

PROJECT TITLE:

Statewide Barley Variety Performance

YEAR: 1995

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: Gil Stallknecht
- 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.

The data for 1995 represent some fairly unusual growing conditions. Growing season rainfall ranged from nearly double that of normal at Conrad to 1.5 of normal at Moccasin to about normal at Sidney, producing exceptionally high yields at most locations. The irrigated nursery at Conrad did not receive supplemental irrigation due to the high rainfall conditions. Yields at Moccasin were suppressed somewhat by loss of nitrogen due to leaching. The Sidney dryland and irrigated trials suffered some shatter loss from severe wind and possibly hail.

Statewide averages for yield, test weight, plump, heading date, height and protein are summarized in Tables 1 and 8 for dryland and irrigated, respectively. Data for these traits at each location are presented in Tables 2 to 7 for dryland, and Tables 9 to 14 for irrigated.

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Table 1.

1995 SPRING BARLEY DRYLAND INTRASTATE STATEWIDE SUMMARY  
OVERALL SUMMARY <sup>(1)</sup>

ID	Pedigree	Yield bu/ac	Test Wt. lb/bu	Plump Percent	Heading Date	Plant Ht. (inches)	Protein
NS 78054	Baronesse	89.8	51.6	90.4	185.5	28.1	10.2
MT920073	MT 81161/MT 83518	86.7	52.6	93.5	183.0	28.2	10.7
MT890008	Fleet/Bowman	86.5	50.2	85.0	187.8	27.8	10.0
MT920053	MT 81143/MT140523	86.2	52.1	87.0	185.2	28.9	10.3
H1851195	MT41918/TR450	86.1	51.3	90.6	183.4	30.0	11.0
H5870120	Lindy/Martin	85.9	46.4	87.5	178.9	27.6	10.1
H3860224	Lewis/Apex	85.8	52.0	91.7	185.9	28.8	10.5
MT930169	MT851012/Bowman	85.6	50.7	81.9	185.5	31.1	10.6
MT920161	MT 83424/MT 81161	84.9	52.5	91.6	184.6	28.9	10.9
BA 1215	2B82-8529	83.5	52.1	85.5	186.5	29.8	10.1
MT890018	Gallatin/Apex	82.6	52.4	89.2	185.2	27.7	10.6
MT886610	MT 81143/Lewis	82.2	52.0	86.8	184.0	30.7	10.3
MT920041	MT 81143/MT 81161	81.9	51.8	92.0	183.8	29.4	10.6
H5851161	MT 41918/MT 41279	81.7	51.4	85.5	185.2	29.8	10.6
MT930204	MT851195/Bowman	81.7	51.2	89.6	182.1	28.6	10.2
MT910150	MT 81143/MT 83444	81.5	52.6	88.6	183.5	29.7	10.9
CI 15229	Steptoe	81.3	46.7	88.6	179.7	27.3	10.0
MT930013	Berolina/Gallatin	81.1	52.5	90.8	181.5	30.2	10.4
MT930132	MT 81143/Bowman	80.9	51.5	93.6	183.2	29.0	10.7
MT930135	MT 81143/Bowman	79.3	52.4	88.0	183.9	30.0	10.7
MT930203	MT851195/Bowman	79.3	50.8	88.2	184.0	29.4	11.2
BA 1202	BA 1202	79.2	49.9	87.7	185.4	29.5	10.2
MT910189	ND 7293/Bearpaw	78.9	52.0	92.7	182.2	28.9	10.1
PI491534	Gallatin	78.6	52.4	86.6	183.9	30.6	10.4
ND 9866	Stark	77.8	52.7	93.9	181.7	31.2	10.7
MT930133	MT 81143/Bowman	77.8	53.0	93.4	181.9	29.1	11.0
SK 76333	Harrington	77.5	50.4	84.5	185.4	29.9	10.2
CI 15856	Lewis	77.2	52.1	85.9	185.6	29.5	10.9
11231-11	Logan	77.1	51.9	90.4	181.2	29.3	10.5
MT910033	Bowman/MT 81619	76.5	52.8	93.2	181.5	28.7	10.5
MT920201	MT 83435/MT 81161	76.4	51.8	86.2	185.8	30.4	10.1
MT910160	MT 81619/Bowman	75.9	52.9	92.6	186.4	30.2	10.3
MT930059	Bowman/MT851031	75.9	52.2	91.5	182.1	30.6	10.9
*****	SITE MEAN *****	75.8	51.5	88.4	183.1	29.0	10.7
MT930048	Bowman/Bearpaw	75.6	51.4	90.7	183.8	29.3	10.2
MN 52	Excel	75.0	49.2	84.6	181.6	29.9	9.8
MT930136	MT 81143/Bowman	75.0	53.3	95.1	181.8	29.5	11.3
MT140523	Hector/Klages	75.0	51.1	80.6	185.3	28.7	10.7
MT930155	MT 83435/Bowman	74.7	52.5	90.4	183.4	29.0	11.1
PI591823	Chinook	74.6	51.3	81.6	185.6	29.7	10.7

**Table 1 (Continued).  
1995 SPRING BARLEY DRYLAND INTRASTATE STATEWIDE SUMMARY  
OVERALL SUMMARY <sup>(1)</sup>**

ID	Pedigree	Yield bu/ac	Test Wt. bu/ac	Plump Percent	Heading Date	Plant Ht. (inches)	Protein Percent
MT930050	Bowman/MT851005	74.4	52.3	95.0	180.6	28.7	10.8
MT920024	Harrington/MT 83592	73.3	50.8	57.6	186.2	23.2	10.8
MT930056	Bowman/MT851005	72.9	51.3	94.0	180.7	29.4	11.0
PI483237	Bowman	72.7	52.1	94.8	181.1	29.3	11.1
MT930076	Clark/Bowman	72.3	51.3	83.7	181.6	27.1	11.1
MT920070	MT 81161/MT 83518	72.3	51.5	81.9	185.4	29.6	10.5
MT890070	MT47219/Bowman	72.2	51.3	89.4	182.3	26.5	10.7
MT930049	Bowman/Bearpaw	72.0	52.2	94.0	181.0	27.6	11.3
MT930051	Bowman/MT851005	72.0	51.6	95.4	181.0	29.6	11.0
CI 15514	Hector	71.6	51.1	81.7	185.4	31.0	10.9
MT930052	Bowman/MT851005	71.1	51.5	94.1	181.4	29.0	10.9
MT930029	Blenheim/Harrington	71.1	50.9	86.2	184.7	29.7	10.2
MT930097	Gallatin/Bowman	70.1	51.5	83.9	179.1	27.3	10.9
2B894311	BA 2B89-4311	69.7	50.2	82.8	185.4	29.0	10.5
MT930096	Gallatin/Bowman	69.3	51.4	86.7	179.1	26.5	10.7
BA 1614	BA 1614	68.8	49.7	89.8	183.6	29.5	10.6
ND 11055	Foster	68.5	49.6	89.4	181.9	30.9	10.0
MT930047	Bowman/Bearpaw	67.8	51.3	90.6	182.8	30.1	11.0
MT930068	Bowman/MT851032	64.1	51.3	91.4	180.5	27.3	11.3
MT930065	Bowman/MT851032	63.9	51.4	92.1	180.2	27.8	11.3
MT930071	Bowman/MT851032	63.0	51.7	92.9	180.2	27.0	11.5
CI 15773	Morex	62.5	49.3	82.4	180.8	33.5	10.4
MT930069	Bowman/MT851032	62.3	51.3	94.1	180.0	27.5	11.2
BZ489-74	BZ489-74	62.1	56.4	75.1	188.2	27.2	11.5
MT930070	Bowman/MT851032	61.3	51.4	81.7	180.4	27.2	11.3

<sup>(1)</sup> Ranked on yield in descending order.

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Table 2.

**1995 SPRING BARLEY DRYLAND INTRASTATE STATEWIDE SUMMARY  
YIELD (bu/ac)**

ID	Pedigree	Havre	Sidney	Moccasin	Huntley	Conrad	Bozeman	Mean	BYX	RSQ
11231-11	Logan	63.8	75.0	48.0	89.8	81.3	104.5	77.1	0.95	0.86
2B894311	BA 2B89-4311	52.6	66.2	41.2	73.8	69.5	114.7	69.7	1.13	0.75
BA 1202	BA 1202	73.6	66.5	46.3	88.9	89.6	110.7	79.2	1.12	0.95
BA 1215	2B82-8529	85.3	77.2	49.9	83.3	105.3	99.9	83.5	0.96	0.90
BA 1614	BA 1614	68.7	61.9	35.3	66.0	87.9	93.2	68.8	1.04	0.95
BZ489-74	BZ489-74	65.3	49.4	28.2	67.3	75.2	87.0	62.1	1.03	0.93
CI 15229	Steptoe	85.7	67.2	42.0	82.4	107.8	102.5	81.3	1.17	0.88
CI 15514	Hector	68.6	64.2	39.9	62.4	94.8	99.9	71.6	1.09	0.89
CI 15773	Morex	48.1	70.0	38.6	68.2	60.6	89.2	62.5	0.77	0.70
CI 15856	Lewis	74.7	73.3	38.7	83.8	97.2	95.4	77.2	1.08	0.95
H1851195	MT41918/TR450	83.1	75.2	53.0	82.6	99.7	122.9	86.1	1.17	0.92
H3860224	Lewis/Apex	89.3	72.3	42.7	94.0	106.2	110.2	85.8	1.25	0.93
H5851161	MT 41918/MT 41279	73.6	63.4	57.4	82.5	98.8	114.2	81.7	1.04	0.86
H5870120	Lindy/Martin	83.3	71.4	58.2	100.7	98.8	103.0	85.9	0.87	0.85
MN 52	Excel	52.9	74.8	42.5	83.3	95.3	101.3	75.0	1.13	0.88
MT140523	Hector/Klages	65.9	73.9	38.1	87.0	75.5	109.9	75.0	1.14	0.86
MT886610	MT 81143/Lewis	77.6	72.4	42.7	86.4	102.3	111.7	82.2	1.26	0.99
MT890008	Fleet/Bowman	81.4	70.2	52.5	81.7	121.3	111.6	86.5	1.22	0.84
MT890018	Gallatin/Apex	69.2	80.8	46.9	97.8	89.2	111.4	82.6	1.11	0.90
MT890070	MT47219/Bowman	70.1	72.2	36.5	72.0	91.3	90.7	72.2	1.00	0.94
MT910033	Bowman/MT 81619	73.6	81.7	42.2	67.7	97.0	96.5	76.5	0.97	0.83
MT910150	MT 81143/MT 83444	79.4	73.1	52.3	83.4	97.3	103.8	81.5	0.94	0.98
MT910160	MT 81619/Bowman	73.5	71.6	42.1	71.1	93.5	103.7	75.9	1.07	0.95
MT910189	ND 7293/Bearpaw	79.2	74.9	47.7	81.8	86.1	103.9	78.9	0.92	0.95
MT920024	Harrington/MT 83592	67.8	62.3	43.3	90.0	73.7	103.0	73.3	0.98	0.81
MT920041	MT 81143/MT 81161	78.6	74.5	49.4	95.4	92.8	101.0	81.9	0.95	0.94
MT920053	MT 81143/MT140523	74.4	83.2	52.3	91.3	103.8	112.0	86.2	1.10	0.98
MT920070	MT 81161/MT 83518	54.4	67.0	37.9	97.1	72.5	105.1	72.3	1.13	0.74
MT920073	MT 81161/MT 83518	92.0	71.7	42.8	102.1	102.7	108.7	86.7	1.22	0.88
MT920161	MT 83424/MT 81161	78.7	76.5	52.5	88.2	100.9	112.5	84.9	1.08	0.99
MT920201	MT 83435/MT 81161	69.0	68.1	43.8	80.4	97.2	100.0	76.4	1.07	0.98
MT930013	Berolina/Gallatin	76.3	78.0	47.8	74.9	107.4	102.3	81.1	1.05	0.89
MT930029	Blenheim/Harrington	62.8	72.2	41.0	78.0	74.7	98.1	71.1	0.92	0.90
MT930047	Bowman/Bearpaw	62.2	66.5	40.9	61.8	83.6	91.9	67.8	0.90	0.92
MT930048	Bowman/Bearpaw	65.2	74.4	43.4	83.8	96.4	90.2	75.6	0.95	0.91
MT930049	Bowman/Bearpaw	73.5	66.2	41.0	82.6	77.9	91.0	72.0	0.85	0.90
MT930050	Bowman/MT851005	67.6	72.1	43.9	83.1	90.5	88.9	74.4	0.88	0.95
MT930051	Bowman/MT851005	63.1	62.3	38.3	80.0	89.4	99.0	72.0	1.13	0.99
MT930052	Bowman/MT851005	65.0	60.8	44.5	76.2	83.1	96.9	71.1	0.93	0.96
MT930056	Bowman/MT851005	70.3	67.8	41.8	77.7	85.4	94.6	72.9	0.94	1.00

Table 2 (Continued).

## 1995 SPRING BARLEY DRYLAND INTRASTATE STATEWIDE SUMMARY

## YIELD (bu/ac)

ID	Pedigree	Havre	Sidney	Moccasin	Huntley	Conrad	Bozeman	Mean	BYX	RSQ
MT930059	Bowman/MT851031	72.9	69.7	45.5	79.8	89.0	98.3	75.9	0.94	0.99
MT930065	Bowman/MT851032	64.5	69.7	35.4	65.6	78.5	69.6	63.9	0.66	0.74
MT930068	Bowman/MT851032	68.1	69.6	31.3	63.2	79.8	72.5	64.1	0.76	0.75
MT930069	Bowman/MT851032	61.9	68.2	32.2	67.8	72.0	71.6	62.3	0.71	0.81
MT930070	Bowman/MT851032	61.8	67.8	32.9	62.6	75.1	67.4	61.3	0.66	0.75
MT930071	Bowman/MT851032	60.7	70.2	35.1	61.4	68.1	82.4	63.0	0.75	0.84
MT930076	Clark/Bowman	60.4	75.5	38.5	86.0	85.2	88.0	72.3	0.94	0.87
MT930096	Gallatin/Bowman	61.6	71.2	33.8	70.4	85.3	93.2	69.3	1.06	0.97
MT930097	Gallatin/Bowman	55.7	68.3	38.2	76.2	88.4	93.9	70.1	1.05	0.95
MT930132	MT 81143/Bowman	76.4	75.7	43.7	86.0	102.7	101.0	80.9	1.10	0.97
MT930133	MT 81143/Bowman	64.1	78.8	50.2	80.7	90.5	102.3	77.8	0.93	0.94
MT930135	MT 81143/Bowman	68.7	76.2	47.6	87.5	86.9	108.9	79.3	1.04	0.95
MT930136	MT 81143/Bowman	78.4	64.9	45.7	91.7	82.1	89.1	75.0	0.80	0.80
MT930155	MT 83435/Bowman	73.7	64.2	43.7	76.5	91.2	99.0	74.7	1.00	0.96
MT930169	MT851012/Bowman	74.2	69.7	56.2	88.5	106.0	119.1	85.6	1.17	0.91
MT930203	MT851195/Bowman	81.1	67.0	49.2	78.6	102.9	97.3	79.3	0.95	0.87
MT930204	MT851195/Bowman	76.1	82.2	55.8	75.7	99.0	101.5	81.7	0.83	0.90
ND 9866	Stark	72.2	77.5	40.9	85.1	93.8	97.4	77.8	1.04	0.97
ND 11055	Foster	55.1	70.5	44.0	65.0	86.0	90.3	68.5	0.86	0.87
NS 78054	Baronesse	87.4	79.9	51.8	94.9	111.0	113.7	89.8	1.16	0.97
PI483237	Bowman	64.4	70.9	45.7	84.7	86.6	83.7	72.7	0.77	0.88
PI491534	Gallatin	65.5	74.2	51.0	75.0	92.3	113.5	78.6	1.06	0.89
PI591823	Chinook	71.3	62.9	47.2	77.6	87.0	101.7	74.6	0.96	0.95
SK 76333	Harrington	63.9	67.6	42.8	81.6	88.6	120.2	77.5	1.30	0.91
*****	SITE MEAN *****	70.3	70.9	43.8	80.3	90.3	99.4	75.8	1.00	1.00
C.V.1	C.V.1	7.78	6.02	14.34	9.25	9.04	6.37	—	—	—
LSD .05	LSD (.05)	9.27	7.44	10.79	12.01	13.86	10.24	—	—	—

Table 3.

1995 SPRING BARLEY DRYLAND INTRASTATE STATEWIDE SUMMARY  
TEST WEIGHT (lb/bu)

ID	Pedigree	Havre	Sidney	Moccasin	Huntley	Conrad	Bozeman	Mean	BYX	RSQ
11231-11	Logan	51.3	51.7	50.7	50.9	53.5	53.0	51.9	0.64	0.91
2B894311	BA 2B89-4311	48.4	49.9	46.1	50.4	52.5	54.1	50.2	1.51	0.83
BA 1202	BA 1202	48.8	49.1	47.2	49.7	52.4	52.2	49.9	1.13	0.92
BA 1215	2B82-8529	52.5	50.2	50.2	51.8	54.8	53.2	52.1	0.87	0.69
BA 1614	BA 1614	50.1	48.1	48.2	49.1	51.1	51.8	49.7	0.78	0.80
BZ489-74	BZ489-74	57.8	56.4	55.3	55.2	53.5	60.5	56.4	0.37	0.07
CI 15229	Steptoe	44.6	46.3	45.6	45.1	49.3	49.4	46.7	1.16	0.90
CI 15514	Hector	50.5	50.4	49.0	49.1	53.1	54.5	51.1	1.25	0.93
CI 15773	Morex	48.6	48.4	48.1	47.7	51.4	51.9	49.3	1.03	0.95
CI 15856	Lewis	52.3	51.0	50.1	50.9	53.8	54.5	52.1	0.96	0.89
H1851195	MT41918/TR450	50.8	49.8	50.2	50.5	53.4	53.2	51.3	0.89	0.93
H3860224	Lewis/Apex	50.8	50.8	49.7	51.2	54.7	54.6	52.0	1.23	0.98
H5851161	MT 41918/MT 41279	50.5	50.7	49.8	49.4	53.5	54.4	51.4	1.15	0.94
H5870120	Lindy/Martin	44.1	46.1	44.7	45.9	47.8	49.8	46.4	1.11	0.84
MN 52	Excel	48.1	48.0	48.1	47.7	51.6	51.9	49.2	1.12	0.96
MT140523	Hector/Klages	50.1	51.2	48.8	51.3	51.7	53.8	51.1	0.81	0.70
MT886610	MT 81143/Lewis	51.3	51.0	49.9	51.1	54.5	54.4	52.0	1.11	0.98
MT890008	Fleet/Bowman	50.6	48.3	49.8	46.8	52.9	53.0	50.2	1.15	0.65
MT890018	Gallatin/Apex	51.1	51.7	50.4	52.1	54.7	54.7	52.4	1.05	0.96
MT890070	MT47219/Bowman	49.5	50.3	49.7	50.3	54.3	53.6	51.3	1.18	0.95
MT910033	Bowman/MT 81619	51.6	51.9	51.9	51.3	54.9	55.0	52.8	0.96	0.94
MT910150	MT 81143/MT 83444	51.7	51.8	50.1	52.3	55.1	54.8	52.6	1.08	0.93
MT910160	MT 81619/Bowman	52.4	51.4	51.4	51.8	55.1	55.1	52.9	1.01	0.96
MT910189	ND 7293/Bearpaw	51.2	51.4	51.1	51.2	52.8	54.5	52.0	0.74	0.89
MT920024	Harrington/MT 83592	48.7	50.1	48.9	50.8	51.9	54.5	50.8	1.12	0.80
MT920041	MT 81143/MT 81161	50.5	49.9	50.9	51.2	54.5	54.0	51.8	1.05	0.88
MT920053	MT 81143/MT140523	51.6	50.7	50.2	50.7	54.5	55.0	52.1	1.19	0.97
MT920070	MT 81161/MT 83518	50.2	50.6	49.3	52.4	52.3	54.3	51.5	0.88	0.68
MT920073	MT 81161/MT 83518	51.5	50.9	51.2	51.6	55.4	54.9	52.6	1.12	0.94
MT920161	MT 83424/MT 81161	50.9	50.7	51.2	52.3	55.2	54.5	52.5	1.04	0.87
MT920201	MT 83435/MT 81161	51.4	50.1	50.5	50.1	54.5	54.2	51.8	1.13	0.91
MT930013	Berolina/Gallatin	52.1	51.5	51.2	51.6	54.1	54.3	52.5	0.79	0.97
MT930029	Blenheim/Harrington	50.1	50.0	48.8	50.8	52.3	53.6	50.9	0.97	0.91
MT930047	Bowman/Bearpaw	50.2	50.1	50.2	49.4	53.8	53.8	51.3	1.11	0.93
MT930048	Bowman/Bearpaw	50.7	50.6	49.4	50.8	53.1	53.5	51.4	0.90	0.96
MT930049	Bowman/Bearpaw	50.9	51.3	51.7	51.3	54.2	54.0	52.2	0.80	0.89
MT930050	Bowman/MT851005	51.0	51.1	51.4	52.0	54.0	54.2	52.3	0.80	0.91
MT930051	Bowman/MT851005	50.4	50.8	50.3	50.9	53.6	53.9	51.6	0.95	0.99
MT930052	Bowman/MT851005	50.4	50.4	50.1	50.3	53.7	54.0	51.5	1.05	0.99
MT930056	Bowman/MT851005	49.8	50.0	49.8	50.6	53.8	53.8	51.3	1.12	0.97
MT930059	Bowman/MT851031	51.9	51.5	50.8	51.5	53.5	54.3	52.2	0.77	0.97

Table 3 (Continued).

1995 SPRING BARLEY DRYLAND INTRASTATE STATEWIDE SUMMARY  
TEST WT (lb/bu)

ID	Pedigree	Havre	Sidney	Moccasin	Huntley	Conrad	Bozeman	Mean	BYX	RSQ
MT930065	Bowman/MT851032	49.7	51.3	48.9	51.5	53.6	53.2	51.4	0.97	0.81
MT930068	Bowman/MT851032	49.8	52.1	48.9	49.9	53.7	53.4	51.3	1.05	0.79
MT930069	Bowman/MT851032	49.8	51.3	49.3	50.9	53.0	53.4	51.3	0.90	0.89
MT930070	Bowman/MT851032	50.2	51.0	48.9	51.4	53.5	53.5	51.4	0.99	0.88
MT930071	Bowman/MT851032	49.8	52.7	49.7	51.3	53.1	53.5	51.7	0.79	0.65
MT930076	Clark/Bowman	49.8	50.6	49.2	50.7	53.8	53.8	51.3	1.12	0.96
MT930096	Gallatin/Bowman	50.6	50.8	49.8	49.7	53.3	54.0	51.4	1.04	0.95
MT930097	Gallatin/Bowman	49.8	50.8	50.0	50.1	54.2	54.4	51.5	1.22	0.97
MT930132	MT 81143/Bowman	51.2	50.4	50.2	49.4	53.9	54.0	51.5	1.06	0.88
MT930133	MT 81143/Bowman	51.4	52.0	52.7	52.4	55.2	54.5	53.0	0.76	0.78
MT930135	MT 81143/Bowman	51.0	50.9	51.2	52.4	54.7	54.0	52.4	0.87	0.84
MT930136	MT 81143/Bowman	51.9	52.4	52.2	53.2	55.7	54.5	53.3	0.80	0.83
MT930155	MT 83435/Bowman	52.2	52.3	50.8	50.8	54.7	54.1	52.5	0.87	0.85
MT930169	MT851012/Bowman	50.2	50.9	47.8	48.4	53.3	53.8	50.7	1.32	0.86
MT930203	MT851195/Bowman	50.3	49.5	49.0	49.1	53.1	53.8	50.8	1.20	0.96
MT930204	MT851195/Bowman	49.5	50.5	50.3	49.0	53.8	54.0	51.2	1.18	0.88
ND 9866	Stark	52.0	51.3	51.8	51.3	55.2	54.5	52.7	0.92	0.88
ND 11055	Foster	48.7	48.1	47.8	49.0	51.9	52.0	49.6	1.09	0.97
NS 78054	Baronesse	49.3	51.1	50.5	50.4	54.5	53.8	51.6	1.12	0.87
PI483237	Bowman	50.7	51.2	51.6	52.0	53.3	54.0	52.1	0.68	0.84
PI491534	Gallatin	52.3	49.9	51.5	50.9	54.7	54.9	52.4	1.06	0.80
PI591823	Chinook	51.4	49.8	49.5	51.2	52.3	53.8	51.3	0.82	0.78
SK 76333	Harrington	49.9	49.9	47.9	49.3	51.9	53.2	50.4	1.06	0.90
*****	SITE MEAN *****	50.5	50.6	49.9	50.5	53.5	53.9	51.5	1.00	1.00
C.V. 1	C.V.1 (S/MEAN) * 100	1.16	1.32	1.05	—	—	0.66	—	—	—
LSD .05	LSD (.05)	1.00	1.14	0.90	—	—	0.71	—	—	—

Table 4.

1995 SPRING BARLEY DRYLAND INTRASTATE STATEWIDE SUMMARY  
 PLUMP PERCENT (over #6 screen)

ID	Pedigree	Havre	Sidney	Moccasin	Huntley	Conrad	Bozeman	Mean	BYX	RSQ
11231-11	Logan	95.4	88.6	79.5	90.8	94.0	94.0	90.4	0.90	0.93
2B894311	BA 2B89-4311	84.5	88.1	59.8	87.5	84.0	92.9	82.8	1.59	0.73
BA 1202	BA 1202	92.4	85.2	65.6	91.2	98.0	93.5	87.7	1.75	0.91
BA 1215	2B82-8529	92.7	84.1	65.8	82.7	97.0	90.5	85.5	1.72	0.97
BA 1614	BA 1614	94.5	91.6	82.4	84.1	95.0	91.0	89.8	0.73	0.75
BZ489-74	BZ489-74	86.2	78.5	41.5	61.4	92.0	91.3	75.1	3.11	0.96
CI 15229	Step toe	90.9	86.6	85.6	81.3	93.0	94.0	88.6	0.53	0.46
CI 15514	Hector	89.4	78.9	61.9	75.1	94.0	90.8	81.7	1.89	0.96
CI 15773	Morex	86.9	90.3	68.1	77.2	82.0	90.2	82.4	1.13	0.67
CI 15856	Lewis	93.1	84.1	72.1	82.6	92.0	91.3	85.9	1.26	0.97
H1851195	MT41918/TR450	97.3	84.6	86.1	89.1	96.0	90.4	90.6	0.54	0.44
H3860224	Lewis/Apex	94.2	86.9	84.3	90.9	98.0	95.8	91.7	0.75	0.79
H5851161	MT 41918/MT 41279	87.9	86.6	72.6	80.6	94.0	91.6	85.5	1.20	0.93
H5870120	Lindy/Martin	90.5	86.8	75.0	84.0	94.0	94.9	87.5	1.16	0.97
MN 52	Excel	86.3	88.4	74.3	78.1	93.0	87.5	84.6	0.97	0.76
MT140523	Hector/Klages	85.3	86.3	65.6	87.2	69.0	90.2	80.6	0.82	0.24
MT886610	MT 81143/Lewis	92.4	83.3	71.4	86.3	95.0	92.1	86.8	1.35	0.96
MT890008	Fleet/Bowman	94.0	81.0	73.8	70.6	95.0	95.3	85.0	1.46	0.66
MT890018	Gallatin/Apex	92.7	89.5	76.4	88.3	94.0	94.5	89.2	1.07	0.99
MT890070	MT47219/Bowman	90.3	88.9	77.2	87.2	97.0	96.0	89.4	1.10	0.94
MT910033	Bowman/MT 81619	96.3	93.3	86.2	89.6	98.0	95.5	93.2	0.68	0.91
MT910150	MT 81143/MT 83444	94.2	89.5	69.0	91.6	95.0	92.2	88.6	1.47	0.89
MT910160	MT 81619/Bowman	98.0	88.0	83.1	90.5	99.0	96.8	92.6	0.94	0.86
MT910189	ND 7293/Bearpaw	94.7	89.1	92.1	93.5	91.0	95.8	92.7	0.10	0.06
MT920024	Harrington/MT 83592	51.5	69.1	30.5	59.9	53.0	81.8	57.6	1.89	0.46
MT920041	MT 81143/MT 81161	95.0	86.2	86.0	93.7	97.0	94.3	92.0	0.58	0.59
MT920053	MT 81143/MT140523	93.4	84.5	77.2	80.0	94.0	93.2	87.0	1.09	0.84
MT920070	MT 81161/MT 83518	78.9	89.1	68.4	88.3	76.0	90.4	81.9	0.71	0.26
MT920073	MT 81161/MT 83518	93.9	90.3	89.0	93.8	99.0	94.8	93.5	0.44	0.62
MT920161	MT 83424/MT 81161	92.1	88.3	86.1	83.5	97.0	92.8	91.6	0.49	0.62
MT920201	MT 83435/MT 81161	90.3	83.2	76.7	79.4	95.0	92.7	86.2	1.08	0.82
MT930013	Berolina/Gallatin	94.1	88.0	87.7	88.2	94.0	92.8	90.8	0.40	0.64
MT930029	Blenheim/Harrington	92.4	86.0	70.2	87.8	87.0	94.0	86.2	1.24	0.85
MT930047	Bowman/Bearpaw	93.9	92.9	80.0	84.9	97.0	95.0	90.6	1.00	0.89
MT930048	Bowman/Bearpaw	94.8	87.3	81.5	91.8	95.0	93.5	90.7	0.78	0.86
MT930049	Bowman/Bearpaw	96.5	93.1	92.1	93.9	96.0	92.5	94.0	0.17	0.34
MT930050	Bowman/MT851005	96.9	93.6	90.8	95.4	97.0	96.1	95.0	0.36	0.89
MT930051	Bowman/MT851005	96.8	93.9	89.3	96.8	99.0	96.8	95.4	0.50	0.84
MT930052	Bowman/MT851005	96.4	94.6	84.6	94.3	99.0	95.8	94.1	0.76	0.93
MT930056	Bowman/MT851005	96.0	92.2	88.7	95.0	97.0	95.2	94.0	0.45	0.85
MT930059	Bowman/MT851031	97.2	90.1	78.9	91.9	97.0	93.6	91.5	1.03	0.92

**Table 4 (Continued).**  
**1995 SPRING BARLEY DRYLAND INTRASTATE STATEWIDE SUMMARY**  
**PLUMP PERCENT (over #6 screen)**

ID	Pedigree	Havre	Sidney	Moccasin	Huntley	Conrad	Bozeman	Mean	BYX	RSQ
MT930065	Bowman/MT851032	98.7	95.6	72.6	95.0	98.0	92.7	92.1	1.39	0.80
MT930068	Bowman/MT851032	95.9	91.9	77.4	90.7	98.0	94.3	91.4	1.14	0.96
MT930069	Bowman/MT851032	96.1	95.7	85.3	95.4	97.0	95.4	94.1	0.64	0.85
MT930070	Bowman/MT851032	95.7	93.8	71.8	95.9	98.0	95.0	91.7	1.43	0.84
MT930071	Bowman/MT851032	92.8	93.0	82.2	95.6	98.0	95.5	92.9	0.79	0.80
MT930076	Clark/Bowman	89.1	90.7	53.4	88.4	90.0	90.7	83.7	2.14	0.82
MT930096	Gallatin/Bowman	91.1	86.5	78.6	77.5	96.0	90.7	86.7	0.97	0.69
MT930097	Gallatin/Bowman	81.4	85.9	76.4	78.1	91.0	90.8	83.9	0.79	0.62
MT930132	MT 81143/Bowman	95.6	90.6	91.4	90.2	98.0	95.6	93.6	0.36	0.49
MT930133	MT 81143/Bowman	94.9	90.4	91.3	93.9	95.0	95.2	93.4	0.23	0.49
MT930135	MT 81143/Bowman	89.0	86.1	79.2	86.5	97.0	89.9	88.0	0.82	0.79
MT930136	MT 81143/Bowman	97.2	92.8	91.9	94.9	98.0	95.8	95.1	0.32	0.71
MT930155	MT 83435/Bowman	97.6	90.7	77.0	87.4	97.0	92.9	90.4	1.17	0.93
MT930169	MT851012/Bowman	90.0	80.4	61.0	74.2	93.0	92.5	81.9	1.98	0.97
MT930203	MT851195/Bowman	94.1	90.8	74.9	78.4	97.0	94.2	88.2	1.34	0.83
MT930204	MT851195/Bowman	91.7	88.5	86.1	80.1	96.0	95.2	89.6	0.63	0.44
ND 9866	Stark	97.6	89.8	93.7	88.8	98.0	95.6	93.9	0.28	0.20
ND 11055	Foster	91.9	92.4	73.3	90.4	95.0	93.3	89.4	1.21	0.80
NS 78054	Baronesse	94.5	93.2	75.8	88.0	97.0	93.7	90.4	1.19	0.94
PI483237	Bowman	95.8	92.6	92.8	96.2	96.0	95.5	94.8	0.17	0.42
PI491534	Gallatin	92.0	82.8	79.2	80.5	94.0	91.3	86.6	0.90	0.75
PI591823	Chinook	90.7	79.7	60.4	85.9	83.0	89.8	81.6	2.39	0.19
SK 76333	Harrington	91.5	87.3	69.6	79.4	87.0	92.5	84.5	1.30	0.89
*****	SITE MEAN *****	92.1	88.2	76.9	86.6	93.5	93.2	88.4	1.00	1.00
C.V. 1	C.V. 1	---	2.95	---	---	---	1.07	---	---	---
LSD .05	LSD (.05)	---	4.46	---	---	---	1.99	---	---	---

Table 5.

**1995 SPRING BARLEY DRYLAND INTRASTATE STATEWIDE SUMMARY**  
**HEADING DATE (Days from Jan. 1)**

ID	Pedigree	Havre	Sidney	Moccasin	Huntley	Conrad	Bozeman	Mean	BYX	RSQ
11231-11	Logan	177.3	172.6	193.7	172.5	182.0	189.0	181.2	1.09	0.98
PI591823	Chinook	181.9	177.6	197.7	176.5	190.0	190.0	185.6	1.03	0.97
2B894311	BA 2B89-4311	182.1	176.2	196.7	177.0	190.0	190.7	185.4	1.03	0.98
BA 1202	BA 1202	183.1	176.5	196.7	177.0	189.0	190.3	185.4	1.00	0.99
BA 1215	2B82-8529	184.0	177.2	197.3	180.5	189.0	190.7	186.5	0.92	0.99
BA 1614	BA 1614	181.7	174.3	192.3	175.0	189.0	189.0	183.6	0.93	0.92
BZ489-74	BZ489-74	185.1	178.0	200.7	182.0	192.0	191.7	188.2	1.01	0.96
CI 15229	Steptoe	175.6	171.0	191.0	172.0	182.0	186.3	179.7	1.02	1.00
CI 15514	Hector	181.6	176.6	197.7	178.0	189.0	189.3	185.4	1.00	0.98
CI 15773	Morex	178.0	171.5	191.7	172.5	183.0	188.0	180.8	1.03	0.99
CI 15856	Lewis	182.2	177.1	197.3	177.5	189.0	190.3	185.6	1.00	0.98
H1851195	MT41918/TR450	179.2	175.9	194.0	176.0	186.0	189.0	183.4	0.94	1.00
H3860224	Lewis/Apex	183.4	177.2	198.0	178.0	189.0	190.0	185.9	1.00	0.99
H5851161	MT 41918/MT 41279	182.6	177.2	196.3	176.5	188.0	190.7	185.2	0.98	0.99
H5870120	Lindy/Martin	175.0	171.0	189.0	172.5	180.0	186.0	178.9	0.92	0.98
MN 52	Excel	180.6	171.7	192.3	172.0	185.0	188.0	181.6	1.04	0.95
MT140523	Hector/Klages	181.9	176.6	198.0	177.0	188.0	190.3	185.3	1.05	0.99
MT886610	MT 81143/Lewis	178.8	176.4	197.0	177.0	185.0	190.0	184.0	1.03	0.98
MT890008	Fleet/Bowman	182.8	178.8	199.0	183.0	190.0	193.3	187.8	0.95	0.98
MT890018	Gallatin/Apex	182.2	176.3	198.0	177.0	188.0	189.7	185.2	1.04	0.99
MT890070	MT47219/Bowman	177.6	173.9	194.0	176.5	184.0	188.0	182.3	0.97	0.99
MT910033	Bowman/MT 81619	178.3	173.3	193.3	173.0	183.0	188.0	181.5	1.03	1.00
MT910150	MT 81143/MT 83444	180.9	174.9	194.7	176.5	185.0	189.3	183.5	0.96	1.00
MT910160	MT 81619/Bowman	182.7	177.0	197.3	181.5	188.0	191.7	186.4	0.92	0.97
MT910189	ND 7293/Bearpaw	181.1	172.8	194.7	172.5	184.0	188.3	182.2	1.08	0.97
MT920024	Harrington/MT 83592	184.6	174.9	199.7	177.0	191.0	190.0	186.2	1.14	0.95
MT920041	MT 81143/MT 81161	180.9	176.4	194.3	176.0	185.0	190.3	183.8	0.93	0.98
MT920053	MT 81143/MT140523	180.7	177.1	197.0	176.5	189.0	190.7	185.2	1.04	0.99
MT920070	MT 81161/MT 83518	183.6	176.5	196.7	176.5	189.0	190.0	185.4	1.00	0.97
MT920073	MT 81161/MT 83518	179.3	175.4	195.3	175.0	184.0	189.0	183.0	1.01	0.99
MT920161	MT 83424/MT 81161	181.3	177.2	197.7	176.0	186.0	189.3	184.6	1.02	0.98
MT920201	MT 83435/MT 81161	182.0	177.3	197.7	180.0	188.0	190.0	185.8	0.94	0.99
MT930013	Berolina/Gallatin	176.8	172.9	192.7	175.5	182.0	189.0	181.5	0.98	0.97
MT930029	Blenheim/Harrington	180.6	175.9	196.0	179.0	187.0	189.7	184.7	0.94	0.98
MT930047	Bowman/Bearpaw	179.1	174.3	194.3	179.0	182.0	188.0	182.8	0.88	0.94
MT930048	Bowman/Bearpaw	180.6	175.5	196.3	177.0	185.0	188.7	183.8	0.98	0.99
MT930049	Bowman/Bearpaw	176.4	172.5	193.0	173.0	184.0	187.3	181.0	1.05	0.99
MT930050	Bowman/MT851005	176.0	171.7	192.3	174.0	182.0	187.3	180.6	1.01	0.99
MT930051	Bowman/MT851005	175.7	172.0	193.7	174.0	183.0	187.3	181.0	1.07	0.99
MT930052	Bowman/MT851005	176.3	173.2	195.0	174.5	182.0	187.3	181.4	1.06	0.98
MT930056	Bowman/MT851005	176.3	171.3	193.3	173.0	183.0	187.3	180.7	1.09	1.00

**Table 5 (Continued).**  
**1995 SPRING BARLEY DRYLAND INTRASTATE STATEWIDE SUMMARY**  
**HEADING DATE (Days from Jan. 1)**

ID	Pedigree	Havre	Sidney	Moccasin	Huntley	Conrad	Bozeman	Mean	BYX	RSQ
MT930059	Bowman/MT851031	178.0	174.5	194.3	174.5	184.0	187.0	182.1	0.99	1.00
MT930065	Bowman/MT851032	175.7	171.1	192.7	173.0	182.0	187.0	180.2	1.07	1.00
MT930068	Bowman/MT851032	176.7	171.4	192.3	174.0	182.0	186.3	180.5	1.00	1.00
MT930069	Bowman/MT851032	176.4	171.6	193.3	172.5	180.0	186.3	180.0	1.05	0.98
MT930070	Bowman/MT851032	177.0	171.8	191.7	172.5	182.0	187.7	180.4	1.02	0.99
MT930071	Bowman/MT851032	177.0	171.5	191.0	173.0	182.0	186.7	180.2	0.97	0.99
MT930076	Clark/Bowman	177.1	173.1	194.0	175.5	182.0	188.0	181.6	1.01	0.98
MT930096	Gallatin/Bowman	175.7	170.0	190.7	171.5	180.0	186.7	179.1	1.04	0.99
MT930097	Gallatin/Bowman	176.1	170.1	190.0	171.5	180.0	186.7	179.1	1.01	0.99
MT930132	MT 81143/Bowman	179.0	175.8	196.0	177.0	183.0	188.7	183.2	0.97	0.97
MT930133	MT 81143/Bowman	179.9	171.9	192.7	176.0	183.0	187.7	181.9	0.94	0.97
MT930135	MT 81143/Bowman	179.1	176.4	194.3	176.0	188.0	189.3	183.9	0.95	0.97
MT930136	MT 81143/Bowman	179.0	173.0	195.3	174.5	181.0	188.3	181.8	1.06	0.97
MT930155	MT 83435/Bowman	179.7	175.3	195.0	176.5	185.0	189.0	183.4	0.97	1.00
MT930169	MT851012/Bowman	183.6	177.2	196.7	178.0	187.0	190.7	185.5	0.94	0.99
MT930203	MT851195/Bowman	178.9	175.8	195.7	179.0	185.0	189.7	184.0	0.94	0.97
MT930204	MT851195/Bowman	178.6	174.0	192.7	177.0	182.0	188.3	182.1	0.88	0.97
ND 9866	Stark	178.3	172.7	194.3	174.5	183.0	187.3	181.7	1.03	0.99
ND 11055	Foster	181.6	172.7	193.3	171.5	185.0	187.3	181.9	1.04	0.94
NS 78054	Baronesse	183.6	176.4	197.7	177.0	188.0	190.3	185.5	1.02	0.98
PI483237	Bowman	177.2	173.2	192.4	174.0	182.0	187.7	181.1	0.97	0.99
PI491534	Gallatin	179.7	175.6	195.3	176.0	186.0	191.0	183.9	1.02	0.99
SK 76333	Harrington	182.2	176.2	197.3	178.0	189.0	189.7	185.4	1.00	0.98
*****	SITE MEAN *****	179.7	174.5	194.9	175.8	185.2	188.8	183.1	1.00	1.00
C.V. 1	C.V. 1	0.73	0.40	0.46	0.64	—	0.37	—	—	—
LSD .05	LSD (.05)	2.18	1.17	1.47	2.23	—	1.14	—	—	—

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Table 6.

1995 SPRING BARLEY DRYLAND INTRASTATE STATEWIDE SUMMARY  
PLANT HEIGHT (inches)

ID	Pedigree	Havre	Sidney	Moccasin	Huntley	Conrad	Bozeman	Mean	BYX	RSQ
11231-11	Logan	30.9	22.5	27.2	32.0	34.0	29.1	29.3	0.89	0.86
PI591523	Chinook	31.5	22.6	26.5	31.0	36.0	30.7	29.7	1.05	0.93
2B894311	BA 2B89-4311	32.5	22.2	26.4	30.0	34.0	29.1	29.0	0.98	0.95
BA 1202	BA 1202	31.2	22.0	26.5	32.0	36.0	29.5	29.5	1.09	0.92
BA 1215	2B82-8529	33.5	23.3	26.3	34.0	34.0	27.6	29.8	0.97	0.79
BA 1614	BA 1614	32.8	24.8	23.8	33.0	36.0	26.8	29.5	1.10	0.84
BZ489-74	BZ489-74	28.5	22.8	24.7	27.0	33.0	27.2	27.2	0.81	0.97
CI 15229	Steptoe	31.2	21.4	21.2	30.0	35.0	25.2	27.3	1.27	0.92
CI 15514	Hector	37.2	25.3	26.5	28.0	38.0	30.7	31.0	1.20	0.87
CI 15773	Morex	41.1	27.8	27.2	34.0	40.0	31.1	33.5	1.30	0.86
CI 15856	Lewis	32.8	25.2	26.1	28.0	35.0	29.9	29.5	0.87	0.93
H1851195	MT41918/TR450	33.9	22.6	26.9	33.0	37.0	26.6	30.0	1.21	0.89
H3860224	Lewis/Apex	30.3	22.9	24.4	31.0	35.0	29.1	28.8	1.01	0.92
H5851161	MT 41918/MT 41279	34.0	22.7	26.6	31.0	36.0	28.4	29.8	1.14	0.97
H5870120	Lindy/Martin	30.2	21.7	26.5	27.0	35.0	25.2	27.6	1.02	0.90
MN 52	Excel	36.1	22.4	23.8	29.0	38.0	29.9	29.9	1.45	0.96
MT140523	Hector/Klages	32.8	22.7	24.1	26.0	36.0	30.7	28.7	1.16	0.87
MT886610	MT 81143/Lewis	35.1	24.4	24.8	33.0	38.0	29.1	30.7	1.28	0.95
MT890008	Fleet/Bowman	32.5	20.7	25.7	28.0	33.0	26.8	27.8	1.04	0.93
MT890018	Gallatin/Apex	29.6	22.1	23.7	31.0	32.0	27.6	27.7	0.87	0.84
MT890070	MT47219/Bowman	31.6	23.1	25.8	27.0	36.0	27.6	28.5	1.05	0.95
MT910033	Bowman/MT 81619	31.4	23.8	26.2	29.0	34.0	27.6	28.7	0.86	0.99
MT910150	MT 81143/MT 83444	31.2	23.3	26.8	32.0	35.0	29.9	29.7	0.93	0.91
MT910160	MT 81619/Bowman	33.3	23.8	25.3	33.0	36.0	29.9	30.2	1.11	0.92
MT910189	ND 7293/Bearpaw	31.2	23.5	27.7	29.0	34.0	27.9	28.9	0.82	0.95
MT920024	Harrington/MT 83592	26.6	18.9	18.7	26.0	26.0	23.2	23.2	0.75	0.77
MT920041	MT 81143/MT 81161	31.5	22.7	27.1	32.0	34.0	29.1	29.4	0.90	0.88
MT920053	MT 81143/MT140523	31.5	24.1	26.1	28.0	33.0	30.7	28.9	0.76	0.88
MT920070	MT 81161/MT 83518	32.7	24.1	24.4	33.0	34.0	29.1	29.6	0.95	0.83
MT920073	MT 81161/MT 83518	31.2	22.0	24.4	31.0	33.0	27.6	28.2	0.97	0.91
MT920161	MT 83424/MT 81161	32.5	21.1	25.9	30.0	35.0	29.1	28.9	1.13	0.96
MT920201	MT 83435/MT 81161	34.8	22.4	28.3	30.0	37.0	29.9	30.4	1.18	0.95
MT930013	Berolina/Gallatin	33.4	26.4	26.1	29.0	37.0	29.1	30.2	0.96	0.93
MT930029	Blenheim/Harrington	35.4	23.6	26.8	29.0	36.0	27.6	29.7	1.12	0.92
MT930047	Bowman/Bearpaw	34.5	23.5	29.4	25.0	38.0	29.9	30.1	1.11	0.73
MT930048	Bowman/Bearpaw	32.7	22.2	27.9	29.0	35.0	29.1	29.3	1.00	0.93
MT930049	Bowman/Bearpaw	30.1	23.6	23.8	27.0	33.0	28.4	27.6	0.83	0.94
MT930050	Bowman/MT851005	28.5	23.4	26.9	29.0	36.0	28.4	28.7	0.89	0.84
MT930051	Bowman/MT851005	32.4	24.4	26.0	29.0	37.0	29.1	29.6	1.06	0.98
MT930052	Bowman/MT851005	31.0	25.3	26.0	27.0	35.0	29.9	29.0	0.81	0.87
MT930056	Bowman/MT851005	31.5	25.1	27.6	29.0	35.0	28.4	29.4	0.79	0.96

**Table 6 (Continued).  
1995 SPRING BARLEY DRYLAND INTRASTATE STATEWIDE SUMMARY  
PLANT HEIGHT (inches)**

ID	Pedigree	Havre	Sidney	Moccasin	Huntley	Conrad	Bozeman	Mean	BYX	RSQ
MT930059	Bowman/MT851031	34.9	24.0	27.8	32.0	36.0	28.7	30.6	1.04	0.94
MT930065	Bowman/MT851032	29.6	24.0	24.4	28.0	33.0	27.6	27.8	0.78	0.98
MT930068	Bowman/MT851032	28.9	25.2	24.7	21.0	35.0	28.7	27.3	0.78	0.48
MT930069	Bowman/MT851032	28.1	24.6	24.4	29.0	32.0	26.8	27.5	0.63	0.87
MT930070	Bowman/MT851032	27.6	23.6	22.8	28.0	33.0	27.9	27.2	0.79	0.84
MT930071	Bowman/MT851032	28.8	23.6	25.0	25.0	33.0	26.8	27.0	0.75	0.86
MT930076	Clark/Bowman	29.2	22.0	24.7	25.0	35.0	26.8	27.1	1.01	0.89
MT930096	Gallatin/Bowman	29.6	22.2	22.3	27.0	33.0	25.2	26.5	0.99	0.97
MT930097	Gallatin/Bowman	30.0	22.7	24.8	26.0	34.0	26.4	27.3	0.93	0.95
MT930132	MT 81143/Bowman	30.6	23.5	25.3	30.0	35.0	29.9	29.0	0.94	0.95
MT930133	MT 81143/Bowman	31.1	23.6	27.0	28.0	37.0	27.9	29.1	1.03	0.92
MT930135	MT 81143/Bowman	33.7	25.6	25.8	31.0	33.0	30.7	30.0	0.76	0.85
MT930136	MT 81143/Bowman	31.4	24.0	26.2	30.0	38.0	27.6	29.5	1.12	0.94
MT930155	MT 83435/Bowman	33.5	25.6	25.8	25.0	36.0	28.4	29.0	0.95	0.76
MT930169	MT851012/Bowman	34.0	24.3	27.4	31.0	39.0	30.7	31.1	1.20	0.99
MT930203	MT851195/Bowman	33.8	24.0	25.7	28.0	37.0	27.9	29.4	1.14	0.95
MT930204	MT851195/Bowman	31.4	24.7	25.8	26.0	36.0	27.6	28.6	0.95	0.86
ND 9866	Stark	36.2	26.5	26.0	32.0	37.0	29.5	31.2	1.07	0.92
ND 11055	Foster	37.3	22.1	24.9	33.0	38.0	29.9	30.9	1.49	0.95
NS 78054	Baronesse	27.6	23.1	24.8	34.0	32.0	27.2	28.1	0.71	0.52
PI483237	Bowman	31.7	22.6	27.0	30.0	36.0	28.4	29.3	1.05	0.97
PI491534	Gallatin	32.7	24.6	28.7	28.0	38.0	31.5	30.6	1.01	0.86
SK 76333	Harrington	32.7	22.3	26.2	31.0	37.0	30.3	29.9	1.19	0.98
*****	SITE MEAN *****	32.0	23.4	25.7	29.4	35.2	28.5	29.0	1.00	1.00
C.V. 1	C.V. 1	4.94	6.16	5.97	---	---	---	---	---	---
LSD .05	LSD (.05)	2.63	2.35	2.66	---	---	---	---	---	---

Table 7.

**1995 SPRING BARLEY DRYLAND INTRASTATE STATEWIDE SUMMARY  
PROTEIN PERCENT <sup>(1)</sup>**

ID	Pedigree	Havre	Sidney	Moccasin	Huntley	Conrad	Bozeman	Mean	BYX	RSQ
11231-11	Logan	10.0	11.3	8.5	11.8	9.8	11.6	10.5	1.01	0.89
2B894311	BA 2B89-4311	9.3	11.9	8.7	12.0	9.5	11.5	10.5	1.19	0.94
BA 1202	BA 1202	9.0	11.1	8.5	12.1	9.1	11.5	10.2	1.25	0.97
BA 1215	2B82-8529	9.1	11.1	8.7	10.9	8.8	12.3	10.1	1.19	0.92
BA 1614	BA 1614	9.7	11.8	9.6	11.5	9.5	11.6	10.6	0.91	0.95
BZ489-74	BZ489-74	10.3	13.3	9.2	11.3	10.8	14.4	11.5	1.35	0.70
CI 15229	Steptoe	9.3	10.4	9.5	11.8	8.7	10.2	10.0	0.73	0.65
CI 15514	Hector	10.0	11.7	10.1	11.5	9.6	12.3	10.9	0.88	0.91
CI 15773	Morex	9.6	11.7	9.0	11.3	8.9	12.0	10.4	1.14	0.94
CI 15856	Lewis	9.8	11.3	8.6	14.3	9.3	12.3	10.9	1.62	0.83
H1851195	MT41918/TR450	9.6	11.9	10.0	12.3	9.9	12.2	11.0	1.04	0.96
H3860224	Lewis/Apax	9.1	11.3	8.8	12.3	9.1	12.1	10.5	1.35	0.99
H5851161	MT 41918/MT 41279	9.0	11.6	10.0	11.8	8.9	12.0	10.6	1.11	0.87
H5870120	Lindy/Martin	9.4	10.5	9.8	11.4	9.0	10.4	10.1	0.60	0.70
MN 52	Excel	8.9	11.1	8.6	10.6	8.6	11.2	9.8	1.02	0.94
MT140523	Hector/Klages	9.7	11.4	8.8	11.9	10.0	12.2	10.7	1.11	0.96
MT886610	MT 81143/Lewis	9.1	11.1	8.8	11.5	9.1	12.0	10.3	1.18	0.99
MT890008	Fleet/Bowman	8.6	11.3	8.0	11.6	8.7	11.7	10.0	1.43	1.00
MT890018	Gallatin/Apex	9.5	11.4	9.4	11.6	9.3	12.3	10.6	1.09	0.97
MT890070	MT47219/Bowman	10.0	11.4	9.5	11.7	9.7	12.0	10.7	0.92	0.99
MT910033	Bowman/MT 81619	9.4	11.1	8.6	12.7	9.6	11.9	10.5	1.28	0.92
MT910150	MT 81143/MT 83444	10.3	11.8	9.1	11.6	9.8	12.5	10.9	1.05	0.92
MT910160	MT 81619/Bowman	9.2	11.2	9.0	11.8	9.4	11.4	10.3	1.04	0.98
MT910189	ND 7293/Bearpaw	9.2	10.8	9.2	11.3	8.8	11.2	10.1	0.93	0.96
MT920024	Harrington/MT 83592	10.4	11.6	9.1	11.9	9.4	12.2	10.8	1.06	0.92
MT920041	MT 81143/MT 81161	9.2	11.3	9.5	12.5	9.3	11.9	10.6	1.18	0.94
MT920053	MT 81143/MT140523	9.5	10.4	9.2	12.2	9.0	11.7	10.3	1.05	0.87
MT920070	MT 81161/MT 83518	9.7	11.3	8.3	12.2	9.8	11.5	10.5	1.14	0.89
MT920073	MT 81161/MT 83518	9.6	11.3	9.0	11.9	10.2	12.1	10.7	1.03	0.94
MT920161	MT 83424/MT 81161	10.1	11.5	9.1	12.4	9.6	12.5	10.9	1.20	0.97
MT920201	MT 83435/MT 81161	9.7	11.5	8.2	10.7	8.6	11.9	10.1	1.17	0.85
MT930013	Berolina/Gallatin	8.8	11.3	9.0	11.7	9.8	11.6	10.4	1.07	0.94
MT930029	Blenheim/Harrington	9.5	11.1	8.8	10.1	9.5	12.0	10.2	0.84	0.73
MT930047	Bowman/Bearpaw	9.9	12.2	9.4	12.1	10.1	12.1	11.0	1.06	0.96
MT930048	Bowman/Bearpaw	9.6	10.6	8.1	12.3	9.5	11.4	10.2	1.15	0.84
MT930049	Bowman/Bearpaw	10.4	11.8	10.2	12.5	10.6	12.2	11.3	0.82	0.97
MT930050	Bowman/MT851005	10.4	12.0	10.3	9.5	10.5	12.1	10.8	0.34	0.16
MT930051	Bowman/MT851005	9.6	12.4	9.7	11.8	10.1	12.4	11.0	1.08	0.93
MT930052	Bowman/MT851005	10.2	11.7	9.4	11.8	10.0	12.4	10.9	0.99	0.97
MT930056	Bowman/MT851005	9.9	11.9	9.4	12.3	10.2	12.4	11.0	1.10	0.99
MT930059	Bowman/MT851031	10.0	11.8	9.6	11.2	10.4	12.2	10.9	0.80	0.87

**Table 7 (Continued).**  
**1995 SPRING BARLEY DRYLAND INTRASTATE STATEWIDE SUMMARY**  
**PROTEIN PERCENT <sup>(1)</sup>**

ID	Pedigree	Havre	Sidney	Moccasin	Huntley	Conrad	Bozeman	Mean	BYX	RSQ
MT930065	Bowman/MT851032	10.0	11.9	10.2	12.0	10.9	12.7	11.3	0.85	0.90
MT930068	Bowman/MT851032	10.6	11.7	10.5	11.9	10.8	12.6	11.3	0.68	0.93
MT930069	Bowman/MT851032	9.9	11.7	11.1	11.4	10.4	12.5	11.2	0.62	0.64
MT930070	Bowman/MT851032	10.7	12.1	10.1	11.5	10.5	12.7	11.3	0.77	0.85
MT930071	Bowman/MT851032	10.9	11.8	10.8	12.4	10.5	12.6	11.5	0.72	0.94
MT930076	Clark/Bowman	10.2	11.9	9.8	11.7	10.4	12.6	11.1	0.90	0.94
MT930096	Gallatin/Bowman	10.3	11.6	9.0	11.8	9.7	11.9	10.7	0.98	0.93
MT930097	Gallatin/Bowman	10.0	11.6	9.6	12.4	10.1	11.7	10.9	0.92	0.94
MT930132	MT 81143/Bowman	9.6	11.3	9.3	12.5	10.0	11.5	10.7	0.99	0.90
MT930133	MT 81143/Bowman	10.0	11.1	10.8	12.0	10.2	11.9	11.0	0.61	0.77
MT930135	MT 81143/Bowman	9.6	11.4	10.0	12.1	9.6	11.4	10.7	0.85	0.89
MT930136	MT 81143/Bowman	10.1	11.8	11.0	12.5	10.6	11.7	11.3	0.63	0.74
MT930155	MT 83435/Bowman	10.0	12.7	9.8	11.7	9.9	12.5	11.1	1.07	0.89
MT930169	MT851012/Bowman	8.8	11.2	10.4	12.5	9.4	11.2	10.6	0.92	0.68
MT930203	MT851195/Bowman	10.1	12.3	10.3	11.4	10.3	12.6	11.2	0.84	0.84
MT930204	MT851195/Bowman	9.2	10.5	8.4	12.1	9.7	11.3	10.2	1.06	0.86
ND 9866	Stark	9.6	11.1	9.6	12.3	9.5	11.9	10.7	1.02	0.94
ND 11055	Foster	8.6	10.4	9.3	11.8	8.5	11.2	10.0	1.07	0.86
NS 78054	Baronesse	9.6	11.4	8.0	11.6	8.9	12.0	10.2	1.33	0.94
PI483237	Bowman	10.3	11.6	10.2	12.4	10.3	12.1	11.1	0.82	0.97
PI491534	Gallatin	9.6	10.8	9.2	11.8	9.4	11.6	10.4	0.94	0.96
PI591823	Chinook	9.7	10.6	9.9	11.3	10.3	12.2	10.7	0.69	0.77
SK 76333	Harrington	8.9	11.2	8.6	11.9	9.2	11.5	10.2	1.21	0.98
*****	SITE MEAN *****	9.7	11.4	9.4	11.8	9.7	12.0	10.7	1.00	1.00

<sup>(1)</sup> Results from Infratec 1225 Whole Grain Analyzer.

Table 8.

1995 SPRING BARLEY IRRIGATED INTRASTATE SUMMARY  
OVERALL SUMMARY <sup>(2)</sup>

ID	Pedigree	Yield (bu/ac)	Test Wt. (lb/bu)	Plump Percent	Heading Date	Plant Ht. (inches)	Protein Percent
NS 78054	Baronesse	116.2	51.9	90.4	179.7	30.6	10.6
MT890008	Fleet/Bowman	112.0	50.2	83.6	182.4	30.9	10.2
CI 15229	Steptoe	111.9	46.0	85.5	175.0	29.6	10.2
H3860224	Lewis/Apex	111.8	52.2	86.9	180.5	31.4	10.8
BA 1215	2B82-8529	109.3	51.6	86.0	180.1	33.1	10.6
H5870120	Lindy/Martin	108.1	46.2	89.6	174.7	29.8	10.1
MN 52	Excel	108.0	50.0	87.6	177.5	32.7	10.3
MT930013	Berolina/Gallatin	107.5	52.0	87.6	177.3	33.7	10.6
ND 9866	Stark	107.2	52.0	89.8	176.0	33.4	11.0
MT920201	MT 83435/MT 81161	106.5	51.3	88.3	179.9	33.0	10.8
MT930169	MT851012/Bowman	105.6	50.5	84.6	180.1	34.6	10.3
DA592-47	WPB DA 592-47	105.2	47.2	90.1	181.1	25.7	10.6
MT930203	MT851195/Bowman	104.8	50.2	86.4	178.0	32.2	11.3
BA 1614	BA 1614	102.5	49.3	91.2	178.2	34.8	10.8
H5851161	MT 41918/MT 41279	102.5	50.5	82.0	178.9	31.9	11.0
WPB94 4	Sissy	102.0	51.0	91.5	180.1	30.1	10.9
MT920073	MT 81161/MT 83518	101.7	51.2	85.2	177.6	29.9	10.9
MT910160	MT 81619/Bowman	101.7	52.5	91.8	180.5	33.2	10.9
MT930059	Bowman/MT851031	101.6	51.8	90.6	176.0	33.7	10.8
MT930155	MT 83435/Bowman	101.4	52.0	89.5	177.7	34.1	11.1
PI491534	Gallatin	101.2	51.5	80.3	178.9	32.9	10.5
MT886610	MT 81143/Lewis	101.1	51.3	84.6	179.0	33.2	10.8
ND 11055	Foster	100.9	49.3	93.3	177.1	33.5	10.6
BA 1202	BA 1202	100.9	49.9	87.8	179.8	31.5	10.4
PI591823	Chinook	100.7	51.0	82.9	179.0	31.5	11.2
MT910033	Bowman/MT 81619	99.8	51.6	88.2	175.8	31.3	10.8
CI 15478	Klages	99.7	49.5	71.3	181.8	34.4	10.5
CI 15856	Lewis	99.5	50.9	82.3	179.4	34.0	10.7
MT140523	Hector/Klages	99.5	49.8	77.1	178.2	34.0	11.1
MT910189	ND 7293/MT 81616	99.3	51.3	88.6	176.6	30.1	10.3
MT920041	MT 81143/MT 81161	99.2	50.5	87.5	177.2	31.5	11.2
H1851195	MT41918/TR450	98.8	50.7	87.6	178.7	31.2	10.8
MT930132	MT 81143/Bowman	98.4	50.7	89.7	176.6	33.4	10.8
MT930029	Blenheim/Harrington	98.2	51.1	88.3	179.7	34.3	10.9
MT920161	MT 83424/MT 81161	98.2	51.2	85.3	178.1	31.5	11.3
SK 76333	Harrington	98.1	49.6	83.2	179.9	33.0	10.8
*****	SITE MEAN *****	98.1	50.7	86.3	177.6	31.9	10.9
MT930135	MT 81143/Bowman	97.9	51.2	79.0	178.6	33.0	10.9
MT910150	MT 81143/MT 83444	97.8	51.9	86.8	177.3	30.9	11.3
MT890018	Gallatin/Apex	97.6	51.7	84.9	178.5	29.2	11.3
MT930136	MT 81143/Bowman	97.0	52.1	89.0	176.2	30.8	11.3

**Table 8 (Continued).**  
**1995 SPRING BARLEY IRRIGATED INTRASTATE SUMMARY**  
**OVERALL SUMMARY <sup>(2)</sup>**

ID	Pedigree	Yield (bu/ac)	Test Wt. (lb/bu)	Plump Percent	Heading Date	Plant Ht. (inches)	Protein Percent
CI 15514	Hector	96.5	50.8	80.4	179.6	33.4	10.9
C93 2	IdaGold	96.3	48.1	73.2	181.7	24.6	10.7
N1123111	Logan	96.3	51.2	88.4	177.1	32.0	10.8
MT930052	Bowman/MT851005	96.0	51.1	92.0	175.4	34.3	11.2
MT930204	MT851195/Bowman	95.8	50.1	87.5	176.7	33.1	10.6
MT920070	MT 81161/MT 83516	95.8	50.3	77.3	178.4	32.1	10.3
MT930049	Bowman/MT 81616	95.2	51.3	86.8	174.5	30.5	11.2
MT930047	Bowman/MT 81616	95.0	50.8	90.7	176.5	32.8	11.0
MT930133	MT 81143/Bowman	94.3	51.7	87.4	175.8	30.3	10.8
MT930050	Bowman/MT851005	94.1	51.3	90.3	174.9	32.2	11.3
MT890070	MT47219/Bowman	93.8	50.2	87.5	175.3	32.3	10.5
2B894311	BA 2B89-4311	93.8	50.5	83.6	179.4	33.6	10.8
MT930076	Clark/Bowman	91.5	51.2	85.0	175.3	31.4	11.1
MT930051	Bowman/MT851005	91.5	51.2	92.8	176.0	32.2	11.4
MT930056	Bowman/MT851005	89.5	50.8	89.1	175.3	32.2	11.5
BZ489-74	BZ 489-74	87.2	55.4	82.3	181.6	30.0	11.8
CI 15773	Morex	85.5	49.0	88.9	176.0	36.1	11.1
MT930087	Gallatin/Bowman	85.1	50.7	80.6	173.7	30.0	10.9
MT930096	Gallatin/Bowman	85.0	50.2	79.4	173.8	29.4	10.9
MT930068	Bowman/MT851032	84.6	51.0	89.5	174.0	31.3	11.3
MT930070	Bowman/MT851032	82.1	50.5	88.1	174.4	30.5	11.1
MT930069	Bowman/MT851032	81.8	50.6	89.4	174.4	31.4	11.6
MT930065	Bowman/MT851032	79.9	51.0	90.0	174.5	30.4	11.2
MT930071	Bowman/MT851032	79.2	51.0	88.4	174.5	31.0	11.5

<sup>(2)</sup> Ranked on yield in descending order.

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Table 9.

**1995 SPRING BARLEY IRRIGATED INTRASTATE SUMMARY  
YIELD (bu/ac)**

ID	Pedigree	Bozeman	Sidney	Kalispell	Huntley	Conrad	Mean	BYX	RSQ
2B894311	BA 2B89-4311	133.1	80.5	109.9	93.9	51.3	93.8	1.07	0.78
BA 1202	BA 1202	130.7	77.7	118.0	95.5	82.5	100.9	0.90	1.00
BA 1215	2B82-8529	125.8	94.0	135.1	103.7	87.9	109.3	0.74	0.85
BA 1614	BA 1614	131.5	86.3	106.9	100.3	87.7	102.5	0.68	0.89
BZ489-74	BZ 489-74	109.7	70.8	107.9	84.3	63.2	87.2	0.80	0.92
C93 2	IdaGold	136.4	77.5	110.9	105.6	51.2	96.3	1.13	0.76
CI 15229	Steptoe	137.1	70.0	157.3	105.1	90.0	111.9	1.28	0.85
CI 15478	Klages	132.4	86.6	124.0	80.5	74.9	99.7	0.96	0.85
CI 15514	Hector	130.4	70.2	110.9	83.9	86.9	96.5	0.91	0.93
CI 15773	Morex	109.3	74.3	102.9	76.4	64.8	85.5	0.73	0.91
CI 15856	Lewis	134.1	71.7	114.0	93.6	84.2	99.5	0.97	0.99
DA592-47	WFB DA 592-47	139.8	71.1	135.1	84.5	95.6	105.2	1.14	0.89
H1851195	MT41918/TR450	138.7	57.1	127.0	78.8	92.5	98.8	1.25	0.88
H3860224	Lewis/Apex	132.4	82.4	134.1	115.1	95.2	111.8	0.86	0.91
H5851161	MT 41918/MT 41279	130.3	68.1	139.1	86.7	88.5	102.5	1.13	0.88
H5870120	Lindy/Martin	136.1	78.6	137.1	104.7	83.9	108.1	1.07	0.96
MN 52	Excel	125.8	103.3	126.0	101.3	83.7	108.0	0.61	0.73
MT140523	Hector/Klages	136.1	77.3	131.1	95.4	57.8	99.5	1.25	0.88
MT886610	MT 81143/Lewis	130.7	63.8	119.0	97.3	94.6	101.1	0.96	0.90
MT890008	Fleet/Bowman	143.1	77.9	135.1	102.7	101.4	112.0	1.03	0.95
MT890018	Gallatin/Apex	133.7	80.0	103.9	105.9	64.7	97.6	0.91	0.76
MT890070	MT47219/Bowman	131.1	55.7	120.0	87.9	74.6	93.8	1.23	0.99
MT910033	Bowman/MT 81619	142.2	70.4	124.0	82.0	80.2	99.8	1.22	0.97
MT910150	MT 81143/MT 83444	134.7	63.8	119.0	88.4	83.2	97.8	1.11	0.98
MT910160	MT 81619/Bowman	123.8	78.9	123.0	99.4	83.1	101.7	0.82	0.96
MT910189	ND 7293/MT 81616	137.7	74.4	111.9	99.9	72.7	99.3	1.04	0.94
MT920041	MT 81143/MT 81161	136.3	63.7	119.0	93.0	83.8	99.2	1.12	0.98
MT920070	MT 81161/MT 83518	134.1	78.2	110.9	109.2	46.5	95.8	1.12	0.70
MT920073	MT 81161/MT 83518	139.5	62.8	125.1	90.6	90.7	101.7	1.17	0.95
MT920161	MT 83424/MT 81161	141.2	62.4	115.0	93.4	78.1	98.2	1.20	0.98
MT920201	MT 83435/MT 81161	138.9	73.1	120.0	101.9	98.5	106.5	0.93	0.92
MT930013	Berolina/Gallatin	130.5	88.9	124.0	102.2	91.7	107.5	0.74	0.99
MT930029	Blenheim/Harrington	127.4	86.5	127.0	90.7	59.5	98.2	1.01	0.78
MT930047	Bowman/MT 81616	128.0	72.7	105.9	84.2	84.2	95.0	0.84	0.94
MT930049	Bowman/MT 81616	129.1	62.4	117.0	95.6	72.1	95.2	1.11	0.98
MT930050	Bowman/MT851005	138.8	62.2	102.8	89.3	77.1	94.1	1.10	0.92
MT930051	Bowman/MT851005	130.5	60.7	100.8	90.2	75.2	91.5	1.01	0.93
MT930052	Bowman/MT851005	131.4	62.8	118.0	89.5	78.3	96.0	1.11	0.99
MT930056	Bowman/MT851005	124.0	52.1	105.9	85.7	79.9	89.5	1.03	0.93
MT930059	Bowman/MT851031	135.5	64.7	125.0	98.6	84.1	101.6	1.13	0.98
MT930065	Bowman/MT851032	98.7	46.3	108.9	75.7	69.7	79.9	0.90	0.85

Table 9 (Continued).

1995 SPRING BARLEY IRRIGATED INTRASTATE SUMMARY  
YIELD (bu/ac)

ID	Pedigree	Bozeman	Sidney	Kalispell	Huntley	Conrad	Mean	BYX	RSQ
MT930068	Bowman/MT851032	105.6	55.3	115.0	77.5	69.9	84.6	0.93	0.90
MT930069	Bowman/MT851032	106.2	53.1	104.9	72.8	71.9	81.8	0.88	0.94
MT930070	Bowman/MT851032	107.2	49.7	98.8	82.8	71.7	82.1	0.86	0.92
MT930071	Bowman/MT851032	108.7	45.4	93.8	76.2	71.8	79.2	0.90	0.91
MT930076	Clark/Bowman	125.2	73.4	106.9	89.0	62.8	91.5	0.95	0.92
MT930096	Gallatin/Bowman	123.1	57.1	101.9	83.4	59.4	85.0	1.10	0.98
MT930097	Gallatin/Bowman	125.9	57.8	97.8	83.1	60.7	85.1	1.08	0.95
MT930132	MT 81143/Bowman	144.5	64.2	113.9	84.2	85.1	98.4	1.19	0.93
MT930133	MT 81143/Bowman	139.7	60.2	111.9	92.7	67.0	94.3	1.27	0.97
MT930135	MT 81143/Bowman	135.2	70.1	107.9	83.8	92.6	97.9	0.91	0.86
MT930136	MT 81143/Bowman	128.8	69.0	125.0	92.5	69.7	97.0	1.12	0.97
MT930155	MT 83435/Bowman	133.0	73.0	122.0	92.9	86.0	101.4	0.99	0.99
MT930169	MT851012/Bowman	141.2	74.1	124.0	97.9	90.8	105.6	1.05	0.99
MT930203	MT851195/Bowman	135.8	69.1	133.1	95.0	91.1	104.8	1.11	0.95
MT930204	MT851195/Bowman	136.2	60.2	108.9	87.8	85.9	95.8	1.08	0.93
N1123111	Logan	135.9	85.4	113.9	73.1	73.0	96.3	0.97	0.79
ND 9866	Stark	131.0	81.1	132.1	101.1	90.8	107.2	0.90	0.96
ND 11055	Foster	125.0	82.8	109.9	102.0	84.6	100.9	0.68	0.95
NS 78054	Baronesse	139.0	88.7	130.1	121.8	101.7	116.2	0.78	0.91
PI491534	Gallatin	131.3	81.4	116.0	86.6	90.8	101.2	0.81	0.92
PI591823	Chinook	143.6	67.8	127.0	98.4	66.5	100.7	1.35	0.98
SK 76333	Harrington	133.6	77.1	121.0	87.7	71.3	98.1	1.06	0.95
WPB94 4	Sissy	125.7	78.8	116.0	93.6	96.1	102.0	0.71	0.93
*****	SITE MEAN *****	130.5	70.9	117.8	92.2	79.0	98.1	1.00	1.00
C.V. 1.	C.V.1 (S/MEAN) *100	4.37	10.14	8.28	9.53	7.74	---	---	---
LSD .05	LSD (.05)	9.91	11.61	15.73	14.19	10.70	---	---	---

**Table 10.**  
**1995 SPRING BARLEY IRRIGATED INTRASTATE SUMMARY**  
**TEST WEIGHT (lb/bu)**

ID	Pedigree	Bozeman	Sidney	Kalispell	Huntley	Conrad	Mean	BYX	RSQ
2B894311	BA 2B89-4311	53.7	45.0	48.9	52.2	51.8	50.3	1.11	0.88
BA 1202	BA 1202	52.0	43.0	49.7	49.8	52.7	49.4	1.30	0.98
BA 1215	2B82-8529	53.5	46.7	52.6	52.0	53.1	51.6	0.94	0.95
BA 1614	BA 1614	50.7	47.8	49.3	48.4	50.0	49.2	0.35	0.77
BZ489-74	BZ 489-74	57.4	55.3	61.2	56.6	48.0	55.7	-0.26	0.02
C93 2	IdaGold	52.7	42.7	48.3	48.4	47.0	47.8	1.06	0.74
CI 15229	Steptoe	49.6	41.0	46.1	46.4	46.9	46.0	1.04	0.94
CI 15478	Klages	52.5	44.3	50.6	46.8	51.9	49.2	1.10	0.82
CI 15514	Hector	53.4	45.5	50.9	50.4	53.3	50.7	1.09	0.99
CI 15773	Morex	51.1	45.0	48.8	48.7	50.4	48.8	0.81	0.99
CI 15856	Lewis	53.6	45.3	51.7	48.7	54.7	50.8	1.22	0.86
DA592-47	WFB DA 592-47	51.0	45.2	46.5	45.6	46.3	46.9	0.52	0.41
H1851195	MT41918/TR450	53.1	44.3	51.2	50.6	53.3	50.5	1.25	0.99
H3860224	Lewis/Apex	53.9	45.3	51.8	53.5	54.4	51.8	1.23	0.92
H5851161	MT 41918/MT 41279	53.8	43.3	50.4	50.1	53.1	50.1	1.42	1.00
H5870120	Lindy/Martin	49.5	40.3	45.9	45.9	47.9	45.9	1.19	0.99
MN 52	Excel	52.7	47.8	47.7	47.8	50.7	49.3	0.54	0.49
MT140523	Hector/Klages	53.0	44.7	49.7	50.7	50.1	49.6	0.99	0.90
MT886610	MT 81143/Lewis	53.0	45.3	52.2	51.8	54.3	51.3	1.16	0.94
MT890008	Fleet/Bowman	52.8	46.7	49.0	49.9	52.1	50.1	0.81	0.92
MT890018	Gallatin/Apex	54.5	47.3	50.2	52.3	53.7	51.6	0.95	0.92
MT890070	MT47219/Bowman	53.0	44.5	51.4	48.9	53.3	50.2	1.20	0.92
MT910033	Bowman/MT 81619	54.6	47.2	51.9	50.0	54.3	51.6	1.02	0.90
MT910150	MT 81143/MT 83444	54.1	46.3	52.0	52.1	55.4	52.0	1.17	0.96
MT910160	MT 81619/Bowman	53.9	48.5	52.5	52.6	55.2	52.5	0.83	0.93
MT910189	ND 7293/MT 81616	54.4	46.0	51.2	51.6	52.1	51.1	1.04	0.96
MT920041	MT 81143/MT 81161	52.4	43.3	51.0	50.0	54.2	50.2	1.38	0.94
MT920070	MT 81161/MT 83518	53.5	45.3	49.9	52.1	50.4	50.2	0.96	0.82
MT920073	MT 81161/MT 83518	54.4	46.3	50.7	49.0	54.7	51.0	1.13	0.85
MT920161	MT 83424/MT 81161	54.0	43.3	51.1	51.6	54.9	51.0	1.55	0.98
MT920201	MT 83435/MT 81161	53.5	46.7	51.7	51.6	54.4	51.6	1.01	0.97
MT930013	Berolina/Gallatin	53.5	48.2	51.1	52.4	54.0	51.8	0.77	0.93
MT930029	Blenheim/Harrington	52.9	47.7	50.6	52.1	50.4	50.7	0.59	0.73
MT930047	Bowman/MT 81616	53.4	45.0	50.9	50.9	53.6	50.8	1.18	0.99
MT930049	Bowman/MT 81616	53.5	46.2	51.4	51.3	53.1	51.1	1.01	1.00
MT930050	Bowman/MT851005	53.5	47.2	51.3	51.1	53.6	51.3	0.89	0.98
MT930051	Bowman/MT851005	53.7	46.8	51.8	50.5	53.3	51.2	0.93	0.96
MT930052	Bowman/MT851005	54.1	46.0	50.5	50.9	53.5	51.0	1.10	0.99
MT930056	Bowman/MT851005	53.8	46.7	50.8	50.3	52.8	50.9	0.93	0.98
MT930059	Bowman/MT851031	53.7	46.5	52.9	51.6	54.5	51.8	1.06	0.94
MT930065	Bowman/MT851032	52.8	47.7	51.1	51.4	53.0	51.2	0.73	0.99

**Table 10 (Continued).  
1995 SPRING BARLEY IRRIGATED INTRASTATE SUMMARY  
TEST WEIGHT (lb/bu)**

ID	Pedigree	Bozeman	Sidney	Kalispell	Huntley	Conrad	Mean	BYX	RSQ
MT930068	Bowman/MT851032	52.5	47.3	49.6	50.9	53.1	50.7	0.76	0.90
MT930069	Bowman/MT851032	52.6	45.2	50.8	52.5	52.3	50.7	1.03	0.90
MT930070	Bowman/MT851032	53.3	45.7	50.3	49.9	53.6	50.6	1.08	0.96
MT930071	Bowman/MT851032	53.0	45.7	50.1	53.0	53.3	51.0	1.05	0.88
MT930076	Clark/Bowman	54.0	46.8	50.5	52.2	52.3	51.2	0.90	0.93
MT930096	Gallatin/Bowman	53.3	45.2	47.4	51.3	53.1	50.1	1.12	0.81
MT930097	Gallatin/Bowman	53.5	45.5	49.5	51.1	53.2	50.6	1.10	0.96
MT930132	MT 81143/Bowman	53.4	45.2	51.5	50.9	53.1	50.8	1.13	0.98
MT930133	MT 81143/Bowman	54.2	45.5	51.5	52.3	54.7	51.6	1.25	0.98
MT930135	MT 81143/Bowman	53.8	45.2	51.2	51.8	54.2	51.2	1.23	0.98
MT930136	MT 81143/Bowman	54.2	46.2	52.9	52.1	54.3	51.9	1.14	0.97
MT930155	MT 83435/Bowman	53.8	46.8	52.4	52.2	54.1	51.9	1.00	0.98
MT930169	MT851012/Bowman	52.6	43.7	50.3	51.0	53.8	50.3	1.33	0.96
MT930203	MT851195/Bowman	53.1	43.7	50.6	51.2	52.1	50.1	1.27	0.97
MT930204	MT851195/Bowman	53.4	43.5	49.8	49.2	53.6	49.9	1.39	0.98
N1123111	Logan	53.0	47.0	51.4	51.7	52.7	51.2	0.82	0.98
ND 9866	Stark	54.4	47.8	52.4	50.8	54.5	52.0	0.92	0.93
ND 11055	Foster	51.9	46.3	47.8	48.8	51.0	49.2	0.71	0.83
NS 78054	Baronesse	53.8	47.3	50.8	53.2	52.2	51.5	0.81	0.85
PI491534	Gallatin	53.9	46.8	51.5	51.0	54.0	51.4	0.99	0.98
PI591823	Chinook	52.8	46.5	51.0	51.1	51.9	50.6	0.83	0.99
SK 76333	Harrington	52.5	43.7	50.4	49.3	51.1	49.4	1.16	0.97
WPB94 4	Sissy	52.5	47.8	50.5	51.1	52.9	51.0	0.68	0.96
*****	SITE MEAN *****	53.2	45.8	50.7	50.7	52.6	50.6	1.00	1.00
C.V. 1.	C.V.1 (S/MEAN) * 100	0.89	2.61	2.49	---	---	---	---	---
LSD .05	LSD (.05)	0.94	1.93	2.06	---	---	---	---	---

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**Table 11.**  
**1995 SPRING BARLEY IRRIGATED INTRASTATE SUMMARY**  
**PLUMP PERCENT (over # 6 screen)**

ID	Pedigree	Bozeman	Sidney	Kalispell	Huntley	Conrad	Mean	BYX	RSQ
PI591823	Chinook	86.7	61.7	89.0	87.9	89.0	82.9	1.22	0.96
2B894311	BA 2B89-4311	88.0	62.3	88.0	93.5	86.0	83.6	1.16	0.82
BA 1202	BA 1202	88.2	69.3	97.0	89.5	95.0	87.8	1.11	0.93
BA 1215	2B82-8529	86.5	65.7	95.0	86.7	96.0	86.0	1.24	0.94
BA 1614	BA 1614	93.2	84.0	95.0	89.0	95.0	91.2	0.47	0.89
BZ489-74	BZ 489-74	80.2	72.7	93.0	65.8	90.0	82.3	0.77	0.36
C93 2	IdaGold	84.2	51.7	78.0	83.3	69.0	73.2	1.13	0.64
CI 15229	Steptoe	96.7	64.0	97.0	80.0	90.0	85.5	1.33	0.83
CI 15478	Klages	83.2	67.3	84.0	39.0	83.0	71.3	0.61	0.09
CI 15514	Hector	88.0	61.7	81.0	77.2	94.0	80.4	1.20	0.86
CI 15773	Morex	93.0	80.7	93.0	91.6	86.0	88.9	0.43	0.57
CI 15856	Lewis	89.8	61.7	94.0	71.2	95.0	82.3	1.39	0.77
DA592-47	WPB DA 592-47	95.4	81.3	99.0	81.9	93.0	90.1	0.61	0.52
H1851195	MT41918/TR450	92.2	57.7	98.0	93.0	97.0	87.6	1.75	0.97
H3860224	Lewis/Apex	90.0	63.7	91.0	95.9	94.0	86.9	1.31	0.89
H5851161	MT 41918/MT 41279	88.8	57.0	88.0	84.1	92.0	82.0	1.49	1.00
H5870120	Lindy/Martin	96.3	68.7	96.0	97.9	89.0	89.6	1.13	0.78
MN 52	Excel	94.1	89.0	92.0	71.1	92.0	87.6	0.10	0.01
MT140523	Hector/Klages	85.8	62.3	85.0	82.5	70.0	77.1	0.76	0.48
MT886610	MT 81143/Lewis	82.0	64.7	94.0	89.4	93.0	84.6	1.17	0.85
MT890008	Fleet/Bowman	94.5	53.7	89.0	86.6	94.0	83.6	1.77	0.98
MT890018	Gallatin/Apex	91.8	69.0	80.0	94.7	89.0	84.9	0.85	0.60
MT890070	MT47219/Bowman	93.8	72.3	92.0	83.5	96.0	87.5	0.97	0.91
MT910033	Bowman/MT 81619	92.8	69.0	97.0	84.4	98.0	88.2	1.22	0.93
MT910150	MT 81143/MT 83444	87.8	68.0	92.0	89.3	97.0	86.8	1.14	0.96
MT910160	MT 81619/Bowman	94.5	78.0	97.0	90.5	99.0	91.8	0.86	0.96
MT910189	ND 7293/MT 81616	91.8	73.3	93.0	92.5	92.0	88.5	0.87	0.95
MT920041	MT 81143/MT 81161	87.2	70.3	97.0	87.2	96.0	87.5	1.06	0.89
MT920070	MT 81161/MT 83518	85.6	65.3	78.0	88.8	69.0	77.3	0.53	0.25
MT920073	MT 81161/MT 83518	88.5	74.7	90.0	75.8	97.0	85.2	0.76	0.58
MT920161	MT 83424/MT 81161	88.2	58.3	93.0	88.9	98.0	85.3	1.62	0.98
MT920201	MT 83435/MT 81161	90.5	71.0	93.0	93.0	94.0	88.3	1.00	0.95
MT930013	Berolina/Gallatin	87.6	72.3	91.0	91.3	96.0	87.6	0.91	0.91
MT930029	Blenheim/Harrington	91.1	80.7	92.0	92.9	85.0	88.3	0.38	0.47
MT930047	Bowman/MT 81616	92.5	75.0	95.0	91.9	99.0	90.7	0.95	0.97
MT930049	Bowman/MT 81616	92.5	68.3	91.0	87.1	95.0	86.8	1.12	0.99
MT930050	Bowman/MT851005	93.7	73.3	96.0	90.6	98.0	90.3	1.03	0.99
MT930051	Bowman/MT851005	95.6	78.7	97.0	94.6	98.0	92.8	0.84	1.00
MT930052	Bowman/MT851005	95.8	80.7	92.0	94.4	97.0	92.0	0.66	0.92
MT930056	Bowman/MT851005	93.0	74.7	88.0	92.1	98.0	89.1	0.87	0.88
MT930059	Bowman/MT851031	93.2	74.0	98.0	90.8	97.0	90.6	1.00	0.96

**Table 11 (Continued).**  
**1995 SPRING BARLEY IRRIGATED INTRASTATE SUMMARY**  
**PLUMP PERCENT (over # 6 screen)**

ID	Pedigree	Bozeman	Sidney	Kalispell	Huntley	Conrad	Mean	BYX	RSQ
MT930065	Bowman/MT851032	92.2	78.0	88.0	94.7	97.0	90.0	0.70	0.79
MT930068	Bowman/MT851032	91.3	76.3	87.0	94.9	98.0	89.5	0.77	0.75
MT930069	Bowman/MT851032	91.6	71.0	93.0	95.5	96.0	89.4	1.06	0.93
MT930070	Bowman/MT851032	91.8	76.7	86.0	88.1	98.0	88.1	0.73	0.78
MT930071	Bowman/MT851032	93.7	71.0	85.0	94.5	98.0	88.4	1.01	0.79
MT930076	Clark/Bowman	89.1	70.0	87.0	88.1	91.0	85.0	0.88	0.97
MT930096	Gallatin/Bowman	81.5	64.7	73.0	86.9	91.0	79.4	0.86	0.59
MT930097	Gallatin/Bowman	85.2	69.3	73.0	85.3	90.0	80.6	0.66	0.50
MT930132	MT 81143/Bowman	94.2	71.7	93.0	90.9	99.0	89.7	1.10	0.99
MT930133	MT 81143/Bowman	93.8	66.7	89.0	92.8	95.0	87.4	1.20	0.94
MT930135	MT 81143/Bowman	85.5	55.3	82.0	80.2	92.0	79.0	1.45	0.97
MT930136	MT 81143/Bowman	94.0	68.0	97.0	92.0	94.0	89.0	1.22	0.96
MT930155	MT 83435/Bowman	91.8	71.7	96.0	90.1	98.0	89.5	1.09	0.98
MT930169	MT851012/Bowman	89.2	59.7	93.0	88.9	92.0	84.6	1.45	0.97
MT930203	MT851195/Bowman	89.6	65.3	93.0	88.3	96.0	86.4	1.27	0.99
MT930204	MT851195/Bowman	92.5	70.7	94.0	83.2	97.0	87.5	1.08	0.92
N1123111	Logan	90.9	79.0	85.0	92.1	95.0	88.4	0.55	0.67
ND 9866	Stark	95.5	74.3	96.0	86.3	97.0	89.8	0.98	0.93
ND 11055	Foster	96.0	84.3	96.0	95.3	95.0	93.3	0.51	0.94
NS 78054	Baronesse	93.0	71.3	97.0	94.5	96.0	90.4	1.10	0.95
PI491534	Gallatin	84.5	59.0	86.0	77.9	94.0	80.3	1.35	0.95
SK 76333	Harrington	88.0	59.3	93.0	84.8	91.0	83.2	1.43	0.98
WPB94 4	Sissy	90.5	79.3	97.0	93.8	97.0	91.5	0.72	0.88
*****	SITE MEAN *****	90.6	69.7	90.9	87.3	93.1	86.3	1.00	1.00
C.V. 1	C.V. 1 (S/MEAN) * 100	2.03	8.88	----	----	----	----	----	----
LSD .05	LSD (.05)	3.67	10.00	----	----	----	----	----	----

Table 12.

**1995 SPRING BARLEY IRRIGATED INTRASTATE SUMMARY**  
**HEADING DATE (Days from Jan. 1)**

ID	Pedigree	Bozeman	Sidney	Kalispell	Huntley	Conrad	Mean	BYX	RSQ
2B894311	BA 2B89-4311	191.4	172.0	174.3	176.5	183.0	179.4	0.98	1.00
BA 1202	BA 1202	190.4	172.0	175.7	177.0	184.0	179.8	0.92	1.00
BA 1215	2B82-8529	191.9	172.7	175.0	177.0	184.0	180.1	0.98	0.99
BA 1614	BA 1614	189.4	171.0	174.3	173.5	183.0	178.2	0.96	0.98
BZ489-74	BZ 489-74	191.0	172.7	178.0	180.5	186.0	181.6	0.87	0.96
C93 2	IdaGold	191.4	173.3	179.0	178.0	187.0	181.7	0.90	0.96
CI 15229	Steptoe	187.1	167.3	168.7	172.0	180.0	175.0	1.04	0.99
CI 15478	Klages	193.0	173.0	178.0	180.0	185.0	181.8	0.95	0.99
CI 15514	Hector	190.7	170.3	174.3	178.5	184.0	179.6	1.00	0.98
CI 15773	Morex	188.3	168.0	170.0	171.5	182.0	176.0	1.09	0.98
CI 15856	Lewis	190.6	171.3	174.3	176.5	184.0	179.4	0.98	0.99
DA592-47	WFB DA 592-47	193.4	172.3	177.0	177.0	186.0	181.1	1.05	0.99
H1851195	MT41918/TR450	189.7	169.3	173.3	178.0	183.0	178.7	0.99	0.97
H3860224	Lewis/Apex	189.7	172.0	177.3	177.5	186.0	180.5	0.88	0.96
H5851161	MT 41918/MT 41279	190.6	170.7	173.0	177.0	183.0	178.9	1.01	0.99
H5870120	Lindy/Martin	186.6	168.3	168.7	172.0	178.0	174.7	0.96	0.98
MN 52	Excel	189.0	169.0	174.3	173.0	182.0	177.5	0.99	0.98
MT140523	Hector/Klages	189.9	170.7	171.7	175.5	183.0	178.2	1.02	0.99
MT886610	MT 81143/Lewis	190.0	170.7	174.3	177.0	183.0	179.0	0.95	0.99
MT890008	Fleet/Bowman	194.4	173.7	178.3	180.5	185.0	182.4	0.98	0.99
MT890018	Gallatin/Apex	189.0	170.7	174.3	175.5	183.0	178.5	0.93	1.00
MT890070	MT47219/Bowman	189.3	167.0	169.7	171.5	179.0	175.3	1.12	0.99
MT910033	Bowman/MT 81619	189.0	168.0	170.0	172.0	180.0	175.8	1.08	0.99
MT910150	MT 81143/MT 83444	189.3	168.7	171.7	175.0	182.0	177.3	1.04	0.99
MT910160	MT 81619/Bowman	192.0	171.7	177.0	177.0	185.0	180.5	1.00	0.99
MT910189	ND 7293/MT 81616	189.0	168.7	173.0	172.0	180.0	176.5	1.00	0.98
MT920041	MT 81143/MT 81161	189.7	169.3	172.7	174.5	180.0	177.2	0.99	0.99
MT920070	MT 81161/MT 83518	189.9	171.0	173.3	175.5	182.0	178.4	0.96	1.00
MT920073	MT 81161/MT 83518	189.3	169.3	171.3	176.0	182.0	177.6	1.02	0.99
MT920161	MT 83424/MT 81161	189.1	170.3	173.3	174.5	183.0	178.1	0.97	0.99
MT920201	MT 83435/MT 81161	192.0	172.3	176.0	177.0	182.0	179.9	0.94	0.98
MT930013	Berolina/Gallatin	189.3	168.7	173.7	173.0	182.0	177.3	1.03	0.99
MT930029	Blenheim/Harrington	190.6	171.3	176.3	177.0	183.0	179.7	0.92	0.99
MT930047	Bowman/MT 81616	187.7	168.7	172.3	174.0	180.0	176.5	0.93	0.99
MT930049	Bowman/MT 81616	187.4	167.0	169.0	171.0	178.0	174.5	1.04	0.99
MT930050	Bowman/MT851005	187.7	168.0	169.7	172.0	179.0	174.9	1.08	1.00
MT930051	Bowman/MT851005	188.7	168.3	170.0	173.0	180.0	176.0	1.05	0.99
MT930052	Bowman/MT851005	187.7	167.7	168.3	173.5	180.0	175.4	1.05	0.98
MT930056	Bowman/MT851005	188.0	166.7	169.3	172.5	180.0	175.3	1.09	1.00
MT930059	Bowman/MT851031	188.3	168.0	171.0	172.5	180.0	176.0	1.03	1.00
MT930065	Bowman/MT851032	187.3	166.3	169.7	171.0	178.0	174.5	1.04	0.99

**Table 12 (Continued).**  
**1995 SPRING BARLEY IRRIGATED INTRASTATE SUMMARY**  
**HEADING DATE (Days from Jan. 1)**

ID	Pedigree	Bozeman	Sidney	Kalispell	Huntley	Conrad	Mean	BYX	RSQ
MT930068	Bowman/MT851032	186.9	165.7	168.0	171.5	178.0	174.0	1.07	0.99
MT930069	Bowman/MT851032	187.0	165.3	169.0	171.5	179.0	174.4	1.09	1.00
MT930070	Bowman/MT851032	187.1	166.3	169.7	171.0	178.0	174.4	1.03	0.99
MT930071	Bowman/MT851032	187.3	166.0	169.0	172.0	178.0	174.5	1.06	1.00
MT930076	Clark/Bowman	187.7	167.3	169.7	172.0	180.0	175.3	1.05	1.00
MT930096	Gallatin/Bowman	187.6	164.7	167.7	171.0	178.0	173.8	1.16	1.00
MT930097	Gallatin/Bowman	186.7	165.0	168.0	171.0	178.0	173.7	1.09	1.00
MT930132	MT 81143/Bowman	188.3	168.3	172.7	173.5	180.0	176.6	0.97	0.99
MT930133	MT 81143/Bowman	188.0	167.3	170.7	173.0	180.0	175.8	1.04	1.00
MT930135	MT 81143/Bowman	189.7	171.0	173.7	175.5	183.0	178.6	0.96	1.00
MT930136	MT 81143/Bowman	188.7	168.3	171.0	173.0	180.0	176.2	1.03	1.00
MT930166	MT 83435/Bowman	189.4	169.7	173.0	175.5	181.0	177.7	0.97	1.00
MT930169	MT851012/Bowman	190.6	171.7	175.3	179.0	184.0	180.1	0.92	0.98
MT930203	MT851195/Bowman	189.3	170.0	173.3	175.5	182.0	178.0	0.96	1.00
MT930204	MT851195/Bowman	188.7	168.3	171.7	175.0	180.0	176.7	0.99	0.99
N1123111	Logan	188.7	168.0	173.3	173.5	182.0	177.1	1.02	0.99
ND 9866	Stark	187.6	168.7	171.7	172.0	180.0	176.0	0.97	0.99
ND 11055	Foster	188.6	168.7	174.3	172.0	182.0	177.1	1.00	0.97
NS 78054	Baronesse	190.8	171.3	176.3	176.0	184.0	179.7	0.96	0.99
PI491534	Gallatin	191.3	170.0	174.0	177.0	182.0	178.9	1.03	0.99
PI591823	Chinook	189.9	170.3	175.3	176.5	183.0	179.0	0.95	1.00
SK 76333	Harrington	190.3	172.0	176.3	177.0	184.0	179.9	0.90	0.99
WPB94 4	Sissy	189.7	170.0	177.3	177.5	186.0	180.1	0.95	0.94
*****	SITE MEAN *****	189.3	169.4	172.8	174.7	181.7	177.6	1.00	1.00
C.V. 1	C.V. 1 (S/MEAN) * 100	0.34	0.45	0.59	0.59	---	---	---	---
LSD .05	LSD (.05)	1.05	1.24	1.64	2.06	---	---	---	---

Table 13.

## 1995 SPRING BARLEY IRRIGATED INTRASTATE SUMMARY

## PLANT HEIGHT (inches)

ID	Pedigree	Bozeman	Sidney	Kalispell	Huntley	Conrad	Mean	BYX	RSQ
PI591823	Chinook	35.4	24.5	36.8	28.0	33.0	31.5	1.11	0.80
2B894311	BA 2B89-4311	34.2	26.6	34.1	37.0	36.0	33.6	0.80	0.66
BA 1202	BA 1202	33.3	25.2	36.1	31.0	32.0	31.5	0.94	0.95
BA 1215	2B82-8529	35.8	24.8	38.7	28.0	38.0	33.1	1.34	0.78
BA 1614	BA 1614	32.5	29.3	38.1	35.0	39.0	34.8	0.83	0.74
BZ489-74	BZ 489-74	31.9	23.5	33.5	30.0	31.0	30.0	0.91	0.97
C93 2	IdaGold	26.8	22.1	24.9	23.0	26.0	24.6	0.35	0.53
CI 15229	Steptoe	28.9	23.1	34.1	26.0	36.0	29.6	1.09	0.70
CI 15478	Klages	36.2	25.3	37.4	34.0	39.0	34.4	1.24	0.91
CI 15514	Hector	36.6	27.2	40.0	29.0	34.0	33.4	1.09	0.72
CI 15773	Morex	33.7	28.1	42.0	35.0	42.0	36.1	1.28	0.80
CI 15856	Lewis	35.8	25.2	36.8	33.0	39.0	34.0	1.21	0.88
DA592-47	WPB DA 592-47	28.5	19.8	26.2	28.0	26.0	25.7	0.67	0.64
H1851195	MT41918/TR450	33.7	24.0	37.4	25.0	36.0	31.2	1.26	0.69
H3860224	Lewis/Apex	33.9	24.4	32.8	35.0	31.0	31.4	0.81	0.64
H5851161	MT 41918/MT	34.2	25.1	35.4	30.0	35.0	31.9	1.01	0.91
H5870120	Lindy/Martin	27.6	23.1	33.5	27.0	38.0	29.8	1.08	0.58
MN 52	Excel	31.9	25.7	36.1	35.0	35.0	32.7	0.95	0.87
MT140523	Hector/Klages	35.0	25.5	36.8	37.0	36.0	34.0	1.09	0.86
MT886610	MT 81143/Lewis	35.2	24.4	37.4	34.0	35.0	33.2	1.21	0.98
MT890008	Fleet/Bowman	33.9	25.1	34.8	30.0	31.0	30.9	0.86	0.87
MT890018	Gallatin/Apex	29.5	23.5	32.1	28.0	33.0	29.2	0.86	0.88
MT890070	MT47219/Bowman	31.9	25.5	36.1	34.0	34.0	32.3	0.95	0.93
MT910033	Bowman/MT 81619	34.1	25.2	34.1	33.0	30.0	31.3	0.78	0.73
MT910150	MT 81143/MT	33.9	24.7	36.1	25.0	35.0	30.9	1.09	0.65
MT910160	MT 81619/Bowman	36.2	27.2	36.8	35.0	31.0	33.2	0.80	0.66
MT910189	ND 7293/MT 81616	29.9	25.1	33.5	32.0	30.0	30.1	0.70	0.83
MT920041	MT 81143/MT	35.0	22.1	35.4	34.0	31.0	31.5	1.22	0.82
MT920070	MT 81161/MT	34.2	26.0	35.4	34.0	31.0	32.1	0.81	0.78
MT920073	MT 81161/MT	33.1	25.2	32.1	28.0	31.0	29.9	0.68	0.76
MT920161	MT 83424/MT	31.5	23.4	34.8	33.0	35.0	31.5	1.10	0.91
MT920201	MT 83435/MT	35.2	25.5	38.1	30.0	36.0	33.0	1.17	0.90
MT930013	Berolina/Gallatin	33.3	27.3	40.0	32.0	36.0	33.7	1.08	0.89
MT930029	Blenheim/Harrington	35.2	26.1	38.1	36.0	36.0	34.3	1.10	0.95
MT930047	Bowman/MT 81616	33.1	27.0	38.1	28.0	38.0	32.8	1.04	0.67
MT930049	Bowman/MT 81616	30.5	24.7	36.1	30.0	31.0	30.5	0.93	0.91
MT930050	Bowman/MT851005	33.7	25.3	36.1	34.0	32.0	32.2	0.93	0.88
MT930051	Bowman/MT851005	33.5	25.5	38.1	29.0	35.0	32.2	1.12	0.87
MT930052	Bowman/MT851005	33.3	27.0	38.1	37.0	36.0	34.3	0.98	0.85
MT930056	Bowman/MT851005	34.1	24.8	38.1	30.0	34.0	32.2	1.17	0.93
MT930059	Bowman/MT851031	34.2	23.4	38.7	36.0	36.0	33.7	1.40	0.95

**Table 13 (Continued).**  
**1995 SPRING BARLEY IRRIGATED INTRASTATE SUMMARY**  
**PLANT HEIGHT (inches)**

ID	Pedigree	Bozeman	Sidney	Kalispell	Huntley	Conrad	Mean	BYX	RSQ
MT930065	Bowman/MT851032	31.5	24.5	36.8	29.0	30.0	30.4	0.97	0.83
MT930068	Bowman/MT851032	31.7	24.1	36.8	32.0	32.0	31.3	1.07	0.96
MT930069	Bowman/MT851032	31.7	25.1	35.4	32.0	33.0	31.4	0.92	0.98
MT930070	Bowman/MT851032	30.3	23.0	36.1	32.0	31.0	30.5	1.10	0.92
MT930071	Bowman/MT851032	31.5	25.2	36.1	32.0	30.0	31.0	0.86	0.83
MT930076	Clark/Bowman	31.7	24.6	36.8	34.0	30.0	31.4	0.97	0.77
MT930096	Gallatin/Bowman	29.9	22.6	33.5	30.0	31.0	29.4	0.98	0.99
MT930097	Gallatin/Bowman	29.9	23.5	35.4	31.0	30.0	30.0	0.97	0.89
MT930132	MT 81143/Bowman	32.3	24.9	36.8	37.0	36.0	33.4	1.10	0.80
MT930133	MT 81143/Bowman	31.9	24.4	36.1	28.0	31.0	30.3	0.98	0.86
MT930135	MT 81143/Bowman	35.4	26.0	35.4	32.0	36.0	33.0	0.97	0.91
MT930136	MT 81143/Bowman	32.3	24.7	36.1	30.0	31.0	30.8	0.96	0.92
MT930155	MT 83435/Bowman	32.3	26.6	38.7	38.0	35.0	34.1	1.02	0.74
MT930169	MT851012/Bowman	37.0	24.7	37.4	35.0	39.0	34.6	1.32	0.91
MT930203	MT851195/Bowman	32.3	25.9	38.7	31.0	33.0	32.2	1.05	0.89
MT930204	MT851195/Bowman	32.7	24.3	38.7	36.0	34.0	33.1	1.23	0.88
N1123111	Logan	32.7	25.1	35.4	35.0	32.0	32.0	0.91	0.82
ND 9866	Stark	33.9	25.6	36.8	33.0	36.0	33.4	1.11	0.91
ND 11055	Foster	32.3	26.8	37.4	36.0	35.0	33.5	0.93	0.84
NS 78054	Baronesse	31.5	24.9	31.5	32.0	33.0	30.6	0.70	0.81
PI491534	Gallatin	35.0	26.9	37.4	30.0	35.0	32.9	0.96	0.86
SK 76333	Harrington	35.0	24.4	37.4	33.0	35.0	33.0	1.21	0.99
WPB94 4	Sissy	28.7	25.7	34.1	31.0	31.0	30.1	0.68	0.82
*****	SITE MEAN	32.9	25.0	36.0	31.8	33.8	31.9	1.00	1.00
C.V. 1	C.V. 1 (S/MEAN)* 100	3.44	7.15	4.31	---	---	---	---	---
LSD .05	LSD (.05)	2.26	2.89	2.51	---	---	---	---	---

**Table 14.**  
**1995 SPRING BARLEY IRRIGATED INTRASTATE SUMMARY**  
**PROTEIN PERCENT <sup>(1)</sup>**

ID	Pedigree	Bozeman	Sidney	Kalispell	Huntley	Conrad	Mean	BYX	RSQ
2B894311	BA 2B89-4311	10.7	12.1	10.2	11.8	9.3	10.8	1.00	0.76
BA 1202	BA 1202	10.6	11.7	10.8	10.4	8.6	10.4	1.10	0.95
BA 1215	2B82-8529	11.1	11.6	10.6	10.6	8.9	10.6	1.01	0.98
BA 1614	BA 1614	11.4	12.0	11.0	10.8	8.9	10.8	1.15	0.97
BZ489-74	BZ 489-74	13.3	13.9	12.2	10.2	9.5	11.8	1.56	0.66
C93 2	IdaGold	10.9	12.2	10.4	11.7	8.3	10.7	1.46	0.93
CI 15229	Steptoe	10.4	10.7	9.9	10.7	9.2	10.2	0.58	0.83
CI 15478	Klages	11.3	12.0	10.2	10.9	8.2	10.5	1.43	0.96
CI 15514	Hector	11.4	12.1	11.0	10.9	9.2	10.9	1.06	0.98
CI 15773	Morex	12.0	12.0	11.0	11.5	9.0	11.1	1.19	0.92
CI 15856	Lewis	11.2	12.5	10.9	10.0	8.9	10.7	1.23	0.84
DA592-47	WFB DA 592-47	10.7	12.1	10.6	11.6	8.2	10.6	1.44	0.94
H1851195	MT41918/TR450	11.3	12.2	11.1	9.7	9.7	10.8	0.82	0.57
H3860224	Lewis/Apex	11.2	12.5	10.4	11.5	8.5	10.8	1.46	0.96
H5851161	MT 41918/MT 41279	10.9	12.4	10.6	11.6	9.4	11.0	1.05	0.88
H5870120	Lindy/Martin	10.4	11.0	10.2	10.4	8.3	10.1	1.02	0.98
MN 52	Excel	10.9	11.5	10.3	10.7	7.9	10.3	1.38	0.98
MT140523	Hector/Klages	11.2	12.6	10.9	10.9	9.9	11.1	0.89	0.84
MT886610	MT 81143/Lewis	10.9	11.8	10.9	11.8	8.5	10.8	1.27	0.88
MT890008	Fleet/Bowman	10.9	11.6	10.5	10.8	7.4	10.2	1.61	0.97
MT890018	Gallatin/Apex	12.1	12.7	10.8	11.0	10.0	11.3	0.96	0.81
MT890070	MT47219/Bowman	10.8	11.7	10.6	10.2	9.4	10.5	0.79	0.88
MT910033	Bowman/MT 81619	11.3	11.9	11.0	10.5	9.0	10.8	1.06	0.93
MT910150	MT 81143/MT 83444	11.4	12.5	11.5	11.5	9.4	11.3	1.12	0.98
MT910160	MT 81619/Bowman	10.8	11.9	10.8	11.9	8.9	10.9	1.13	0.85
MT910189	ND 7293/MT 81616	10.7	11.6	10.7	10.5	8.2	10.3	1.26	0.98
MT920041	MT 81143/MT 81161	10.9	11.9	11.2	13.1	8.9	11.2	1.20	0.61
MT920070	MT 81161/MT 83518	10.7	11.9	10.4	9.5	9.2	10.3	0.88	0.68
MT920073	MT 81161/MT 83518	11.2	12.1	11.0	11.4	9.0	10.9	1.15	0.98
MT920161	MT 83424/MT 81161	11.3	12.9	11.0	11.8	9.5	11.3	1.19	0.93
MT920201	MT 83435/MT 81161	11.2	11.8	10.9	11.2	9.1	10.8	1.01	0.98
MT930013	Berolina/Gallatin	10.9	11.7	11.1	10.5	8.8	10.6	1.06	0.93
MT930029	Blenheim/Harrington	11.6	12.2	11.0	10.8	8.9	10.9	1.22	0.96
MT930047	Bowman/MT 81616	11.2	12.2	11.1	11.3	9.4	11.0	1.02	1.00
MT930049	Bowman/MT 81616	11.4	11.7	11.2	11.2	10.4	11.2	0.48	0.97
MT930050	Bowman/MT851005	11.1	11.8	11.4	11.8	10.3	11.3	0.55	0.79
MT930051	Bowman/MT851005	11.7	12.3	11.4	11.7	10.0	11.4	0.86	1.00
MT930052	Bowman/MT851005	11.5	12.1	11.0	11.6	9.7	11.2	0.90	0.97
MT930056	Bowman/MT851005	11.5	12.3	11.2	11.9	10.7	11.5	0.56	0.83
MT930059	Bowman/MT851031	11.4	11.8	11.3	10.3	9.4	10.8	0.87	0.79
MT930065	Bowman/MT851032	11.9	12.0	11.6	9.9	10.7	11.2	0.42	0.22

**Table 14 (Continued).**  
**1995 SPRING BARLEY IRRIGATED INTRASTATE SUMMARY**  
**PROTEIN PERCENT <sup>(1)</sup>**

ID	Pedigree	Bozeman	Sidney	Kalispell	Huntley	Conrad	Mean	BYX	RSQ
MT930068	Bowman/MT851032	11.8	12.3	11.4	11.3	9.9	11.3	0.88	0.97
MT930069	Bowman/MT851032	11.8	12.3	11.6	11.7	10.7	11.6	0.58	1.00
MT930070	Bowman/MT851032	11.6	12.1	11.3	10.6	9.9	11.1	0.78	0.83
MT930071	Bowman/MT851032	11.9	12.1	11.5	11.7	10.4	11.5	0.66	0.96
MT930076	Clark/Bowman	11.5	12.1	11.4	10.8	9.9	11.1	0.78	0.88
MT930096	Gallatin/Bowman	11.1	11.8	10.7	11.0	9.7	10.9	0.76	0.98
MT930097	Gallatin/Bowman	10.9	11.8	10.7	11.8	9.5	10.9	0.86	0.82
MT930132	MT 81143/Bowman	10.8	11.7	11.0	11.1	9.3	10.8	0.88	0.97
MT930133	MT 81143/Bowman	11.1	11.7	10.9	10.8	9.6	10.8	0.76	0.99
MT930135	MT 81143/Bowman	10.4	11.8	11.4	11.2	9.9	10.9	0.63	0.66
MT930136	MT 81143/Bowman	10.8	12.0	11.6	11.9	10.2	11.3	0.63	0.66
MT930155	MT 83435/Bowman	11.6	12.5	11.3	10.7	9.6	11.1	1.01	0.89
MT930169	MT851012/Bowman	10.7	11.7	10.1	10.1	9.0	10.3	0.93	0.90
MT930203	MT851195/Bowman	11.4	12.1	11.2	11.2	10.4	11.3	0.59	0.94
MT930204	MT851195/Bowman	10.6	11.7	10.5	11.1	9.0	10.6	0.98	0.95
N1123111	Logan	11.2	11.7	11.0	11.6	8.5	10.8	1.25	0.90
ND 9866	Stark	11.3	11.9	11.0	11.4	9.2	11.0	1.03	0.98
ND 11055	Foster	10.8	11.2	10.4	11.3	9.1	10.6	0.83	0.86
NS 78054	Baronesse	11.2	11.8	10.5	11.1	8.5	10.6	1.25	0.98
PI491534	Gallatin	10.8	11.5	10.6	11.1	8.6	10.5	1.10	0.96
PI591823	Chinook	11.4	12.4	11.0	11.6	9.7	11.2	0.98	0.97
SK 76333	Harrington	10.9	11.8	10.5	11.8	9.1	10.8	1.03	0.85
WPB94 4	Sissy	12.3	12.1	11.0	10.6	8.5	10.9	1.41	0.85
*****	SITE MEAN *****	11.2	12.0	10.9	11.1	9.3	10.9	1.00	1.00

<sup>(1)</sup> Results from Infratec 1225 Whole Grain Analyzer.