

PROJECT TITLE:

Statewide Barley Variety Performance

YEAR:

1990

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, coordinator
Conrad - Greg Kushnak
Havre - Gregg Carlson
Huntley - Gil Stallknecht
Kalispell - Vern Stewart
Moccasin - Grant Jackson
Sidney - Joyce Eckhoff

RESULTS:

The statewide (Intrastate) Barley Variety Nursery was grown at the 7 locations listed above. Some locations had both irrigated and dryland nurseries.

Yield and other agronomic data are summarized in Table 1 for dryland and Table 2 for irrigated. When averaged over all locations, the top yielders on dryland were Steptoe, Lewis, ND 9866, Baronesse, Bowman, Russell, Hector, and Gallatin. The lowest yielders included Morex, Robust, Klages, Harrington, and the waxy hullless Shonkin. The top yielders on irrigated included Baronesse, Steptoe, Princesse, Steffi, Gallatin, Lewis, Harrington, and several experimentals from Busch, Coors, and MSU.

Table 1. 1990 SPRING BARLEY STATEWIDE REPORT DRYLAND

Statewide Average

ID	PEDIGREE	HAVRE	SIDNEY	MOCC	HUNTLEY	CONRAD	BOZEMAN	Statewide Average				
								YIELD (bu/ac)	Yield	Test wt.	% Plump	Plant height
								AVG	AVG	AVG	AVG	AVG
AC 1798	Steffi	41.4	48.1	30.6	57.9	99.0	65.9	57.1	47.5	52.2	28.7	178.1
CI 9558	Pirolina	40.3	53.7	34.8	62.2	94.8	62.5	58.1	46.9	17.2	30.1	173.8
CI 15229	Steptoe	48.6	59.9	37.8	73.8	105.3	74.7	66.7	41.4	29.8	32.6	171.7
CI 15478	Klages	33.4	43.2	25.9	46.8	104.5	57.7	51.9	46.6	21.8	28.0	176.7
CI 15514	Hector	41.6	63.2	36.3	63.6	93.7	65.2	60.6	48.1	33.0	32.1	175.1
CI 15773	Morex	31.2	46.4	33.7	54.0	87.1	59.9	52.1	43.8	22.3	33.0	172.6
CI 15856	Lewis	47.5	58.8	35.5	76.8	100.4	69.7	64.8	48.4	31.9	30.3	175.2
CI 15857	Clark	44.8	50.1	34.3	58.9	93.9	62.2	57.4	46.6	25.8	30.3	175.4
MN 36	Robust	27.2	49.2	33.3	59.2	83.9	58.0	51.8	44.5	22.1	33.7	171.7
MT 81161	Lewis//Kgs/Smt	46.7	55.1	37.1	66.4	105.9	61.1	62.1	45.2	32.8	30.2	173.1
MT 81502	Clark/WA895375	50.2	53.0	35.7	68.3	95.8	64.8	61.3	47.6	30.4	30.2	174.7
MT 83422	Clark/TR450	45.6	51.0	36.6	69.4	101.0	63.4	61.2	46.4	24.8	30.1	175.8
MT 83435	Clark/TR450	41.8	50.1	34.8	61.4	95.0	67.2	58.4	48.4	31.2	30.3	175.6
MT 83533	Clark/Lamont	39.7	58.1	30.4	62.0	104.3	64.3	59.8	46.0	26.2	28.4	175.3
MT140523	Hector/Klages	46.6	61.6	35.3	67.3	112.3	64.7	64.6	47.6	27.6	30.0	175.3
MT850053	Clark/ND5976	43.1	48.9	32.3	59.2	95.8	63.0	57.0	46.5	28.7	31.4	175.0
MT851005	Clark/ID810264	50.1	51.4	35.4	63.0	96.1	60.0	59.3	45.0	28.0	30.4	174.7
MT851011	Clark/WA877178	46.2	49.8	35.1	58.0	100.1	65.3	59.1	46.6	32.9	29.9	176.4
MT851012	Clark/WA877178	42.6	58.6	32.7	59.8	90.2	65.4	58.2	46.5	34.4	31.2	175.4
MT851145	WA 890878/MT41238	39.2	45.1	33.0	61.8	92.4	61.0	55.4	46.4	31.3	31.9	173.7
MT851161	MT 41918/MT 41279	43.9	61.1	32.7	62.3	105.4	63.6	61.5	47.0	31.0	28.6	175.9
MT851195	MT41918/TR450	47.4	49.0	35.7	70.9	105.5	67.9	62.7	47.9	33.8	29.7	173.5
MT851224	ID810264/MT 41918	43.8	51.5	33.1	56.6	101.2	62.8	58.2	46.2	32.5	29.8	176.5
MT851425	MT 51549/Lewis	44.3	56.8	32.8	58.4	98.1	66.5	59.5	48.0	27.2	31.0	176.2
MT860219	Lewis/Apex	38.6	48.6	33.4	62.1	106.3	61.9	58.5	46.8	32.8	28.4	176.1
MT860224	Lewis/Apex	39.9	51.2	33.9	56.2	94.6	62.4	56.4	47.4	30.4	30.3	176.7
MT860326	Lewis/TR533	45.9	50.3	32.9	60.6	105.7	61.5	59.5	48.1	24.5	30.6	174.9
MT860756	Gallatin/Bellona	43.2	59.9	35.0	61.8	99.4	67.1	61.1	47.1	34.1	28.7	175.2
MT861596	Lewis/MT 41549	47.4	58.2	36.1	60.4	92.0	68.7	60.5	49.8	28.9	31.3	175.6
MT870070	Columbia/Lindy	40.1	51.6	35.1	66.6	103.3	60.7	59.6	41.7	26.5	29.8	173.5
MT870100	Hazen/Chalky Glenn	30.7	55.5	30.4	56.4	79.4	57.1	51.6	41.6	17.0	33.0	171.7
MT870105	Hazen/UT1423	33.1	52.2	33.1	57.6	86.3	60.0	53.7	43.1	22.1	32.6	173.3
MT870109	ID 76871/Gallatin	44.7	60.5	32.6	60.4	89.8	68.5	59.4	47.8	19.6	30.2	173.9
MT870120	Lindy/Martin	49.5	45.3	40.5	71.1	89.1	72.6	61.3	41.0	26.7	31.0	171.7
MT870246	Teton/Westbred 501	43.5	53.9	37.3	69.8	107.1	72.7	64.1	42.2	31.5	32.9	171.8
MT880903	BA 27937/Chalky Glenn	34.3	45.1	34.2	60.7	78.8	59.2	52.1	40.6	8.7	30.5	171.3
MT881809	Columbia/Hazen	39.1	50.0	34.2	58.2	87.6	66.1	55.9	45.2	24.6	32.0	173.4
MT882004	Columbia/Lindy	42.7	54.9	30.4	62.0	102.4	61.5	59.0	43.7	53.2	31.2	173.3
MT882208	Fleet/Lewis	43.0	54.5	31.0	60.1	103.3	65.7	59.6	48.2	25.6	27.8	176.0
MT884806	Minerva Mutant/Gallatin	44.2	54.3	34.3	62.4	99.3	67.0	60.3	47.9	35.2	30.1	175.5
MT885701	Minerva Mutant/VDH 130-7	42.5	50.9	36.1	61.2	107.2	67.7	60.9	45.4	31.3	28.8	175.6
MT885702	Minerva Mutant/VDH 130-7	41.6	50.6	32.8	45.9	87.3	58.5	52.8	43.9	26.9	28.0	176.7
MT886601	MT 81143/Lewis	47.3	56.9	34.6	61.9	92.3	58.9	58.6	46.9	22.5	29.6	174.0
MT886609	MT 81143/Lewis	43.7	54.8	31.4	58.4	96.4	61.7	57.7	47.2	30.7	29.6	175.3
MT886610	MT 81143/Lewis	46.6	49.9	35.2	59.9	105.9	64.4	60.3	47.5	33.3	30.3	174.2
MT887103	MT 81535/Lewis	46.2	52.4	33.7	66.7	97.0	61.0	59.5	46.8	26.4	28.9	173.9
MT887406	MT 81619/Chalky Glenn	37.1	46.3	30.8	62.0	79.0	57.3	52.1	46.0	31.2	31.2	172.6

(continued)

Table 1 1990 SPRING BARLEY STATEWIDE REPORT DRYLAND

ID	PEDIGREE	YIELD (bu/ac)						Yield AVG	Test WT	O.D. Plump	Plant Hgt	Head date
		HAVRE	SIDNEY	MOCCASIN	HUNTLEY	CONRAD	BOZEMAN					
MT887509	MT 81619/Lewis	47.5	54.9	36.0	55.9	96.2	62.4	58.8	45.9	17.8	29.2	175.9
MT887510	MT 81619/Lewis	45.7	53.2	34.5	69.0	93.1	65.8	60.2	48.6	27.3	31.1	174.2
MT887603	MT 81619/UT 1423	44.8	54.5	37.7	64.5	93.2	67.0	60.3	49.8	43.2	31.9	175.4
MT888010	Robust/ID 789009	34.1	54.2	34.6	67.2	97.6	56.0	57.3	45.0	26.8	33.1	172.8
MT888205	Steptoe/Chalky Glenn	38.0	50.4	31.1	56.6	80.2	59.5	52.6	40.0	19.9	30.2	171.5
MT888803	VDH 130-78/UT 1423	36.8	46.6	33.9	59.1	102.4	62.1	56.8	43.5	17.7	29.7	174.2
MT889102	Apex/Lewis	48.9	63.5	39.3	75.1	87.9	70.7	64.2	51.1	52.2	31.8	171.4
MT889106	Apex/Lewis	46.5	60.3	40.8	74.2	99.0	71.5	65.4	50.9	57.8	31.4	171.1
MTSU 247	Shonkin	30.7	43.8	26.3	45.2	77.9	55.8	46.6	49.9	6.9	29.8	177.4
ND 9866	ND7014/Bowman sib	42.8	49.6	35.4	73.4	107.1	69.7	63.0	50.1	44.0	32.5	172.5
NS 77021	Princesse	34.2	50.0	27.0	54.7	99.5	65.3	55.1	45.6	30.3	25.3	177.2
NS 78054	Baronesse	44.5	65.1	35.4	64.9	105.5	65.3	63.4	48.4	39.0	28.4	176.8
PI483127	Russell	46.2	53.0	34.7	69.5	100.1	63.0	61.1	43.8	22.2	31.5	171.2
PI483237	Bowman	43.8	55.3	36.8	72.5	96.5	67.2	62.0	49.3	44.0	31.5	172.0
PI491534	Gallatin	45.5	50.5	33.9	63.4	99.1	66.5	59.8	48.3	32.9	31.1	174.3
PI531228	Bearpaw	38.5	52.5	34.9	58.3	99.6	60.6	57.4	45.9	31.6	29.2	177.1
SK 76333	Harrington	37.7	45.7	30.7	58.2	98.2	60.8	55.2	46.7	40.2	29.1	176.2
*****	SITE MEAN *****	42.2	52.9	34.0	62.2	96.6	63.9	58.6	46.3	30.3	30.4	174.5

Table 2 1990 SPRING BARLEY STATEWIDE REPORT IRRIGATED

Statewide Average

Yield	Test	1000	Plant	Head
AVG	wt	Plum	height	date
AVG	AVG	AVG	AVG	AVG

ID	PEDIGREE	BOZEMAN	SIDNEY	KALISPELL	HUNTLEY	CONRAD	YIELD (bu/ac)				
							AVG	AVG	AVG	AVG	AVG
8202805	Coors AC82-028-05	146.2	102.3	84.0	117.8	98.6	109.8	53.9	93.7	35.6	173.8
8403007	Coors AC84-030-07	154.2	106.6	100.7	111.0	107.4	116.0	52.4	96.2	33.3	175.4
8406615	Coors AC84-066-15	157.0	112.1	92.5	121.7	103.4	117.3	52.6	90.4	30.4	176.3
8500905	Coors DH85-009-05	146.2	113.7	86.5	112.5	103.0	112.4	52.9	95.8	28.3	175.6
8503701	Coors DH85-037-01	137.0	112.9	94.1	125.5	106.5	115.2	54.0	91.4	28.8	170.8
AC 1798	Steffi	157.5	111.6	88.8	122.8	99.6	116.1	53.2	98.1	32.5	175.4
BA 1215	2B82-8529 (BA 8529)	161.3	104.5	95.6	118.5	97.7	115.5	53.2	91.7	34.1	174.7
BA 2601	M31/High Extract Comp	157.3	106.3	95.1	109.0	102.3	114.0	50.9	89.7	32.9	173.9
BA854026	2B85-4026	152.5	103.4	100.4	118.0	97.2	114.3	54.0	93.2	35.5	172.3
BA865169	2B86-5169	155.9	117.0	102.3	117.5	109.8	120.5	53.7	90.5	37.0	174.8
CI 9558	Piroline	126.4	95.6	95.2	101.5	82.8	100.3	53.3	84.7	35.5	171.8
CI 15229	Steptoe	149.1	113.4	109.1	132.9	104.5	121.8	49.2	93.0	35.5	169.0
CI 15478	Klages	144.8	94.2	93.1	117.6	105.2	111.0	52.0	86.6	33.8	174.9
CI 15514	Hector	130.4	93.6	86.5	104.8	99.0	102.9	52.6	86.5	36.3	172.8
CI 15773	Morex	130.8	85.8	82.9	94.1	87.2	96.1	50.7	92.9	41.0	169.6
CI 15856	Lewis	157.2	107.4	92.4	112.0	104.7	114.7	53.5	93.1	36.4	172.4
CI 15857	Clark	153.1	106.2	89.4	108.9	93.5	110.2	52.6	92.3	34.7	172.9
MN 36	Robust	137.3	83.0	86.8	95.5	85.8	97.7	52.5	94.1	40.2	170.6
MT 81161	Lewis//Kgs/Smt	154.3	92.6	96.4	116.3	110.5	114.0	51.9	93.2	33.7	171.6
MT 83435	Clark/TR450	155.2	98.8	94.4	111.3	109.7	113.9	52.9	94.2	35.3	172.7
MT 83533	Clark/Lamont	143.0	106.7	100.7	122.0	102.3	115.0	53.1	94.7	33.6	172.7
MT140523	Hector/Klages	148.9	104.2	97.3	119.2	105.2	115.0	51.9	90.6	34.5	172.7
MT850053	Clark/ND5976	149.0	101.3	86.8	109.9	92.8	108.0	52.7	94.0	36.5	172.6
MT851005	Clark/ID810264	117.5	85.3	90.5	114.0	101.6	101.8	51.3	90.7	35.2	172.7
MT851011	Clark/WA877178	133.9	106.7	92.3	116.6	94.1	108.7	52.3	91.5	35.2	173.4
MT851012	Clark/WA877178	136.0	93.8	93.6	113.9	103.2	108.1	51.8	89.7	35.9	172.7
MT851032	Harrington/Clark	146.4	103.4	98.6	118.6	90.3	111.5	52.7	90.2	35.0	173.8
MT851145	WA 890878/MT41238	150.4	102.9	95.5	102.7	103.9	111.1	53.5	96.5	37.0	171.9
MT851161	MT 41918/MT 41279	149.1	97.7	99.7	114.8	99.9	112.2	52.4	91.0	32.0	172.9
MT851195	MT41918/TR450	155.5	97.3	99.2	119.3	110.9	116.5	52.5	92.9	34.6	171.8
MT851224	ID810264/MT 41918	140.2	95.0	86.5	114.6	102.2	107.7	51.9	91.0	33.3	173.1
MT851425	MT 51549/Lewis	138.7	89.3	93.2	110.6	100.6	106.5	52.4	89.1	34.5	173.2
MT860219	Lewis/Apex	154.1	104.2	88.9	121.5	107.5	115.3	52.1	89.7	32.9	172.7
MT860224	Lewis/Apex	156.4	100.4	97.4	128.3	105.0	117.5	53.0	91.1	34.5	174.5
MT860326	Lewis/TR533	143.8	103.0	92.8	119.7	103.5	112.5	54.0	91.9	35.8	172.5
MT860756	Gallatin/Bellona	129.4	109.5	91.8	125.7	107.7	112.8	53.6	92.8	32.8	173.1
MT861572	Lewis/MT 41549	154.6	94.0	97.3	114.0	88.1	109.6	53.7	93.5	37.2	172.7
MT861596	Lewis/MT 41549	157.2	95.4	82.3	113.1	104.8	110.6	53.3	90.8	35.7	172.2
MT870070	Columbia/Lindy	155.3	99.6	108.0	114.3	103.9	116.2	49.0	90.3	33.8	170.5
MT870105	Hazen/UT1423	147.1	96.7	92.4	111.2	100.4	109.5	51.0	97.1	40.1	171.0
MT870109	ID 76871/Gallatin	156.3	111.8	89.2	115.0	104.7	115.4	53.7	87.7	35.7	172.1
MT870120	Lindy/Martin	158.4	118.6	107.0	123.0	97.1	120.8	49.2	94.5	35.6	169.5
MT870246	Teton/Westbred 501	143.8	110.6	115.6	127.4	104.8	120.4	49.4	94.2	36.8	170.2
MT881809	Columbia/Hazen	150.6	99.3	89.7	92.3	90.8	104.5	50.9	96.3	36.8	171.0
MT884806	Minerva Mutant/Gallatin	147.6	112.2	90.5	124.6	104.8	115.9	54.6	92.6	35.0	172.9
MT886601	MT 81143/Lewis	163.5	96.5	92.2	118.7	98.4	113.8	53.4	91.7	34.2	171.9
MT886609	MT 81143/Lewis	158.5	102.4	94.6	112.7	99.4	113.5	52.7	91.7	35.7	172.6
MT886610	MT 81143/Lewis	165.4	100.7	86.5	127.2	106.7	117.3	53.5	93.0	34.9	172.5

continued

Table 2 1990 SPRING BARLEY STATEWIDE REPORT IRRIGATED

ID	PEDIGREE	BOZEMAN	SIDNEY	KALISPELL	HUNTLEY	CONRAD	Yield	Test	%	Plant	Head
							AVG	wt.	Plump	hgt	date
		YIELD (bu/ac)					AVG	AVG	AVG	AVG	AVG
MT887103	MT 81535/Lewis	153.1	102.9	95.6	115.3	92.0	111.8	52.4	95.2	31.3	172.0
MT887406	MT 81619/Chalky Glenn	141.2	84.5	73.2	92.0	92.8	96.8	51.0	80.5	37.1	170.4
MT887509	MT 81619/Lewis	138.4	101.9	96.9	114.3	95.6	109.4	52.5	85.0	33.8	172.3
MT887510	MT 81619/Lewis	159.0	95.0	83.6	106.1	97.1	108.2	52.7	89.0	35.2	172.1
MT888010	Robust/ID 789009	149.7	93.4	97.7	102.6	93.3	107.3	51.8	93.4	38.9	171.1
MT888205	Steptoe/Chalky Glenn	156.8	124.2	93.2	123.2	100.5	119.6	48.6	88.2	37.1	168.9
MT889102	Apex/Lewis	148.6	103.7	87.0	93.0	97.2	105.9	53.0	96.1	34.2	168.8
MT889106	Apex/Lewis	154.8	102.2	87.7	103.4	96.3	108.9	53.2	95.3	34.5	169.6
MTSU 247	Shonkin	105.1	69.5	77.9	97.8	80.8	86.2	55.3	42.5	34.8	175.0
ND 9866	ND7014/Bowman sib	154.8	104.8	93.4	110.8	106.1	114.0	54.1	95.8	35.2	170.8
NS 77021	Princesse	157.3	112.8	100.4	118.6	108.3	119.5	50.6	92.2	28.7	175.8
NS 78054	Baronesse	167.5	117.3	104.2	128.6	118.7	127.3	53.2	93.7	32.7	174.5
PI483127	Russell	144.0	107.1	93.2	113.7	102.2	112.0	51.0	93.2	36.1	169.1
PI491534	Gallatin	149.8	104.4	90.1	116.9	116.7	115.6	54.0	90.5	34.9	172.2
PI531228	Bearpaw	148.8	104.8	85.9	117.0	111.1	113.5	51.5	91.2	33.9	174.7
SK 76333	Harrington	155.6	102.0	98.6	124.5	92.6	114.7	51.7	88.8	33.9	174.6
*****	SITE MEAN *****	148.4	102.0	93.4	114.2	100.7	111.8	52.4	91.1	34.8	172.5