

PROJECT TITLE:

Statewide Barley Performance

YEAR: 1993

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.

Yield data are summarized for each location in Tables 1 and 3 for dryland and irrigated, respectively. Other traits are presented as statewide averages in Tables 2 and 4 for dryland and irrigated, respectively. Dryland yields were exceptionally high due to abundant rainfall, and approached irrigated levels at Bozeman, Conrad, Havre, and Moccasin. Therefore, the 1993 dryland trials do not indicate which varieties may be superior for dry to average conditions.

Top yielders included Baronesse, Steptoe, and Medallion. Baronesse, a two-row, was fairly late to mature (similar to Harrington) and thus may be more vulnerable to dry conditions than earlier maturing varieties. Steptoe and Medallion are six-row types, and usually have low test weight on dryland.

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 Table 1. 1993 SPRING BARLEY DRYLAND INTRASTATE STATEWIDE SUMMARY  
 YIELD (bu/ac)

ID	Pedigree	Havre	Sidney	Moccasin	Huntley	Conrad	Bozeman	Mean	BYX	RSQ
12140523	MT140523 HR 12	96.3	56.6	86.1	58.1	83.9	125.7	84.4	0.92	0.99
20140523	MT140523 HR20	97.8	49.7	88.2	54.7	82.6	138.0	85.2	1.14	0.98
21140523	MT140523 HR21	110.7	53.3	86.7	55.3	80.1	143.9	88.3	1.21	0.95
2B885133	BA 2B88-5133	86.6	55.0	76.0	48.5	89.5	119.5	79.2	0.90	0.95
2B885648	BA 2B88-5648	111.2	67.8	98.4	57.4	88.9	120.5	90.7	0.84	0.92
863829H7	Princesse/Regatta	109.7	71.4	93.4	66.4	99.7	109.3	91.6	0.61	0.83
BA 1202	BA 1202	102.0	51.9	88.2	62.1	96.6	115.3	86.0	0.84	0.93
BA 1215	2B82-8529(BA 8529)	115.8	62.4	97.8	53.5	97.0	128.1	92.4	1.01	0.93
BA 1614	BA 1614	97.1	54.4	93.2	49.3	83.4	139.7	86.2	1.17	0.99
BZ489-29*	WPB BZ 489-29	83.5	27.3	57.2	32.0	--	106.4	50.3	1.01	0.49
CI 15229	Steptoe	98.6	62.4	112.0	61.0	88.2	165.1	97.9	1.32	0.92
CI 15514	Hector	91.2	49.4	97.3	53.8	85.4	116.9	82.3	0.91	0.95
CI 15856	Lewis	104.9	59.2	94.5	56.2	97.8	127.4	90.0	0.98	0.98
H1281161	MT 81161-HR12	99.2	45.7	89.2	55.9	89.0	130.3	84.9	1.09	0.99
H1381161	MT 81161-HR13	95.8	49.7	92.1	52.2	92.0	135.9	86.3	1.14	0.99
H1851195	MT41918/TR450	100.6	60.5	91.5	56.7	97.6	136.1	90.5	1.04	0.99
H2860224	Lewis/Apex	98.0	56.4	85.7	57.5	92.9	135.5	87.7	1.04	0.98
H3851032	Harrington/Clark	94.2	56.4	85.0	49.8	84.7	130.4	83.4	1.03	0.99
H3860224	Lewis/Apex	101.8	58.3	106.9	67.0	98.1	127.2	93.2	0.91	0.96
H5860219	Lewis/Apex	99.2	57.0	93.0	60.4	94.4	119.5	87.3	0.85	0.98
H5860224	Lewis/Apex	96.9	58.1	91.3	58.2	92.2	122.5	86.5	0.88	0.99
H5870120	Lindy/Martin	86.9	61.0	105.6	62.1	91.1	158.2	94.1	1.21	0.89
H6851032	Harrington/Clark	97.7	47.9	98.7	49.9	88.0	119.7	83.7	1.01	0.96
H6860756	Gallatin/Bellona	95.7	64.9	103.1	61.7	90.6	121.7	89.6	0.80	0.95
H881161	MT 81161 -HR8	91.4	52.4	89.7	55.1	95.2	121.6	84.2	0.93	0.97
MT 81161	Lewis//Kgs/Smt	100.0	54.2	85.5	51.6	85.4	122.1	83.1	0.96	0.99
MT 83435	Clark/TR450	94.3	45.8	98.7	60.4	95.1	130.5	87.5	1.06	0.96
MT140523	Hector/Klages	99.9	60.1	87.5	55.6	96.2	137.7	89.5	1.06	0.98
MT851032	Harrington/Clark	99.3	53.7	88.2	55.4	84.5	114.3	82.6	0.85	0.97
MT851195	MT41918/TR450	90.3	57.8	91.8	53.0	99.2	128.8	86.8	0.98	0.95
MT860756	Gallatin/Bellona	88.9	60.6	102.9	59.5	96.9	124.2	88.8	0.87	0.93
MT861596	Lewis/MT 41549	90.5	56.6	92.0	57.7	90.2	133.9	86.8	1.01	0.98
MT886610	MT 81143/Lewis	101.2	51.0	90.3	59.6	93.9	132.4	88.1	1.05	0.99
MT889106	Apex/Lewis	76.4	42.0	83.1	47.8	80.2	131.8	76.9	1.12	0.95
MT890008	Fleet/Bowman	119.7	65.0	105.2	67.5	104.4	125.3	97.8	0.88	0.91
MT890018	Gallatin/Apex	97.5	53.8	81.8	63.9	87.0	134.4	86.4	0.99	0.95
MT890070	MT47219/Bowman	91.0	53.7	89.3	51.6	90.1	143.5	86.5	1.18	0.97
MT890128	Steptoe/Robust	97.6	51.8	107.1	54.5	95.4	147.2	92.3	1.26	0.98
MT900002	Bowman/Apex	93.5	60.3	89.7	55.4	88.8	108.5	82.7	0.72	0.96
MT900071	Hector/Bowman	96.1	52.8	94.5	53.0	90.2	141.9	88.1	1.18	0.99
MT900111	Menuet/Bowman	86.0	42.0	86.3	51.3	83.0	138.8	81.2	1.20	0.97

Table 1 cont. 1993 SPRING BARLEY DRYLAND INTRASTATE STATEWIDE SUMMARY  
YIELD (bu/ac)

ID	Pedigree	Havre	Sidney	Moccasin	Huntley	Conrad	Bozeman	Mean	BYX	RSQ
MT900132	MT4126/Moravian III	100.0	49.1	83.5	54.5	83.2	118.2	81.4	0.93	0.97
MT900145	MT81161/Fleet	102.4	46.5	94.6	62.8	91.3	130.8	88.1	1.05	0.97
MT900176	Steptoe/Robust	106.4	54.1	108.8	56.8	88.5	133.9	91.4	1.10	0.96
MT910024	Bowman/MT 81143	97.2	50.4	75.7	45.6	83.9	136.2	81.5	1.17	0.96
MT910032	Bowman/MT 81619	96.0	66.2	93.5	61.1	96.5	117.9	88.5	0.75	0.97
MT910033	Bowman/MT 81619	110.7	48.2	89.3	50.4	89.1	117.5	84.2	1.01	0.92
MT910046	Bowman/MT 83592	82.2	44.7	84.4	46.1	81.6	144.6	80.6	1.27	0.95
MT910150	MT 81143/MT 83444	95.8	52.2	82.1	61.3	89.1	129.8	85.1	0.97	0.97
MT910160	MT 81619/Bowman	108.8	58.4	90.1	53.1	83.3	124.3	86.3	0.97	0.95
MT910170	MT 83424/MT138575	99.2	55.9	88.1	54.5	87.6	120.8	84.3	0.91	0.99
MT910173	MT 83424/MT81616	101.6	62.0	93.2	53.3	92.8	124.7	87.9	0.93	0.98
MT910176	MT 83491/Bowman	91.4	49.9	85.4	55.8	81.1	127.3	81.8	0.99	0.99
MT910183	MT138575/Lewis	89.6	55.1	81.1	54.1	78.0	133.3	81.9	1.01	0.95
MT910187	MT140523/Menuet	102.5	49.6	80.0	53.6	87.8	123.6	82.9	1.00	0.96
MT910189	ND 7293/MT 81616	92.7	52.9	90.8	57.8	88.2	143.9	87.7	1.15	0.97
MTSU 247	Shonkin	78.9	51.0	76.5	48.2	74.5	72.3	66.9	0.39	0.64
ND 9866	Stark	97.3	51.6	88.7	52.6	82.2	150.5	87.2	1.28	0.97
NS:78054	Baronesse	115.1	75.5	110.9	68.7	102.4	146.9	103.2	1.02	0.99
PI483127	Russell	88.5	40.9	87.8	46.7	79.8	130.4	79.0	1.16	0.99
PI483237	Bowman	93.3	47.6	90.8	55.3	84.0	126.7	83.0	1.02	0.99
PI491534	Gallatin	94.4	43.7	81.8	56.6	93.1	121.0	81.8	0.98	0.95
SK 76333	Harrington	91.0	60.8	90.7	57.5	94.8	128.7	87.3	0.92	0.97
WPB92 1	Medallion	108.2	53.8	113.8	57.6	105.2	110.0	91.4	0.86	0.74
*****	SITE MEAN *****	97.3	54.2	91.2	55.6	88.3	128.5	85.9	1.00	1.00
C.V.	C.V. (S/mean)* 100	9.0	11.1	5.5	5.7	5.8	7.5	0.0	0.00	0.00
LSD(.05)		15.1	10.3	8.7	5.6	8.8	16.4	0.0	0.00	0.00

\* Poor germination and stands except at Havre and Bozeman.

Table 2. 1993 SPRING BARLEY DRYLAND INTRASTATE STATEWIDE SUMMARY

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ID	Pedigree	Yield bu/ac	Test wt lb/bu	Plump %	Heading Date	Plantht inches
12140523	MT140523 HR 12	84.4	49.8	87.0	176.8	31.8
20140523	MT140523 HR20	85.2	49.4	85.8	177.4	32.3
21140523	MT140523 HR21	88.3	49.9	88.0	177.4	32.5
2B885133	BA 2B88-5133	79.2	49.7	93.4	175.6	32.6
2B885648	BA 2B88-5648	90.7	50.3	88.8	178.3	35.7
863829H7	Princesse/Regatta	91.6	47.0	71.3	184.3	24.7
BA 1202	BA 1202	86.0	48.4	89.4	179.0	32.1
BA 1215	2B82-8529(BA 8529)	92.4	50.3	88.0	178.4	31.4
BA 1614	BA 1614	86.2	47.3	87.3	176.3	34.1
BZ489-29	WPB BZ 489-29	50.3	41.6	57.1	180.9	20.5
CI 15229	Steptoe	97.9	44.0	85.1	173.4	31.8
CI 15514	Hector	82.3	49.6	83.8	177.7	35.0
CI 15856	Lewis	90.0	50.6	89.2	177.1	34.3
H1281161	MT 81161-HR12	84.9	49.1	88.6	176.5	32.7
H1381161	MT 81161-HR13	86.3	49.0	90.6	175.9	31.4
H1851195	MT41918/TR450	90.5	49.1	89.3	176.7	34.4
H2860224	Lewis/Apex	87.7	50.5	92.1	177.6	32.7
H3851032	Harrington/Clark	83.4	48.9	90.8	179.6	32.8
H3860224	Lewis/Apex	93.2	50.3	88.1	178.3	32.9
H5860219	Lewis/Apex	87.3	50.3	88.6	178.6	31.9
H5860224	Lewis/Apex	86.5	50.3	91.1	178.1	32.6
H5870120	Lindy/Martin	94.1	43.6	83.0	172.7	31.8
H6851032	Harrington/Clark	83.7	50.0	84.2	178.5	33.2
H6860756	Gallatin/Bellona	89.6	51.2	91.2	178.2	32.8
H881161	MT 81161 -HR8	84.2	48.3	88.3	176.1	31.6
MT 81161	Lewis//Kgs/Smt	83.1	49.6	87.6	177.2	33.0
MT 83435	Clark/TR450	87.5	48.4	86.7	176.6	33.0
MT140523	Hector/Klages	89.5	49.8	89.5	178.0	33.3
MT851032	Harrington/Clark	82.6	49.7	85.7	178.8	32.4
MT851195	MT41918/TR450	86.8	49.3	85.8	177.1	33.1
MT860756	Gallatin/Bellona	88.8	50.5	90.6	177.7	32.9
MT861596	Lewis/MT 41549	86.8	50.6	83.7	176.9	33.5
MT886610	MT 81143/Lewis	88.1	50.0	86.5	176.8	33.2
MT889106	Apex/Lewis	76.9	50.1	91.9	172.4	32.4
MT890008	Fleet/Bowman	97.8	47.7	88.4	180.9	31.0
MT890018	Gallatin/Apex	86.4	51.1	89.3	178.2	30.1
MT890070	MT47219/Bowman	86.5	50.0	91.9	173.4	32.7
MT890128	Steptoe/Robust	92.3	45.1	82.7	173.7	30.7
MT900002	Bowman/Apex	82.7	50.3	90.2	176.8	31.2
MT900071	Hector/Bowman	88.1	50.7	88.7	176.7	34.4
MT900111	Menuet/Bowman	81.2	49.9	93.5	174.7	33.3

ID	Pedigree	Yield bu/ac	Test wt lb/bu	Plump %	Heading Date	Plant Ht inches
MT900132	MT4126/Moravian III	81.4	50.4	91.7	176.9	31.8
MT900145	MT81161/Fleet	88.1	50.2	89.1	177.8	33.1
MT900176	Steptoe/Robust	91.4	44.9	91.4	175.3	30.9
MT910024	Bowman/MT 81143	81.5	49.4	93.2	176.8	32.9
MT910032	Bowman/MT 81619	88.5	49.8	86.2	176.0	30.3
MT910033	Bowman/MT 81619	84.2	50.1	91.7	174.2	31.9
MT910046	Bowman/MT 83592	80.6	49.7	92.8	171.9	33.5
MT910150	MT 81143/MT 83444	85.1	50.4	90.2	176.8	32.5
MT910160	MT 81619/Bowman	86.3	50.7	93.7	178.8	34.0
MT910170	MT 83424/MT138575	84.3	47.9	80.5	178.7	29.7
MT910173	MT 83424/MT81616	87.9	48.6	87.0	179.6	33.4
MT910176	MT 83491/Bowman	81.8	50.3	92.0	177.3	32.8
MT910183	MT138575/Lewis	81.9	49.0	86.1	175.8	33.0
MT910187	MT140523/Menuet	82.9	49.7	89.7	176.5	31.6
MT910189	ND 7293/MT 81616	87.7	49.5	92.5	174.4	31.1
MTSU 247	Shonkin	66.9	53.8	49.9	179.8	35.1
ND 9866	Stark	87.2	50.5	92.8	174.0	34.7
NS 78054	Baronesse	103.2	50.0	90.4	178.5	29.9
PI483127	Russell	79.0	45.8	78.5	173.7	32.5
PI483237	Bowman	83.0	49.5	89.6	173.9	33.5
PI491534	Gallatin	81.8	50.1	88.5	176.9	32.2
SK 76333	Harrington	87.3	49.1	90.0	178.8	32.7
WPB92 1	Medallion	91.4	46.4	66.3	180.7	28.1
.....	SITE MEAN .....	85.9	49.2	87.1	177.0	32.3

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 Table 3. 1993 SPRING BARLEY IRRIGATED INTRASTATE STATEWIDE SUMMARY  
 YIELD (bu/ac)

ID	Pedigree	Bozeman	Sidney	Kalispell	Huntley	Conrad	Mean	BYX	RSQ
12140523	MT140523 HR 12	118.2	86.1	136.7	90.0	74.5	101.1	1.10	0.89
20140523	MT140523 HR20	116.0	94.6	151.3	100.3	82.2	108.9	1.02	0.71
21140523	MT140523 HR21	144.2	84.7	131.4	95.0	79.2	106.9	1.32	0.99
2B885133	BA 2B88-5133	140.0	94.5	135.2	87.5	78.1	107.1	1.28	0.98
863829H7	Princesse/Regatta	126.3	98.1	118.3	109.3	96.3	109.7	0.55	0.88
BA 1202	BA 1202	128.1	86.1	129.9	87.6	90.2	104.3	1.00	0.95
BA 1215	2B82-8529(BA	130.8	102.5	128.1	104.4	92.6	111.7	0.76	0.98
BU585-82	WPB BU 585-82	150.5	107.5	133.8	118.2	92.0	120.4	0.97	0.88
BZ489-29 *	WPB BZ 489-29	119.8	55.8	78.3	69.3	--	64.4	1.63	0.67
BZ588335	WPB BZ 588-335	146.2	117.2	110.5	125.6	87.8	117.5	0.57	0.34
C14	Coors C14	151.8	100.5	119.4	86.6	79.7	107.6	1.21	0.84
C16	Coors C16	132.5	98.5	140.4	100.3	78.4	110.0	1.13	0.93
C93 1	Galena	134.0	90.2	104.2	95.4	98.4	104.4	0.62	0.62
C93 2	IdaGold	125.5	105.9	106.2	92.9	84.0	102.9	0.58	0.65
CI 15229	Steptoe	167.4	90.3	159.0	115.2	89.3	124.3	1.66	0.96
CI 15478	Klages	111.7	67.1	137.8	85.0	81.7	96.6	1.13	0.78
CI 15514	Hector	90.6	59.9	105.9	64.5	79.1	80.0	0.70	0.66
CI 15856	Lewis	133.6	86.3	132.6	88.8	88.6	106.0	1.11	0.97
DA587170	WPB DA 587-170	136.7	104.9	144.9	100.8	100.5	117.6	0.95	0.94
H1281161	MT 81161-HR12	137.3	75.0	111.1	90.8	92.3	101.3	0.96	0.78
H1381161	MT 81161-HR13	127.3	93.9	110.1	77.6	83.4	98.5	0.84	0.83
H1851195	MT41918/TR450	127.8	85.4	131.6	80.1	93.0	103.6	1.04	0.88
H2860224	Lewis/Apex	127.3	103.7	127.9	92.9	94.6	109.3	0.75	0.92
H3851032	Harrington/Clark	109.9	80.1	117.5	96.7	80.1	96.8	0.72	0.86
H3860224	Lewis/Apex	142.2	97.2	131.4	95.1	93.3	111.8	1.04	0.97
H5851161	MT41918/MT412	109.1	80.4	132.4	86.8	92.0	100.1	0.81	0.72
H5860219	Lewis/Apex	136.8	96.6	138.9	99.8	103.2	115.1	0.93	0.94
H5870120	Lindy/Martin	166.4	98.3	143.5	100.8	79.5	117.7	1.60	0.96
H6851032	Harrington/Clark	102.0	77.4	115.5	90.2	87.2	94.5	0.58	0.75
H6860756	Gallatin/Bellona	135.4	83.0	135.2	100.4	91.6	109.1	1.09	0.94
H881161	MT 81161 -HR8	132.8	74.6	113.8	68.5	87.1	95.4	1.13	0.83
MN 52	Excel	133.2	115.4	151.1	113.1	91.4	120.8	0.91	0.79
MT 81161	Lewis//Kgs/Smt	125.0	86.2	119.1	96.0	79.8	101.2	0.90	0.97
MT 83435	Clark/TR450	132.6	88.2	122.2	82.0	81.0	101.2	1.09	0.97
MT140523	Hector/Klages	118.1	89.2	133.2	81.1	83.5	101.0	1.00	0.88
MT851032	Harrington/Clark	108.0	74.0	123.4	90.2	80.6	95.2	0.84	0.83
MT851195	MT41918/TR450	133.1	85.6	134.4	83.3	94.0	106.1	1.11	0.91
MT860756	Gallatin/Bellona	133.4	87.5	121.1	94.5	95.7	106.4	0.86	0.92
MT861596	Lewis/MT 41549	115.8	88.8	126.4	81.8	85.9	99.7	0.86	0.89
MT886610	MT 81143/Lewis	135.9	95.4	127.5	93.9	84.0	107.4	1.03	0.98
MT889106	Apex/Lewis	137.9	79.7	120.0	101.5	69.1	101.7	1.21	0.88

Table 3 cont. 1993 SPRING BARLEY IRRIGATED INTRASTATE STATEWIDE SUMMARY  
YIELD (bu/ac)

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ID	Pedigree	Bozeman	Sidney	KalisPELL	Huntley	Conrad	Mean	BYX	RSQ
MT890008	Fleet/Bowman	126.1	89.8	132.9	88.7	98.0	107.1	0.89	0.87
MT890018	Gallatin/Apex	145.0	94.1	100.9	88.6	82.5	102.2	0.91	0.65
MT890070	MT47219/Bow	141.8	85.0	131.7	87.8	83.5	106.0	1.29	0.99
MT890128	Steptoe/Robust	162.4	96.8	141.7	116.4	80.2	119.5	1.44	0.91
MT900071	Hector/Bowman	129.8	90.9	134.4	86.9	81.6	104.7	1.14	0.98
MT900111	Menuet/Bowma	137.5	104.9	128.3	107.6	72.6	110.2	1.03	0.81
MT900176	Steptoe/Robust	158.5	102.9	144.1	110.0	86.8	120.5	1.33	0.96
MT910024	Bowman/MT811	133.8	78.6	135.7	91.1	87.6	105.4	1.21	0.95
MT910032	Bowman/MT	126.3	92.8	127.2	94.0	87.3	105.5	0.89	1.00
MT910046	Bowman/MT	134.9	81.3	134.6	85.2	72.1	101.6	1.39	0.99
MT910150	MT 81143/MT	136.3	95.2	119.1	100.8	79.8	106.2	0.95	0.90
MT910160	MT 81619/Bow	119.9	97.2	137.6	88.1	85.8	105.8	0.94	0.85
MT910167	MT 83424/FI	130.1	100.2	119.7	84.5	91.3	105.1	0.81	0.86
MT910170	MT 83424/MT135	110.3	73.1	124.5	79.9	84.4	94.4	0.92	0.84
MT910173	MT 83424/MT8	124.1	84.6	114.5	100.1	95.9	103.8	0.65	0.84
MT910176	MT 83491/Bow	138.0	93.2	127.7	90.0	86.0	107.0	1.08	0.98
MT910187	MT140523/Men	119.2	99.1	128.5	87.6	90.4	105.0	0.77	0.87
ND 9866	Stark	155.4	98.9	137.9	71.9	86.1	110.0	1.50	0.87
NS 78054	Baronesse	133.2	107.7	141.5	122.9	104.4	121.9	0.66	0.83
PI483127	Russell	125.4	93.7	117.0	96.9	62.6	99.1	1.00	0.81
PI491534	Gallatin	138.9	78.6	111.4	87.6	91.5	101.6	0.98	0.80
SITMEAN		131.2	90.5	127.3	93.5	85.0	105.5	1.00	1.00
SK 76333	Harrington	103.7	88.3	119.2	88.8	79.0	95.8	0.65	0.82
WPB92 1	Medallion	137.5	100.0	148.1	112.3	98.4	119.2	0.98	0.92
*****	SITE MEAN	131.2	90.5	127.3	93.5	85.0	105.5	1.00	1.00
C.V.	(s/mean)*100	10.8	9.5	7.0	10.1	9.2	0.0	0.00	0.00
LSD(.05)		23.2	14.2	15.4	15.5	13.5	0.0	0.00	0.00

\* Poor germination and stands at all locations except Bozeman.

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Table 4. 1993 SPRING BARLEY IRRIGATED INTRASTATE STATEWIDE SUMMARY

ID	Pedigree	Yield bu/ac	Test wt lb/bu	Plump %	Heading Date	Plant Ht Inches	Lodging Index
12140523	MT140523 HR 12	101.1	49.0	76.8	178.7	35.9	47.1
20140523	MT140523 HR20	108.9	49.4	79.9	179.6	36.2	52.6
21140523	MT140523 HR21	106.9	49.0	83.2	179.7	36.3	56.9
2B885133	BA 2B88-5133	107.1	50.2	93.2	177.8	36.2	24.9
863829H7	Princesse/Regatta	109.7	45.7	61.4	186.4	27.0	1.8
BA 1202	BA 1202	104.3	48.3	84.1	181.5	36.7	45.8
BA 1215	2B82-8529(BA 8529)	111.7	50.7	88.5	180.6	37.4	23.8
BU585-82	WPB BU 585-82	120.4	46.1	85.8	182.0	27.5	0.4
BZ489-29	WPB BZ 489-29	64.4	50.0	54.1	146.6	22.0	3.5
BZ588335	WPB BZ 588-335	117.5	44.9	81.3	181.7	24.3	0.1
C14	Coors C14	107.6	50.3	80.3	176.3	31.3	14.7
C16	Coors C16	110.0	50.0	87.3	181.1	36.4	14.9
C93 1	Galena	104.4	47.6	74.4	185.7	33.5	15.9
C93 2	IdaGold	102.9	46.9	63.1	185.7	30.1	19.9
CI 15229	Steptoe	124.3	44.3	84.3	174.7	35.0	29.8
CI 15478	Klages	96.6	47.6	72.7	183.4	39.3	44.8
CI 15514	Hector	80.0	48.3	73.3	180.2	38.5	74.0
CI 15856	Lewis	106.0	50.8	86.8	179.0	37.8	35.5
DA587170	WPB DA 587-170	117.6	45.2	82.1	183.9	27.8	0.8
H1281161	MT 81161-HR12	101.3	49.0	87.5	177.7	36.0	46.5
H1381161	MT 81161-HR13	98.5	48.4	84.4	177.9	35.5	45.9
H1851195	MT41918/TR450	103.6	49.2	88.6	177.9	38.8	42.7
H2860224	Lewis/Apex	109.3	50.0	89.2	180.2	37.4	35.5
H3851032	Harrington/Clark	96.8	48.8	82.6	181.6	37.9	57.9
H3860224	Lewis/Apex	111.8	50.2	88.6	180.7	35.8	9.5
H5851161	MT 41918/MT 41279	100.1	49.5	81.1	180.4	36.3	48.5
H5860219	Lewis/Apex	115.1	50.7	88.8	180.5	36.5	25.8
H5870120	Lindy/Martin	117.7	44.8	84.1	174.1	34.3	35.9
H6851032	Harrington/Clark	94.5	48.6	77.9	180.8	38.6	73.8
H6860756	Gallatin/Bellona	109.1	51.3	88.7	179.9	36.3	29.0
H881161	MT 81161 -HR8	95.4	46.7	81.5	177.9	34.7	50.2
MN 52	Excel	120.8	47.4	78.9	178.3	38.5	22.8
MT 81161	Lewis//Kgs/Smt	101.2	49.6	84.0	179.7	36.0	52.9
MT 83435	Clark/TR450	101.2	48.5	86.9	177.7	37.1	57.5
MT140523	Hector/Klages	101.0	49.8	87.8	179.3	37.5	38.8
MT851032	Harrington/Clark	95.2	49.0	81.9	181.4	36.1	61.8
MT851195	MT41918/TR450	106.1	49.5	86.9	178.6	36.8	34.3
MT860756	Gallatin/Bellona	106.4	51.0	89.2	179.1	35.8	17.4
MT861596	Lewis/MT 41549	99.7	51.0	82.0	179.7	37.4	34.5
MT886610	MT 81143/Lewis	107.4	49.0	83.4	179.7	37.7	31.2
MT889106	Apex/Lewis	101.7	50.4	90.7	174.7	37.5	38.0

ID	Pedigree	Yield bu/ac	Test wt lb/bu	Plump %	Heading Date	Plant Ht inches	Lodging Index
MT890008	Fleet/Bowman	107.1	46.8	76.1	183.6	35.2	31.5
MT890018	Gallatin/Apex	102.2	51.1	88.7	179.8	33.3	33.7
MT890070	MT47219/Bowman	106.0	50.3	90.4	175.4	36.7	29.7
MT890128	Steptoe/Robust	119.5	45.1	79.4	176.0	33.5	41.5
MT900071	Hector/Bowman	104.7	50.3	88.2	179.5	40.5	29.4
MT900111	Menuet/Bowman	110.2	49.9	95.0	176.4	35.3	17.6
MT900176	Steptoe/Robust	120.5	44.4	88.6	176.3	36.3	29.1
MT910024	Bowman/MT 81143	105.4	49.9	93.9	178.4	37.4	39.1
MT910032	Bowman/MT 81619	105.5	49.9	82.3	177.8	33.3	40.0
MT910046	Bowman/MT 83592	101.6	49.9	90.6	173.9	35.6	32.2
MT910150	MT 81143/MT 83444	106.2	51.1	90.4	178.2	35.7	27.7
MT910160	MT 81619/Bowman	105.8	50.6	90.6	180.7	37.2	29.9
MT910167	MT 83424/Fleet	105.1	50.0	58.7	182.2	31.4	19.3
MT910170	MT 83424/MT138575	94.4	47.3	75.8	179.8	34.6	70.0
MT910173	MT 83424/MT81616	103.8	48.1	79.3	181.6	38.2	51.5
MT910176	MT 83491/Bowman	107.0	50.2	88.6	179.3	36.6	31.0
MT910187	MT140523/Menuet	105.0	50.2	86.2	178.3	35.3	34.3
ND 9866	Stark	110.0	50.8	92.2	176.7	38.3	27.4
NS 78054	Baronesse	121.9	50.4	89.8	180.4	34.5	20.9
PI483127	Russell	99.1	45.4	77.4	175.0	35.7	5.8
PI491534	Gallatin	101.6	50.0	83.1	179.5	37.4	23.7
SITEMEAN		105.5	48.6	82.5			
SK 76333	Harrington	95.8	48.2	80.8	181.4	37.4	51.3
WPB92-1	Medallion	119.2	45.6	62.9	182.6	31.8	7.1
*****	SITE MEAN *****	105.5	48.8	82.9	179.6	35.4	36.6