

PROJECT TITLE:

Statewide Barley Performance

YEAR: 1999

LOCATIONS:

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: Ken Kephart
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. Rainfall was lower than normal at most locations, but this was compensated by cooler than normal temperatures. Consequently, yield, test weight and plump percent were exceptionally high.

Yield, test weight, kernel plump, plant height, heading date and protein data are presented in the following Tables.

Baroness, Valier and many of the experimental lines yielded higher than the mean over all dryland locations. The same was true for irrigated, except Valier was slightly below mean. Some of the experimental lines equaled or surpassed the yield of Baroness.

294

1999 SPRING BARLEY STATEWIDE DRYLAND OVERALL SUMMARY

ID	Pedigree	YIELD bu/ac	TEST WEIGHT lb/bu	PLUMP PERCENT	HEADING DATE	PLANT HEIGHT inches	PROTEIN PERCENT
11231-11	Logan	74.6	52.4	85.5	172.5	29.5	13.5
2B914947	Merit	74.6	47.9	67.1	177.9	29.5	13.8
96/1114	AC 96/1114	78.1	48.1	68.0	177.7	27.3	13.7
B2L20-36	BCL20/MOREX BC2F4	71.8	48.4	61.6	171.4	31.8	13.4
B2L20-42	BCL20/MOREX BC2F4	72.6	48.4	69.3	171.4	33.7	13.1
B2L20-46	BCL20/MOREX BC2F4	68.1	48.3	59.0	171.4	33.6	13.7
B2I20-22	BCL20/MOREX BC2F4	72.0	48.6	56.4	171.7	32.6	13.3
BA 1202	Busch Agr 1202	72.9	48.4	65.5	176.8	29.3	14.1
BZ594-19	WPB Xena	74.7	50.3	73.8	177.2	27.7	14.0
BZ594-35	WPB BZ594-35	68.4	59.0	51.5	174.1	25.3	15.5
C 22	Moravian 22	75.8	48.4	64.3	179.2	24.0	13.8
C 37	Coors C37	74.6	49.6	66.9	179.5	23.3	12.3
CI 15514	Hector	77.9	51.3	72.4	174.8	29.9	13.7
CI 15773	Morex	66.4	48.7	53.4	171.9	35.2	13.5
CI 15856	Lewis	78.0	52.0	74.0	175.1	29.7	13.8
GS 1750	GS 1750	82.8	50.2	71.4	176.6	30.4	12.6
H1851195	MT41918/TR450	77.1	51.5	78.8	174.9	31.2	14.1
H3860224	Lewis/Apex	80.7	50.4	74.2	177.6	29.4	13.7
JERSEY	Jersey	73.3	50.0	59.9	177.5	26.1	14.0
MT910189	ND 7293/Bearpaw	77.7	52.1	79.1	173.0	29.0	13.0
MT920053	MT 81143/MT140523	80.5	52.0	76.7	175.1	30.4	13.4
MT920059	MT 81143/VD403582	77.5	52.4	75.9	175.7	30.1	13.7
MT920073	MT811613/MT 83518	77.7	51.1	76.0	173.3	28.3	13.9
MT940053	MT 81143/Blenheim	77.5	52.0	63.9	176.5	27.9	13.5
MT940214	MT860756/Lewis	82.4	51.1	74.0	174.6	28.6	13.0
MT950186	MT860756/MT83533	78.2	52.8	73.5	175.6	30.2	13.0
MT960045	Cheri/Lewis	80.0	50.7	58.9	180.1	24.4	13.3
MT960082	Harrington/Camilot//Lewis	77.6	51.4	76.2	176.9	29.3	14.0
MT960099	Manley/Baronesse	85.1	49.7	60.0	177.5	26.8	13.2
MT960101	Manley/Baronesse	82.6	49.9	58.1	177.8	27.8	13.2
MT960170	MT870246/ID 71966	76.1	45.7	50.7	172.0	29.5	11.5
MT960198	MT886610/MT140523	80.2	51.6	70.2	174.7	28.6	13.6
MT960222	Stark/Baronesse	80.9	50.6	71.0	177.0	30.2	13.2
MT960225	Stark/Baronesse	85.1	51.9	71.1	175.5	31.2	12.2
MT960226	Stark/Baronesse	85.3	50.9	79.7	175.0	30.0	12.9
MT960228	Stark/Baronesse	83.2	51.2	70.7	177.0	28.3	12.8
MT970019	Baronesse/MT860756	78.6	51.7	80.4	175.5	28.7	13.1
MT970026	Baronesse/MT860756	78.9	51.7	77.6	174.7	30.8	12.8
MT970053	Baronesse/ND 11120	80.6	50.5	77.3	174.5	31.3	12.9
MT970086	Dominique/Stark	79.7	52.6	78.5	176.7	28.9	13.4
MT970107	Harrington/Stark	81.2	52.2	75.5	175.5	31.4	13.3
MT970110	Klages/Baronesse	77.4	51.0	68.7	177.6	30.1	13.6
MT970116	Klages/Baronesse	81.9	52.2	77.1	174.5	32.7	13.1

1999 SPRING BARLEY STATEWIDE DRYLAND OVERALL SUMMARY

297

ID	Pedigree	YIELD bu/ac	TEST WEIGHT lb/bu	PLUMP PERCENT	HEADING DATE	PLANT HEIGHT inches	PROTEIN PERCENT
MT970129	MT851195/Stark	78.0	50.6	60.9	178.1	27.4	13.2
MT970148	MT861596/ND 11120	84.8	50.2	73.8	176.0	26.4	12.7
MT970177	MT887103/MT890070	80.4	51.9	79.1	174.8	31.2	13.4
MT970196	MT887509/ND 11120	82.6	52.0	76.5	175.6	30.2	12.7
MT970207	MT890008/Dominique	81.3	51.6	77.7	175.6	29.0	12.9
MT970214	MT890008/MT860326	80.8	51.2	75.0	175.5	30.6	13.3
MT970218	MT890008/MT860326	77.5	51.3	79.0	173.8	31.6	13.2
MT970228	MT890021/Stark	81.0	50.5	72.8	176.4	28.5	13.5
MT970229	MT890021/Stark	78.4	52.2	79.0	177.1	28.1	13.7
MT970231	MT890021/Stark	78.9	51.2	75.7	174.8	31.1	13.2
MT970245	MT900071/MT890070	79.3	49.9	72.1	172.8	31.2	13.1
MT970248	MT900071/ND 11120	78.6	51.9	96.7	173.7	31.8	13.5
MTLB 5	Lewis/Baronesse #5	79.4	51.0	65.1	177.2	29.0	13.6
MTLB 6	Lewis/Baronesse #6	81.5	51.3	73.1	175.0	28.9	13.6
MTLB 13	Lewis/Baronesse #13	82.2	50.3	68.5	176.4	28.0	13.3
MTLB 30	Valier	79.0	50.9	67.3	177.2	29.7	13.4
ND 9866	Stark	77.7	52.7	88.3	172.8	31.7	13.3
PI491534	Gallatin	77.5	51.9	71.4	173.7	30.0	13.7
PI568246	Baronesse	84.6	50.4	70.8	177.1	27.5	12.9
PI591823	Chinook	76.5	52.0	74.4	175.7	30.5	13.7
SK 76333	Harrington	79.7	49.2	67.1	176.7	29.4	13.5
SITMEAN	SITE MEAN	78.4	50.9	71.2	175.5	29.5	13.40

298

1999 SPRING BARLEY STATEWIDE DRYLAND SUMMARY

YIELD (bu/ac)

ID	Pedigree	Havre	Sidney	Moccasin	Huntley	Conrad	Bozeman	AVG	BYX	RSQ
11232-11	Logan	66.1	82.8	74.4	69.3	72.1	83.0	74.6	0.42	0.39
2B914947	Merit	71.9	90.1	72.2	53.8	91.9	67.4	74.6	1.23	0.78
96/1114	AC 96/1114	84.0	91.2	67.5	61.2	85.8	79.2	78.1	0.84	0.57
B2L20-36	BCL20/MOREX BC2F4	55.1	78.0	66.6	65.3	86.3	79.6	71.8	0.97	0.77
B2L20-42	BCL20/MOREX BC2F4	46.9	92.9	69.5	68.7	80.1	77.4	72.6	1.16	0.61
B2L20-46	BCL20/MOREX BC2F4	49.9	75.2	61.3	63.5	83.9	74.4	68.1	1.00	0.73
B2I20-22	BCL20/MOREX BC2F4	56.1	72.9	74.7	65.6	88.1	74.3	72.0	0.79	0.59
BA 1202	Busch Agr 1202	76.8	86.4	65.0	56.2	84.5	68.3	72.9	0.91	0.64
BZ594-19	WPB Xena	65.2	85.8	66.7	60.1	89.3	81.0	74.7	1.16	0.97
BZ594-35	WPB BZ594-35	61.7	78.5	56.3	65.4	70.9	77.5	68.4	0.59	0.48
C 22	Moravian 22	79.0	80.7	72.3	57.3	90.7	74.5	75.8	0.85	0.63
C 37	Coors C37	76.1	81.0	69.0	56.6	88.7	76.5	74.6	0.91	0.74
CI 15514	Hector	69.0	94.2	69.8	66.5	89.7	78.2	77.9	1.09	0.94
CI 15773	Morex	43.1	84.7	63.6	62.6	72.4	71.8	66.4	1.04	0.60
CI 15856	Lewis	64.9	93.5	77.3	63.1	85.0	84.2	78.0	1.09	0.88
GS 1750	GS 1750	75.8	91.9	83.5	65.8	96.9	83.0	82.8	1.02	0.90
H1851195	MT41918/TR450	65.4	90.8	77.6	63.5	84.5	80.9	77.1	0.99	0.90
H3860224	Lewis/Apex	76.1	92.3	75.3	58.9	105.0	76.7	80.7	1.40	0.83
JERSEY	Jersey	78.0	88.3	60.4	53.7	87.8	71.4	73.3	1.12	0.66
MT910189	ND 7293/Bearpaw	57.8	85.2	71.9	72.1	97.9	81.1	77.7	1.14	0.74
MT920053	MT 81143/MT140523	71.9	92.4	71.4	70.0	93.6	83.7	80.5	1.02	0.94
MT920059	MT 81143/VD403582	67.3	97.4	70.6	64.5	84.7	80.5	77.5	1.12	0.87
MT920073	MT811613/MT 83518	71.8	87.8	82.8	66.4	86.6	71.0	77.7	0.70	0.63
MT940053	MT 81143/Blenhelm	75.7	82.5	71.9	61.0	96.4	77.4	77.5	1.00	0.77
MT940214	MT860756/Lewis	67.7	90.7	82.1	65.3	104.0	84.7	82.4	1.32	0.89
MT950186	MT860756/MT83533	65.9	93.9	71.1	64.9	90.0	83.6	78.2	1.20	0.97
MT960045	Cheri/Lewis	81.4	87.1	74.0	60.8	101.8	75.1	80.0	1.09	0.67
MT960082	Harrington/Camilot/Lewis	65.3	89.1	67.3	67.2	93.2	83.5	77.6	1.15	0.92
MT960099	Manley/Baronesse	80.6	100.8	84.2	64.1	96.2	84.6	85.1	1.15	0.85
MT960101	Manley/Baronesse	79.2	103.1	79.6	60.9	90.0	82.8	82.6	1.19	0.78
MT960170	MT870246/ID 71966	61.8	86.7	76.8	57.9	98.5	75.1	76.1	1.38	0.89
MT960198	MT886610/MT140523	66.4	94.0	81.2	63.8	94.8	81.1	80.2	1.23	0.94
MT960222	Stark/Baronesse	78.4	89.6	80.9	60.5	96.5	79.3	80.9	1.05	0.79
MT960225	Stark/Baronesse	74.3	85.5	84.9	76.6	97.8	91.6	85.1	0.71	0.69
MT960226	Stark/Baronesse	74.8	92.8	80.4	72.0	104.2	87.5	85.3	1.12	0.92
MT960228	Stark/Baronesse	80.6	97.6	75.1	69.0	98.2	78.7	83.2	1.06	0.83
MT970019	Baronesse/MT860756	73.2	85.1	82.7	69.2	83.9	77.3	78.6	0.53	0.72
MT970026	Baronesse/MT860756	64.8	84.6	78.3	68.8	91.5	85.6	78.9	0.92	0.84
MT970053	Baronesse/ND 11120	71.7	89.6	74.3	71.5	85.1	91.4	80.6	0.76	0.74
MT970086	Dominique/Stark	70.5	80.5	78.5	71.1	92.6	84.7	79.7	0.70	0.75
MT970107	Harrington/Stark	69.4	95.9	82.9	72.2	83.5	83.6	81.2	0.76	0.69
MT970110	Klages/Baronesse	70.7	85.7	66.7	62.6	95.6	83.2	77.4	1.16	0.89

1999 SPRING BARLEY STATEWIDE DRYLAND SUMMARY

YIELD (bu/ac)

299

ID	Pedigree	Havre	Sidney	Moccasin	Huntley	Conrad	Bozeman	AVG	BYX	RSQ
MT970116	Klages/Baronesse	70.1	91.5	77.3	73.7	92.1	86.6	81.9	0.88	0.93
MT970129	MT851195/Stark	77.6	84.6	73.9	59.5	93.2	79.5	78.0	0.97	0.79
MT970148	MT861596/ND 11120	73.0	95.2	81.4	69.8	101.2	88.4	84.8	1.19	0.98
MT970177	MT887103/MT890070	60.6	88.6	80.3	70.5	92.8	89.6	80.4	1.06	0.76
MT970196	MT887509/ND 11120	70.0	95.5	81.9	65.0	97.9	85.2	82.6	1.26	0.97
MT970207	MT890008/Dominique	69.8	86.4	79.9	72.3	90.1	89.3	81.3	0.76	0.81
MT970214	MT890008/MT860326	74.9	81.7	78.0	72.9	91.5	85.5	80.8	0.59	0.77
MT970218	MT890008/MT860326	58.1	82.7	67.0	72.3	98.2	86.5	77.5	1.15	0.68
MT970228	MT890021/Stark	77.6	92.1	71.1	65.6	96.2	83.6	81.0	1.09	0.90
MT970229	MT890021/Stark	81.6	92.5	68.9	61.3	84.3	81.7	78.4	0.87	0.64
MT970231	MT890021/Stark	69.6	94.2	71.6	68.0	87.8	82.3	78.9	1.01	0.93
MT970245	MT900071/MT890070	67.5	94.2	78.0	65.4	87.3	83.2	79.3	1.04	0.92
MT970248	MT900071/ND 11120	63.9	95.2	75.4	68.5	84.0	84.9	78.6	1.01	0.81
MTLB 5	Lewis/Baronesse #5	75.2	89.1	72.9	68.2	90.2	80.9	79.4	0.84	0.95
MTLB 6	Lewis/Baronesse # 6	68.7	93.5	74.8	74.4	88.8	88.6	81.5	0.88	0.82
MTLB 13	Lewis/Baronesse #13	77.4	92.2	82.2	69.5	89.8	82.1	82.2	0.76	0.90
MTLB 30	Valier	71.0	98.9	67.0	62.7	95.0	79.3	79.0	1.39	0.92
ND 9866	Stark	59.5	89.2	80.5	66.1	82.9	88.2	77.7	0.97	0.68
PI491534	Gallatin	63.8	89.1	72.8	68.5	87.6	82.9	77.5	0.97	0.91
PI568246	Baronesse	85.3	98.5	77.2	67.8	91.3	87.5	84.6	0.90	0.74
PI591823	Chinook	59.4	91.6	69.3	69.1	88.1	81.3	76.5	1.12	0.85
SK 76333	Harrington	71.8	98.5	70.6	64.2	93.8	79.2	79.7	1.28	0.93
SITEMEAN	SITE MEAN	69.5	89.4	74.1	65.7	90.5	81.3	78.4	1.00	1.00
C.V.	C.V.	5.46	8.68	7.64	7.95	7.71	4.26	--	--	--
L.S.D.	L.S.D. (.05)	6.58	13.13	9.90	8.81	12.08	5.95	4.52	---	---

300
1999 SPRING BARLEY STATEWIDE IRRIGATED OVERALL SUMMARY

ID	Pedigree	YIELD bu/ac	TEST WEIGHT lb/bu	PLUMP PERCENT	HEADING DATE	PLANT HEIGHT inches	PROTEIN PERCENT
11231-11	Logan	122.5	51.8	89.4	172.6	35.9	13.1
2B914947	Merit	119.5	50.1	88.2	176.9	36.0	13.0
96/1114	AC 96/1114	131.3	49.9	88.0	178.4	33.8	13.0
BA 1202	Busch Agr 1202	116.8	50.0	84.2	178.0	36.1	13.0
BZ594-19	WPB Xena	121.7	51.1	88.9	176.2	35.4	13.9
BZ594-35	WPB BZ594-35	110.1	59.2	76.5	173.9	31.9	14.4
C 22	Moravian 22	123.1	50.0	86.9	181.4	32.3	12.8
C 37	Coors C37	125.8	51.9	87.0	180.1	31.2	13.0
CI 15773	Morex	101.6	49.3	80.5	172.7	41.7	13.6
CI 15856	Lewis	116.6	52.2	83.5	174.5	36.7	13.7
GS 1750	GS 1750	132.8	51.9	88.8	177.3	36.8	12.4
H1851195	MT41918/TR450	118.0	51.2	88.7	175.2	37.5	14.2
H3860224	Lewis/Apex	121.7	52.0	86.9	178.6	36.0	13.3
JERSEY	Jersey	122.6	51.3	83.7	179.4	34.3	12.5
MT910189	ND 7293/Bearpaw	116.3	52.5	88.5	172.8	34.9	12.9
MT920053	MT 81143/MT140523	119.3	52.2	83.9	175.4	36.6	13.7
MT920059	MT 81143/VD403582	117.6	52.5	83.8	176.1	36.6	13.4
MT920073	MT811613/MT 83518	123.0	52.0	90.9	173.4	34.9	13.6
MT940053	MT 81143/Blenheim	121.5	53.1	86.6	178.4	34.9	13.1
MT940082	MT 81143/Blenheim	124.0	53.5	88.8	175.4	34.2	13.8
MT940214	MT860756/Lewis	121.7	52.1	89.0	175.7	35.2	12.4
MT950186	MT860756/MT83533	125.0	52.7	84.6	176.9	37.6	13.0
MT960045	Cheri/Lewis	125.5	52.8	82.0	180.4	33.0	12.8
MT960082	Harrington/Camilot/Lewis	114.7	52.1	86.5	177.8	37.2	14.0
MT960099	Manley/Baronesse	134.0	52.0	78.7	178.4	32.6	13.0
MT960100	Manley/Baronesse	134.0	52.8	82.9	178.3	33.7	12.9
MT960101	Manley/Baronesse	126.9	51.1	77.8	178.5	35.1	12.9
MT960198	MT886610/MT140523	122.7	52.7	86.1	174.9	34.3	13.5
MT960222	Stark/Baronesse	129.1	52.6	86.6	178.2	36.4	12.7
MT960225	Stark/Baronesse	129.7	52.7	83.9	176.8	36.9	11.8
MT960226	Stark/Baronesse	128.7	52.5	87.2	176.3	35.1	12.8
MT960228	Stark/Baronesse	130.6	53.2	85.9	177.6	35.4	12.4
MT970019	Baronesse/MT860756	120.3	53.2	89.7	176.3	35.3	13.3
MT970026	Baronesse/MT860756	125.3	53.5	88.7	176.2	36.9	13.3
MT970053	Baronesse/ND 11120	121.6	52.4	90.9	176.0	36.9	12.8
MT970086	Dominique/Stark	120.8	54.0	91.5	177.8	37.0	13.3
MT970105	Harrington/Stark	114.5	52.8	88.5	173.6	37.6	13.7
MT970107	Harrington/Stark	120.2	52.9	87.4	176.5	36.8	13.0
MT970110	Klages/Baronesse	127.4	52.9	86.6	178.3	36.9	13.3
MT970116	Klages/Baronesse	124.9	53.2	87.3	175.0	38.2	13.1
MT970125	MT851195/ND 11120	118.7	50.6	79.1	177.7	37.6	13.6
MT970129	MT851195/Stark	121.3	52.4	75.7	178.6	34.0	13.4
MT970148	MT861596/ND 11120	132.0	52.1	87.9	174.7	32.9	12.7

1999 SPRING BARLEY STATEWIDE IRRIGATED OVERALL SUMMARY

ID	Pedigree	YIELD bu/ac	TEST WEIGHT lb/bu	PLUMP PERCENT	HEADING DATE	PLANT HEIGHT inches	PROTEIN PERCENT
MT970155	MT886610/MT140523	125.2	52.5	88.3	178.9	34.4	13.1
MT970177	MT887103/MT890070	119.0	52.5	86.9	174.1	36.3	13.2
MT970196	MT887509/ND 11120	121.4	52.1	84.6	176.7	36.8	12.7
MT970205	MT890008/Dominique	133.1	51.6	92.5	178.4	34.7	12.6
MT970207	MT890008/Dominique	125.0	52.2	86.8	177.2	34.5	13.1
MT970214	MT890008/MT860326	122.7	51.4	89.2	176.1	37.2	13.1
MT970218	MT890008/MT860326	115.5	51.9	88.7	175.5	37.2	13.1
MT970228	MT890021/Stark	133.3	51.7	88.6	177.0	35.0	13.4
MT970229	MT890021/Stark	129.0	53.1	92.3	178.0	35.3	12.7
MT970231	MT890021/Stark	119.2	51.7	82.1	176.5	37.2	13.4
MT970245	MT900071/MT890070	123.4	51.9	82.7	174.0	38.6	13.0
MT970248	MT900071/ND 11120	121.9	52.3	90.6	175.3	38.0	13.1
MTLB 5	Lewis/Baronesse #5	123.5	52.2	80.0	177.4	36.0	13.7
MTLB 6	Lewis/Baronesse # 6	123.6	52.3	87.8	174.9	34.9	13.6
MTLB 13	Lewis/Baronesse #13	121.2	52.0	85.8	176.4	34.6	13.4
MTLB 30	Valier	122.1	52.6	84.2	178.0	37.1	13.5
ND 9866	Stark	118.8	52.2	88.9	173.1	37.2	13.6
PI491534	Gallatin	120.4	52.7	83.2	174.5	36.8	13.3
PI568246	Baronesse	130.9	52.1	87.5	178.3	33.5	13.0
PI591823	Chinook	115.7	51.8	80.0	175.5	36.8	13.9
SK 76333	Harrington	117.8	50.6	82.3	177.2	36.4	13.1
SITMEAN	SITE MEAN	122.8	52.2	86.0	176.6	35.8	13.2

302

1999 SPRING BARLEY STATEWIDE IRRIGATED SUMMARY

YIELD (bu/ac)

ID	Pedigree	Kali-Spell	Sidney	Huntley	Conrad	Bozeman	AVG	BYX	RSQ
11232-11	Logan	151.0	109.3	126.7	116.4	109.1	122.5	0.91	0.88
2B914947	Merit	141.4	112.7	127.6	120.8	95.1	119.5	0.94	0.96
96/1114	AC 96/1114	151.9	125.8	135.2	135.2	108.2	131.3	0.87	0.96
BA 1202	Busch Agr 1202	148.3	106.2	109.6	120.2	99.7	116.8	1.00	0.88
BZ594-19	WPB Xena	144.7	120.2	128.8	113.2	101.4	121.7	0.86	0.89
BZ594-35	WPB BZ594-35	124.6	99.6	126.7	106.5	93.3	110.1	0.70	0.71
C 22	Moravian 22	146.4	100.5	128.6	131.0	108.7	123.1	0.89	0.75
C 37	Coors C37	141.1	122.2	123.0	135.0	107.7	125.8	0.65	0.81
CI 15773	Morex	131.8	113.7	94.1	92.0	76.2	101.6	0.97	0.65
CI 15856	Lewis	159.8	106.8	117.2	106.2	92.9	116.6	1.37	0.91
GS 1750	GS 1750	158.8	126.9	135.7	136.8	105.8	132.8	1.05	0.97
H1851195	MT41918/TR450	141.6	111.8	119.0	119.6	98.2	118.0	0.87	0.99
H3860224	Lewis/Apex	143.5	113.3	128.0	125.5	98.3	121.7	0.93	0.97
JERSEY	Jersey	141.4	110.6	128.4	134.7	98.0	122.6	0.91	0.83
MT910189	ND 7293/Bearpaw	147.8	104.1	121.8	117.2	90.6	116.3	1.19	0.99
MT920053	MT 81143/MT140523	145.3	105.3	121.6	126.0	98.4	119.3	1.00	0.94
MT920059	MT 81143/VD403582	145.2	107.0	128.8	112.9	94.0	117.6	1.08	0.95
MT920073	MT811613/MT 83518	153.5	109.8	131.0	118.7	102.1	123.0	1.10	0.96
MT940053	MT 81143/Blenheim	142.3	118.7	126.6	119.1	100.6	121.5	0.82	0.96
MT940082	MT 81143/Blenheim	151.4	110.7	136.0	116.5	105.5	124.0	1.00	0.88
MT940214	MT860756/Lewis	145.3	109.0	130.0	118.6	105.5	121.7	0.87	0.92
MT950186	MT860756/MT83533	160.0	123.1	127.5	118.9	95.3	125.0	1.26	0.95
MT960045	Cheri/Lewis	133.5	125.7	131.4	126.4	110.6	125.5	0.44	0.78
MT960082	Harrington/Camilot/Lewis	138.8	108.8	125.6	112.3	87.9	114.7	1.03	0.94
MT960099	Manley/Baronesse	155.0	131.0	149.5	136.2	98.2	134.0	1.12	0.82
MT960100	Manley/Baronesse	159.8	133.6	145.3	123.5	107.8	134.0	1.02	0.84
MT960101	Manley/Baronesse	161.0	124.2	121.5	132.3	95.6	126.9	1.25	0.91
MT960198	MT886610/MT140523	153.3	104.4	127.2	127.9	100.8	122.7	1.14	0.93
MT960222	Stark/Baronesse	152.7	124.0	132.8	133.1	102.7	129.1	0.99	0.96
MT960225	Stark/Baronesse	159.3	123.5	131.6	129.7	104.3	129.7	1.10	0.99
MT960226	Stark/Baronesse	148.7	120.7	137.8	133.8	102.4	128.7	0.95	0.92
MT960228	Stark/Baronesse	160.7	126.4	125.7	143.8	96.3	130.6	1.24	0.86
MT970019	Baronesse/MT860756	147.2	114.5	116.3	124.0	99.4	120.3	0.95	0.95
MT970026	Baronesse/MT860756	149.0	115.6	134.4	120.2	107.4	125.3	0.89	0.93
MT970053	Baronesse/ND 11120	156.8	116.3	112.2	116.6	106.2	121.6	1.00	0.80
MT970086	Dominique/Stark	147.6	105.8	130.3	119.1	101.0	120.8	1.02	0.93
MT970105	Harrington/Stark	147.2	112.0	102.0	110.2	100.9	114.5	0.89	0.71
MT970107	Harrington/Stark	158.0	111.8	116.5	116.5	98.0	120.2	1.21	0.93
MT970110	Klages/Baronesse	156.5	117.9	135.4	132.5	94.7	127.4	1.25	0.96
MT970116	Klages/Baronesse	151.2	119.9	123.5	127.4	102.3	124.9	0.96	0.97
MT970125	MT851195/ND 11120	151.8	111.3	115.3	124.4	90.6	118.7	1.21	0.95
MT970129	MT851195/Stark	136.6	121.1	117.2	133.6	98.1	121.3	0.71	0.69
MT970148	MT861596/ND 11120	159.0	129.5	134.5	135.3	101.4	132.0	1.12	0.95

1999 SPRING BARLEY STATEWIDE IRRIGATED SUMMARY

YIELD (bu/ac)

303

ID	Pedigree	Kali-Spell	Sidney	Huntley	Conrad	Boze-man	AVG	BYX	RSQ
MT970155	MT886610/MT140523	150.0	111.5	133.2	131.1	100.1	125.2	1.06	0.94
MT970177	MT887103/MT890070	143.3	113.9	134.9	105.0	97.8	119.0	0.94	0.75
MT970196	MT887509/ND 11120	157.3	111.8	126.0	115.5	96.3	121.4	1.25	0.97
MT970205	MT890008/Dominique	150.8	115.9	139.5	146.9	112.4	133.1	0.85	0.74
MT970207	MT890008/Dominique	154.5	112.1	128.4	126.7	103.2	125.0	1.08	0.98
MT970214	MT890008/MT860326	151.4	108.4	128.8	127.7	97.1	122.7	1.15	0.97
MT970218	MT890008/MT860326	149.5	111.2	109.0	115.2	92.8	115.5	1.11	0.91
MT970228	MT890021/Stark	156.8	123.4	138.6	141.6	106.0	133.3	1.04	0.93
MT970229	MT890021/Stark	152.2	111.0	144.6	124.2	112.9	129.0	0.91	0.77
MT970231	MT890021/Stark	154.4	120.1	98.2	123.1	100.0	119.2	1.00	0.62
MT970245	MT900071/MT890070	154.9	113.3	128.1	125.1	95.5	123.4	1.21	1.00
MT970248	MT900071/ND 11120	159.2	108.4	125.8	114.6	101.6	121.9	1.21	0.92
MTLB 5	Lewis/Baronesse #5	156.6	121.7	123.3	113.3	102.5	123.5	1.06	0.88
MTLB 6	Lewis/Baronesse #6	150.8	113.5	130.1	115.8	107.8	123.6	0.92	0.91
MTLB 13	Lewis/Baronesse #13	146.3	116.0	119.3	120.0	104.2	121.2	0.84	0.96
MTLB 30	Valier	144.7	113.1	143.2	113.8	95.6	122.1	1.04	0.77
ND 9866	Stark	141.6	111.4	125.1	115.1	100.6	118.8	0.85	0.97
PI491534	Gallatin	140.6	118.6	119.0	121.1	102.7	120.4	0.73	0.95
PI568246	Baronesse	151.9	133.0	127.1	136.0	106.7	130.9	0.84	0.84
PI591823	Chinook	138.8	102.9	128.6	111.6	96.7	115.7	0.92	0.88
SK 76333	Harrington	152.0	100.2	110.8	134.0	92.0	117.8	1.25	0.82
SITMEAN	SITE MEAN	149.3	115.0	126.2	123.1	100.2	122.8	1.00	1.00
C. V.	C. V.	5.51	4.92	8.42	5.75	6.92	---	---	---
L.S.D.	L.S.D (.05)	14.38	9.78	17.47	12.28	11.79	6.82	---	---