/Maltine	77.0	74.6	61.9	93.4	94.9	121.1	87.2	0.95	0.91
MT950064	MT 83518/Berolina	79.0	70.4	68.6	100.8	90.2	112.1	86.9	0.81	0.94
MT950081	MT 83533/Triumph	75.6	64.7	66.1	92.0	92.6	115.0	84.3	0.92	0.99
MT950091	MT 83533/Triumph	72.5	60.6	64.9	89.4	94.9	118.5	83.5	1.04	0.98
MT950102	MT 83533/Triumph	76.0	65.3	72.1	88.3	97.5	121.6	86.8	0.97	0.96
MT950121	MT851161/Camilot	75.1	65.1	73.8	90.8	86.9	112.8	84.1	0.81	1.00
MT950151	MT860326/Stark	82.8	62.8	72.5	94.9	104.9	122.1	90.0	1.01	0.93

1997 SPRING BARLEY STATEWIDE DRYLAND SUMMARY

Yield (bu/ac)

ID	Pedigree	Havre	Sidney	Moccasin	Huntley	Conrad	Bozeman	AVG	BYX	RSQ
MT950154	MT860326/Stark	79.7	73.8	82.4	92.3	94.3	130.9	92.2	0.95	0.93
MT950155	MT860326/Stark	78.1	68.4	67.7	102.2	101.4	125.5	90.6	1.09	0.97
MT950156	MT860326/MT 81143//Har	81.5	68.7	66.6	97.9	97.7	118.0	88.4	0.93	0.95
MT950168	MT860756/Camilot	78.8	73.6	64.0	88.0	92.2	125.5	87.0	0.98	0.91
MT950170	MT860756/Camilot	80.0	61.0	68.4	103.9	95.3	135.7	90.7	1.30	0.99
MT950175	MT860756/Camilot	78.8	74.4	79.1	97.9	94.4	115.3	90.0	0.74	0.99
MT950185	MT860756/MT 83518	79.1	73.4	67.6	95.6	95.4	116.6	87.9	0.85	0.95
MT950186	MT860756/MT83533	90.2	69.9	79.5	99.8	100.3	130.5	95.1	0.99	0.97
MT950201	MT861596/MT860756	81.8	62.4	69.5	103.8	95.1	132.4	90.8	1.22	0.99
MTLB 2	Lewis/Baronesse #2	74.3	66.4	75.8	98.5	92.0	128.5	89.3	1.08	0.99
MTLB 5	Lewis/Baronesse #5	81.2	72.0	75.8	112.6	102.5	124.6	94.8	1.01	0.95
MTLB 6	Lewis/Baronesse #6	84.1	69.1	76.3	104.1	100.2	131.8	94.3	1.09	0.99
MTLB 13	Lewis/Baronesse #13	78.8	68.3	82.8	101.1	98.7	135.7	94.3	1.13	0.98
MTLB 30	Lewis/Baronesse #30	82.0	67.6	81.4	95.3	93.3	127.6	91.2	0.96	0.96
MTLB 32	Lewis/Baronesse #32	84.6	76.9	75.0	104.2	88.4	121.5	91.8	0.83	0.93
MTLB 48	Lewis/Baronesse #48	74.3	67.4	85.2	103.9	91.4	115.6	89.6	0.81	0.88
MTLB 57	Lewis/Baronesse #57	82.5	63.0	69.6	89.2	95.9	109.9	85.0	0.79	0.91
ND 9866	Stark	77.2	70.4	68.3	107.4	99.5	131.1	92.3	1.17	0.97
ND 11055	Foster	73.7	55.8	77.9	91.8	94.7	128.6	87.1	1.15	0.95
PI491534	Gallatin	77.0	69.4	77.5	102.9	100.0	114.6	90.2	0.84	0.94
PI564743	Stander	74.0	50.4	78.8	101.3	88.9	131.2	87.4	1.27	0.94
PI568246	Baronesse	86.7	75.5	82.6	116.7	101.8	133.1	99.4	1.04	0.96
PI591823	Chinook	82.1	66.4	71.2	101.9	92.1	121.6	89.2	0.97	0.97
SK 76333	Harrington	73.5	74.9	73.8	103.2	89.2	113.6	88.0	0.78	0.91
SITMEAN	SITE MEAN	77.8	67.5	73.4	97.7	94.2	124.2	89.1	1.00	1.00

Table 3. 1997 MONTANA SPRING BARLEY STATEWIDE IRRIGATED SUMMARY

ID	Pedigree	Yield (bu/ac)	Test Weight (lb/bu)	Plump Percent	Heading Date	Plant Height (inches)	Prot
11231-11	Logan	113.4	51.9	91.9	178.9	33.8	11.0
2B914947	BA2B91-4947	117.3	48.8	81.7	183.9	32.3	9.9
2B925550	Manley/B1202	109.9	51.1	89.8	183.7	32.7	11.0
2B945337	2B88-5133/Manley	110.0	51.3	93.1	179.6	32.4	10.8
96/1114	AC 96/1114	114.9	49.5	88.3	183.7	31.5	10.7
BA 1202	Busch Agr 1202	113.4	50.3	91.1	182.5	33.0	10.7
BZ594-19	WPB BZ 594-19	123.8	52.3	94.1	182.4	32.1	10.0
C22	Coors C22	109.5	49.9	89.2	186.3	28.7	10.5
C93 1	Galena	107.8	50.9	86.6	185.7	29.5	10.4
CI 15856	Lewis	110.4	52.8	91.0	182.0	33.6	11.3
DA592-47	Nebula	126.9	46.7	86.5	184.3	26.5	10.3
GS 1750	GS 1750	115.0	50.0	84.6	184.9	27.2	9.8
H1851195	MT41918/TR450	117.7	51.2	91.8	181.1	33.2	11.5
H3860224	Lewis/Apex	112.7	52.0	91.5	183.2	31.4	10.7
MOR 14	Moravian 14	106.6	53.1	88.7	177.3	26.6	10.9
MT886610	MT 81143/Lewis	114.9	52.3	89.3	181.3	33.0	10.7
MT910150	MT 81143/MT 83444	107.7	53.0	91.2	180.8	30.4	11.7
MT910189	ND 7293/Bearpaw	111.0	51.7	92.1	180.2	31.0	10.4
MT920041	MT 81143/MT 81161	106.2	51.7	92.3	181.2	32.1	11.3
MT920053	MT 81143/MT140523	108.3	52.1	88.3	182.4	33.0	11.3
MT920059	MT 81143/VD403582	110.1	53.0	91.9	182.4	35.0	11.1
MT920073	MT 81161/MT83518	108.5	52.6	93.7	180.6	29.6	11.4
MT920161	MT 83424/MT 81161	108.7	52.3	90.2	181.4	32.7	11.6
MT920201	MT 83435/MT 81161	108.6	51.4	89.1	182.8	32.8	10.9
MT930169	MT851012/Bowman	104.3	50.5	78.5	183.4	33.4	10.4
MT930204	MT851195/Bowman	113.4	51.7	92.3	179.8	33.2	10.4
MT940013	Harrington/MT851177	101.7	50.3	86.5	181.3	29.8	11.0
MT940053	MT 81143/Blenheim	116.7	53.8	86.0	184.0	31.8	11.0
MT940071	MT 81143/Blenheim	104.7	53.2	92.4	180.7	30.4	12.0
MT940082	MT 81143/Blenheim	111.7	53.6	92.7	181.4	31.0	12.2
MT940087	MT 81143/Blenheim	107.6	53.0	94.0	183.6	32.7	11.2
MT940121	MT 81143/GimpelMT	112.5	52.0	93.6	182.6	31.4	10.8
MT940177	MT860326/Clivia	107.6	51.0	87.9	182.0	31.2	11.0
MT940196	MT860326/Clivia	108.7	51.5	90.9	182.8	31.0	11.1
MT940214	MT860756/Lewis	113.9	52.1	90.7	180.2	30.4	10.2
MT940218	MT860756/Lewis	114.9	52.5	93.8	178.6	31.0	10.6
MT950064	MT 83518/Berolina	106.6	50.6	73.8	185.8	28.2	10.8
MT950081	MT 83533/Triumph	109.5	52.2	93.3	182.6	31.0	10.7
MT950091	MT 83533/Triumph	106.4	51.8	87.7	183.3	29.6	10.5

1997 MONTANA SPRING BARLEY STATEWIDE IRRIGATED SUMMARY

ID	Pedigree	Yield (bu/ac)	Test Weight (lb/bu)	Plump Percent	Heading Date	Plant Height (inches)	Protein
MT950102	MT 83533/Triumph	110.0	52.0	92.6	182.9	29.6	10.8
MT950121	MT851161/Camilot	106.9	51.4	94.7	180.8	30.7	11.4
MT950151	MT860326/Stark	107.7	52.1	90.1	178.8	32.4	11.2
MT950154	MT860326/Stark	109.6	53.4	91.1	181.7	33.6	10.8
MT950155	MT860326/Stark	111.5	51.3	91.0	180.6	29.1	10.7
MT950156	MT860326/MT 81143//Har	111.0	51.3	89.8	180.3	30.7	10.6
MT950168	MT860756/Camilot	100.8	50.7	89.2	184.7	30.6	10.7
MT950170	MT860756/Camilot	108.5	52.0	91.9	180.0	28.2	10.8
MT950175	MT860756/Camilot	109.2	53.0	90.8	181.5	31.0	10.9
MT950186	MT860756/MT83533	116.2	53.7	93.3	181.1	31.7	10.5
MTLB 2	Lewis/Baronesse #2	113.5	52.5	93.0	181.3	30.9	11.5
MTLB 5	Lewis/Baronesse #5	112.9	52.5	89.4	183.0	32.7	10.9
MTLB 6	Lewis/Baronesse #6	116.3	52.1	91.0	180.7	30.0	11.3
MTLB 13	Lewis/Baronesse #13	111.1	51.1	87.6	182.0	30.1	10.8
MTLB 30	Lewis/Baronesse #30	112.1	52.5	91.8	183.5	32.1	10.8
MTLB 32	Lewis/Baronesse #32	117.0	51.9	80.7	182.8	30.4	10.4
MTLB 48	Lewis/Baronesse #48	104.8	49.1	70.6	185.3	30.3	10.7
MTLB 57	Lewis/Baronesse #57	108.9	52.0	88.8	180.6	30.0	11.1
ND 9866	Stark	119.0	52.1	93.8	178.3	34.9	11.2
ND 11055	Foster	117.0	50.1	93.3	178.3	34.7	10.8
PI491534	Gallatin	108.2	52.7	88.5	180.8	33.1	10.4
PI564743	Stander	121.4	51.0	92.9	179.2	34.8	10.5
PI568246	Baronesse	121.2	52.1	90.7	182.9	30.1	10.3
PI591823	Chinook	107.2	51.0	83.2	181.9	31.2	11.6
SK 76333	Harrington	106.8	50.2	85.7	182.9	33.0	10.7
SITMEAN	SITE MEAN	111.2	51.7	89.5	181.9	31.2	10.9

Table 4. 1997 SPRING BARLEY STATEWIDE IRRIGATED SUMMARY Yield (bu/ac)

ID	Pedigree	Kalispell	Sidney	Conrad	Bozeman	AVG	BYX	RSQ
11231-11	Logan	111.3	99.8	107.6	135.0	113.4	0.80	0.57
2B914947	BA2B91-4947	98.6	122.6	111.4	136.6	117.3	1.09	0.92
2B925550	Manley/B1202	95.2	104.1	107.0	133.6	109.9	1.14	0.97
2B945337	2B88-5133/Manley	105.5	106.0	101.3	127.3	110.0	0.72	0.77
96/1114	AC 96/1114	110.0	99.9	121.5	128.3	114.9	0.54	0.38
BA 1202	Busch Agr 1202	101.4	110.5	110.4	131.1	113.4	0.88	0.99
BZ594-19	WPB BZ 594-19	113.3	120.1	119.2	142.4	123.8	0.88	0.96
C22	Coors C22	99.8	95.9	116.2	125.9	109.5	0.75	0.58
C93 1	Galena	93.4	103.4	104.5	129.9	107.8	1.08	0.98
CI 15856	Lewis	100.0	107.4	104.4	129.7	110.4	0.91	0.96
DA592-47	Nebula	121.2	111.1	139.9	135.5	126.9	0.37	0.16
GS 1750	GS 1750	104.1	98.7	124.7	132.5	115.0	0.80	0.50
H1851195	MT41918/TR450	106.5	120.0	108.2	136.0	117.7	0.90	0.89
H3860224	Lewis/Apex	86.3	106.0	119.9	138.5	112.7	1.43	0.86
MOR 14	Moravian 14	81.0	108.4	103.5	133.3	106.6	1.48	0.97
MT886610	MT 81143/Lewis	98.3	116.7	105.6	138.9	114.9	1.22	0.96
MT910150	MT 81143/MT 83444	84.7	110.4	102.7	133.2	107.7	1.39	0.98
MT910189	ND 7293/Bearpaw	99.9	117.2	99.3	127.5	111.0	0.85	0.77
MT920041	MT 81143/MT 81161	94.9	101.5	98.1	130.5	106.2	1.10	0.92
MT920053	MT 81143/MT140523	88.5	113.7	106.7	124.3	108.3	0.99	0.88
MT920059	MT 81143/VD403582	89.1	111.1	108.1	132.1	110.1	1.22	0.98
MT920073	MT 81161/MT83518	94.4	108.5	100.0	131.1	108.5	1.11	0.97
MT920161	MT 83424/MT 81161	93.9	108.9	102.1	130.0	108.7	1.07	0.98
MT920201	MT 83435/MT 81161	91.6	97.7	109.7	135.5	108.6	1.28	0.89
MT930169	MT851012/Bowman	102.8	101.2	100.2	113.0	104.3	0.34	0.69
MT930204	MT851195/Bowman	104.6	110.2	110.0	128.7	113.4	0.73	0.97
MT940013	Harrington/MT851177	77.3	105.6	102.6	121.3	101.7	1.20	0.88
MT940053	MT 81143/Blenheim	89.1	119.0	114.1	144.7	116.7	1.57	0.97
MT940071	MT 81143/Blenheim	84.5	105.1	94.7	134.5	104.7	1.49	0.98
MT940082	MT 81143/Blenheim	96.0	114.9	104.2	131.5	111.7	1.04	0.94
MT940087	MT 81143/Blenheim	94.6	111.2	97.9	126.6	107.6	0.97	0.90
MT940121	MT 81143/Gimpel	92.3	110.1	109.4	138.0	112.5	1.32	1.00
MT940177	MT860326/Clivia	82.3	112.8	105.4	130.0	107.6	1.33	0.92
MT940196	MT860326/Clivia	93.2	101.4	97.0	123.0	103.7	0.91	0.95
MT940214	MT860756/Lewis	104.2	104.7	112.2	134.5	113.9	0.92	0.86
MT940218	MT860756/Lewis	102.5	116.9	103.9	136.3	114.9	1.04	0.90
MT950064	MT 83518/Berolina	88.2	114.4	109.0	114.7	106.6	0.67	0.59
MT950081	MT 83533/Triumph	99.7	105.8	109.5	123.0	109.5	0.68	0.96
MT950091	MT 83533/Triumph	94.3	102.2	104.3	124.6	106.4	0.89	0.97
MT950102	MT 83533/Triumph	94.7	103.9	116.3	124.8	110.0	0.82	0.77
MT950121	MT851161/Camilot	91.0	119.0	96.2	121.4	106.9	0.88	0.66
MT950151	MT860326/Stark	86.9	118.3	95.9	129.7	107.7	1.25	0.82

1997 SPRING BARLEY STATEWIDE IRRIGATED SUMMARY

Yield (bu/ac)

ID	Pedigree	Kalispell	Sidney	Conrad	Bozeman	AVG	BYX	RSQ
MT950154	MT860326/Stark	86.9	105.4	110.7	135.4	109.6	1.37	0.96
MT950155	MT860326/Stark	91.6	115.1	110.5	128.7	111.5	1.03	0.92
MT950156	MT860326/MT81143//Har	90.1	109.2	110.8	134.0	111.0	1.24	0.97
MT950168	MT860756/Camilot	90.6	90.8	101.4	120.3	100.8	0.89	0.82
MT950170	MT860756/Camilot	92.2	106.5	100.7	134.7	108.5	1.28	0.98
MT950175	MT860756/Camilot	100.5	106.9	102.8	126.6	109.2	0.81	0.94
MT950186	MT860756/MT83533	109.3	111.2	114.0	130.1	116.2	0.63	0.90
MTLB 2	Lewis/Baronesse #2	97.5	103.5	113.6	139.4	113.5	1.23	0.90
MTLB 5	Lewis/Baronesse #5	89.2	116.0	118.7	127.7	112.9	1.00	0.75
MTLB 6	Lewis/Baronesse #6	96.2	115.0	113.8	140.3	116.3	1.27	1.00
MTLB 13	Lewis/Baronesse #13	80.9	114.0	113.7	135.9	111.1	1.50	0.89
MTLB 30	Lewis/Baronesse #30	89.4	107.7	116.5	134.9	112.1	1.26	0.90
MTLB 32	Lewis/Baronesse #32	104.8	117.4	112.6	133.2	117.0	0.83	0.99
MTLB 48	Lewis/Baronesse #48	86.5	105.1	106.5	121.2	104.8	0.95	0.91
MTLB 57	Lewis/Baronesse #57	92.1	117.2	101.1	125.4	108.9	0.96	0.82
ND 9866	Stark	106.8	118.7	113.5	136.8	119.0	0.89	0.98
ND 11055	Foster	108.3	126.3	98.7	134.8	117.0	0.86	0.56
PI491534	Gallatin	91.8	109.0	108.9	122.9	108.2	0.86	0.93
PI564743	Stander	114.4	113.1	112.3	145.8	121.4	1.02	0.80
PI568246	Baronesse	109.0	117.1	118.8	139.7	121.2	0.91	0.98
PI591823	Chinook	104.5	114.3	89.3	120.6	107.2	0.58	0.37
SK 76333	Harrington	100.1	118.4	90.3	118.5	106.8	0.61	0.38
SITEMEAN	SITE MEAN	96.5	109.9	107.7	130.7	111.2	1.00	1.00