

PROJECT TITLE: Intrastate and Early Yield Barley Variety Performance Trials

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OBJECTIVES: To evaluate agronomic performance of new experimental lines and existing barley varieties in Central Montana.

RESULTS:

Intrastate Trial – Yields ranged from 48.2 to 82.3 bu/a with the average yield equal to 69.8 bu/a (Table 44). Baronesse has a long-term yield average of 71.6 bu/a, Xena has a long-term average of 75.2 bu/a, and Valier has a long-term average of 73.2 bu/a (Table 45). Test weights were below average at 47.4 lbs/bu. Grain protein averaged 16.9 percent with Lewis having the highest protein at 20 percent. Percentage of plump kernels was low ranging from 3.5 to 62.9 percent and the average was 28.8 percent. Long-term averages for test weight, plant height, percentage of plump kernels, and grain protein are presented in Tables 46-49.

Early Yield Trial – Grain yields ranged from 47.6 to 79.8 bu/a with the average yield being 68.5 bu/a (Table 50). Test weights averaged 50.5 lbs/bu. The percentage of plump kernels averaged 42.9 percent with a low of 2 percent and a high of 89 percent. Grain protein ranged from 13.5 percent to 18.9 percent with the average protein equal to 16.8 percent.

SUMMARY:

Blowing sand cut leaves off of the emerging barley seedlings but May and June precipitation promoted vigorous growth. Good grain yields and high grain proteins were obtained but test weights and percentage of plump kernels were low.

FUTURE PLANS:

The Intrastate Trial and Early Yield Trial will continue to be evaluated at the Central Agricultural Research Center.

Table 44. 2001 Intrastate Spring Barley Trial
Exp. 2107 Central Agricultural Research Center, Moccasin, MT

ID	Pedigree	Heading	Plant	Lodging	Lodging	Grain	Test	----- Sieve Size -----		Grain
		Date*	Height	Prevalence**	Severity***			Yield	Weight	
		day	inches	%	degree	bu/a	lbs/bu	%	%	%
BZ594-20	WPB BZ594-20	188	28.4	3	9	82.3	50.0	43.7	20.6	14.5
BZ596117	WPB BZ596-117	191	30.0	10	54	81.5	49.5	40.2	19.2	16.2
MT970229	MT890021/Stark	188	31.4	0	0	81.2	50.2	53.6	15.2	14.6
MT981177	MT910033/Targhee	188	29.7	1	0	80.9	49.0	33.7	32.7	16.1
MT981238	ND112311/Lewis	186	32.1	0	4	78.3	52.2	59.0	13.6	15.5
MT981091	MT851195/MT14052	188	29.2	0	5	77.7	49.5	30.7	38.9	15.3
MT950186	MT860756/MT83533	186	30.7	20	49	77.4	50.9	34.8	21.9	17.0
MT960226	Stark/Baronesse	188	30.4	26	46	77.0	47.1	26.1	34.0	16.5
MT990244	MT890018/Stark	185	28.7	1	6	75.8	50.1	25.4	29.9	17.7
BZ594-19	WPB Xena	188	30.4	25	39	75.7	48.2	34.5	26.4	15.4
MT981212	MT910150/Stark	186	30.2	2	5	75.5	49.0	27.9	28.4	16.8
CDCBOLD	CDC Bold	188	29.8	0	0	75.1	48.1	22.8	40.8	15.0
MT970026	Baronesse/MT8607	189	30.8	4	30	74.6	49.4	33.2	25.9	15.4
TR128	Stratus	190	23.5	0	0	73.9	44.3	12.2	50.2	16.5
MT960228	Stark/Baronesse	188	29.8	0	0	73.4	47.2	17.5	42.3	15.7
ND 9866	Stark	187	32.2	1	0	73.3	50.4	39.3	26.8	15.6
N96/1116	Justina NORD 96/	190	27.5	36	39	72.8	46.4	35.9	26.4	15.9
MT960100	Manley/Baronesse	190	26.5	0	0	72.8	47.5	10.9	51.2	17.3
MT981030	Baronesse/MT9101	190	30.2	4	31	72.4	47.4	17.4	42.9	16.4
MT981210	MT910150/Stark	188	28.7	2	0	72.3	48.6	39.0	23.8	17.0
MT990176	Apex/MT890070	189	32.6	48	58	72.3	47.6	22.8	37.8	17.9
NORD1958	NORD 1958	189	26.1	64	23	72.0	47.6	40.9	25.1	16.4
MT990249	MT890018/Stark	185	29.5	15	17	71.8	50.9	31.8	24.4	17.4
PI568246	Baronesse	188	29.1	0	7	71.7	45.9	20.5	42.3	15.3
MTLB 6	Lewis/Baronesse	188	30.3	6	5	71.7	48.5	28.6	32.1	17.8
MT990156	Apex/MT890070	188	30.2	29	57	71.6	47.8	62.9	13.9	16.2
MT981004	Baronesse/H28602	188	29.8	3	7	71.5	46.4	17.5	34.7	16.9

(Continued)

Table 44. 2001 Intrastate Spring Barley Trial
Exp. 2107 (continued)

ID	Pedigree	Heading	Plant	Lodging	Lodging	Grain	Test	----- Sieve Size -----		Grain
		Date*	Height	Prevalence**	Severity***	Yield	Weight	Plump	Thin	Protein
		day	inches	%	degree	bu/a	lbs/bu	%	%	%
PI491534	Gallatin	186	30.3	6	5	71.1	48.4	15.5	49.3	18.6
MT981006	Baronesse/H28602	188	30.9	5	21	70.4	45.3	14.2	41.4	19.7
MT990132	Apex/H6860756	186	31.4	10	29	70.4	48.5	48.8	20.2	14.3
MT970110	Klages/Baronesse	189	30.0	2	1	70.3	48.6	29.6	35.8	16.3
ND13299	Conlon	186	28.0	25	33	70.1	45.2	13.7	49.3	17.1
MT970148	MT861596/ND 1112	188	28.7	0	3	70.0	44.5	24.3	36.7	16.3
MT970116	Klages/Baronesse	187	32.4	4	12	69.9	49.1	29.7	30.4	17.3
MT981042	H5860219/Barones	190	29.4	6	0	69.8	45.9	12.3	60.4	17.4
PI610264	Valier	189	29.4	9	34	69.7	48.8	17.7	40.1	17.1
MT990172	Apex/MT890070	189	29.3	5	32	69.6	48.2	57.0	17.7	16.5
MT960222	Stark/Baronesse	188	31.7	27	30	69.1	46.9	20.9	42.3	15.9
MTLB 5	Lewis/Baronesse	187	28.6	6	52	69.1	47.9	20.9	44.2	17.9
CDCNiska	CDC Niska	188	29.0	6	37	68.6	46.0	16.2	45.4	18.3
MT990147	Apex/H6860756	188	28.2	1	5	68.3	49.4	61.8	13.2	15.5
MT981039	H5860219/Barones	188	28.2	72	53	68.2	45.9	30.1	37.1	18.3
MT960099	Manley/Baronesse	189	26.6	7	32	67.8	45.2	5.0	76.6	17.4
MT910189	ND 7293/Bearpaw	186	28.9	0	6	67.4	47.0	21.1	43.0	17.9
MT981009	Baronesse/MT8603	188	30.3	28	23	67.2	46.0	14.4	53.0	17.0
MT970155	MT886610/MT14052	191	30.7	9	23	67.0	46.1	22.3	37.9	16.6
MT990106	Apex/H1851195	188	28.2	2	12	66.8	45.4	31.6	32.1	18.2
MT990174	Apex/MT890070	185	30.2	7	29	66.8	47.3	47.6	17.7	15.4
MT990023	Alexis/H1851195	188	33.5	9	43	66.6	48.6	43.9	27.0	18.3
H3860224	Lewis/Apex	190	29.7	3	35	66.4	48.0	41.0	27.6	16.3
MT990118	Apex/H1851195	188	29.6	0	3	66.0	46.2	28.3	26.3	18.1
MT960101	Manley/Baronesse	190	27.5	3	24	66.0	46.5	15.6	57.6	16.5
S3482	Calgary	188	27.1	0	0	65.3	45.4	33.4	30.7	17.3
B2L20-36	BCL20/MOREX BC2F	185	32.3	53	62	64.6	46.3	11.4	48.7	15.9

(Continued)

Table 44. 2001 Intrastate Spring Barley Trial
Exp. 2107 (continued)

ID	Pedigree	Heading	Plant	Lodging	Lodging	Grain	Test	----- Sieve Size -----		Grain
		Date*	Height	Prevalence**	Severity***	Yield	Weight	Plump	Thin	Protein

		day	inches	%	degree	bu/a	lbs/bu	%	%	%
MT990133	Apex/H6860756	187	32.0	6	27	64.4	49.9	45.7	18.1	16.4
CI 15856	Lewis	188	30.5	3	22	63.7	48.7	11.9	53.9	20.0
MT990144	Apex/H6860756	187	29.6	4	4	63.5	48.2	44.3	20.7	15.8
SK 76333	Harrington	188	30.4	14	27	62.8	44.8	25.8	41.3	17.8
PI605472	Garnett	188	29.1	7	33	61.8	46.0	45.0	23.2	18.7
MT990041	Alexis/Harrington	188	30.3	9	13	60.8	45.9	32.1	33.2	19.8
2B914947	Merit	188	29.9	0	0	60.3	44.0	15.0	52.5	17.5
MT990074	Alexis/MT861596	186	32.6	33	25	59.7	49.1	22.2	38.4	17.5
CI 15773	Morex	185	34.4	98	62	53.0	42.3	3.5	78.9	18.3
6B932978	Legacy	186	30.8	93	62	48.2	41.2	5.2	78.6	18.3
Average		188	29.8	13.6	21.6	69.8	47.4	28.8	36.0	16.9
CV (s/mean)*100			4.2	88.3	72.9	7.6	2.8	40.7	32.8	
LSD (0.05)			2.2	20.1	26.8	9.0	2.2	19.6	19.8	

* Heading date is the day from January 1, 2001

** Lodging prevalence is the percentage of plot that is lodged and ranges from 0-100

*** Lodging severity is the angle of lodging from vertical measured in degrees; 0=vertical and 90= horizontal

Seeded: 4/07/01

Fertilizer: 50 lbs of 20-20-0 placed with the seed and 67 lbs of N broadcast applied in fall of 2000 for a total N application of 77 lbs/a.

Previous Crop: Fallow

Soil Temp: 45 F

Soil Moisture: Good; soil moisture recharged after fallow

Emergence: 2 leaf on May 4, 2001

Precipitation: 7.29 inches

Harvested: August 10, 2001

Table 45. Yield summary of selected barley varieties, 1992-2001.
Exp. 2107 Central Agricultural Research Center, Moccasin, MT.

Selected Varieties	1992	1993	1994	1995	1996	1997 ^{1/}	1998	1999	2001	Average	Hector Same Yrs.
	----- bu/a -----										
Hector	75	98	48	40	43	69	76	70	-	64.9	-
Gallatin	81	81	48	50	38	67	69	73	71	64.2	64.9
Lewis	71	95	49	38	45	76	71	77	64	65.1	64.9
Harrington	74	92	49	43	33	71	70	71	63	62.9	64.9
Chinook ^{2/}	74	91	52	47	40	73	69	69	-	64.4	64.9
Stark	72	89	53	46	44	70	82	81	73	67.8	64.9
Baronesse	90	111	53	51	42	73	76	77	72	71.6	64.9
H1851195	80	90	53	55	39	78	80	78	-	69.1	64.9
H3860224		106	42	43	37	74	79	75	66	65.3	63.4
Xena						79	79	67	76	75.2	71.7
Valier						84	72	67	70	73.2	71.7
Nursery Mean	74.6	90.8	49.8	43.8	40.4	71.7	72.7	74.1	69.8		

^{1/} 1997 data is from the recrop nursery

^{2/} Data prior to 1994 is from bulk line rows; data from 1994-1995 is from a single line.

Table 46. Test weight summary of selected barley varieties, 1992-2001.
Exp. 2107 Central Agricultural Research Center, Moccasin, MT.

Selected Varieties	1992	1993	1994	1995	1996	1997 ^{1/}	1998	1999	2001	Average	Hector Same Yrs.
	----- lbs/bu -----										
Hector	52	49	51	49	45	53	49	50	-	49.8	-
Gallatin	54	50	51	51	45	54	50	51	48.4	50.5	49.8
Lewis	53	50	51	50	46	55	49	51	48.7	50.4	49.8
Harrington	52	48	49	48	46	53	43	48	44.8	48.0	49.8
Chinook ^{2/}	52	48	50	50	44	54	48	51	-	49.6	49.8
Stark	52	49	52	52	46	54	52	52	50.4	51.0	49.8
Baronesse	53	50	52	51	46	53	45	49	45.9	49.4	49.8
H1851195	52	48	50	50	44	53	48	51	-	49.5	49.8
H3860224		50	50	50	44	54	47	50	48.0	49.1	49.4
Xena						55	49	48	48.2	50.1	50.7
Valier						55	47	49	48.8	50.0	50.7
Nursery Mean	52.3	48.4	50.1	49.9	45.1	53	47.2	49.9	47.4		

^{1/} 1997 data is from the recrop nursery.

^{2/} Data prior to 1994 is from bulk line rows; data from 1994-1995 is from a single line.

Table 47. Plant height summary of selected barley varieties, 1992-2001.
Exp. 2107 Central Agricultural Research Center, Moccasin, MT.

Selected Varieties	1992	1993	1994	1995	1996	1997 ^{1/}	1998	1999	2001	Average	Hector Same Yrs.
	----- inches -----										
Hector	32	34	27	26	25	32	39	28	-	30.4	-
Gallatin	31	31	26	28	26	32	37	27	30	29.8	30.4
Lewis	30	35	27	26	26	31	38	29	31	30.3	30.4
Harrington	29	28	25	26	22	31	37	26	30	28.3	30.4
Chinook ^{2/}	28	31	27	26	23	32	41	29	-	29.6	30.4
Stark	33	34	28	28	27	32	38	30	32	31.4	30.4
Baronesse	30	31	23	24	20	27	35	25	29	27.1	30.4
H1851195	32	34	27	27	25	33	40	29	-	30.9	30.4
H3860224		32	25	25	25	29	37	28	30	28.8	30.1
Xena						31	37	27	30	31.4	33.0
Valier						31	38	28	29	31.6	33.0
Nursery Mean	28.9	31.3	25.6	25.7	23.3	30.9	36.6	27.7	29.8		

^{1/} 1997 data is from the recrop nursery.

^{2/} Data prior to 1994 is from bulk line rows; data from 1994-1995 is from a single line.

Table 48. Plump kernel summary of selected barley varieties, 1992-2001.
Exp. 2107 Central Agricultural Research Center, Moccasin, MT.

Selected Varieties	1992	1993	1994	1995	1996	1997 ^{1/}	1998	1999	2001	Average	Hector Same Yrs.
	----- % -----										
Hector	96	86	24	62	4	87	44	75	-	59.8	-
Gallatin	96	79	40	79	9	92	39	81	16	58.9	59.8
Lewis	96	88	26	72	17	91	51	84	12	59.7	59.8
Harrington	95	89	13	70	18	90	30	75	26	56.2	59.8
Chinook ^{2/}	95	84	24	60	1	90	43	77	-	59.3	59.8
Stark	98	94	47	94	12	95	89	93	39	73.5	59.8
Baronesse	98	92	31	76	12	91	33	83	21	59.6	59.8
H1851195	98		23	86	8	98	64	93	-	67.1	59.8
H3860224			47	84	7	96	50	88	41	59.0	54.6
Xena						95	62	73	35	66.1	68.7
Valier						93	32	80	18	55.7	68.7
Nursery Mean	90.7	85.5	29.3	76.9	na	91.9	45.1	80.2	28.8		

^{1/} 1997 data is from the recrop nursery.

^{2/} Data prior to 1994 is from bulk line rows; data from 1994-1995 is from a single line.

Table 49. Grain protein summary of selected barley varieties, 1992-2001.
Exp. 2107 Central Agricultural Research Center, Moccasin, MT.

Selected Varieties	1992	1993	1994	1995	1996	1997 ^{1/}	1998	1999	2001	Average	Hector Same Yrs.
	-----					%	-----				
Hector			12.4	10.1	13.7	8.4	13.3	13.1	-	11.8	-
Gallatin			11.5	9.2	14.3	8.6	12.7	12.0	18.6	12.4	11.8
Lewis			12.9	8.6	14.6	8.4	13.6	11.8	20.0	12.8	11.8
Harrington			11.4	8.6	14.4	8.2	13.5	12.7	17.8	12.4	11.8
Chinook ^{2/}			12.2	9.9	14.9	8.5	13.2	12.4	-	11.9	11.8
Stark			11.3	9.6	13.3	9.1	12.4	11.5	15.6	11.8	11.8
Baronesse			12.1	8.0	14.7	8.1	13.2	12.3	15.3	12.0	11.8
H1851195			12.9	10.0	14.8	8.8	13.2	12.6	-	12.0	11.8
H3860224			13.2	8.8	16.3	8.0	13.7	12.4	16.3	12.7	11.8
Xena						8.1	12.9	12.0	15.4	12.1	11.6
Valier						8.7	12.9	12.0	17.1	12.7	11.6
Nursery Mean			12.2	9.4	14.3	8.6	13.0	12.1	16.9		

^{1/} 1997 data is from the recrop nursery.

^{2/} Data prior to 1994 is from bulk line rows; data from 1994-1995 is from a single line.

Table 50. 2001 Early Yield Spring Barley Trial
Exp. 3107 Central Agricultural Research Center, Moccasin, MT

ID	Pedigree	Heading	Plant	Lodging	Lodging	Grain	Test	----- Sieve Size -----		Grain
		Date*	Height	Prevalence**	Severity***			Yield	Weight	
		day	inches	%	degree	bu/a	lbs/bu	%	%	%
MT000158	MT920059/Baroness	190	30.2	0	1	79.8	50.0	51.1	20.2	16.6
MT960099	Manley/Baronesse	192	27.7	0	3	79.5	49.3	23.3	38.0	16.6
MT000092	MT890008/Lewis	187	30.6	0	0	78.9	52.0	79.6	6.0	13.5
MT981060	Haybet/Baronesse	191	27.6	2	8	76.8	46.6	27.7	34.7	16.5
MTLB 05	Lewis/Baronesse L	188	29.6	3	3	75.0	50.8	40.6	22.2	16.0
MT000130	MT910189/MT890070	187	32.0	0	2	74.8	52.1	72.7	6.1	14.8
PI568246	Baronesse	188	29.8	10	9	74.7	46.6	35.2	25.1	17.1
MT000047	Chinook/MT920161	188	30.8	0	0	74.3	50.3	44.7	21.5	15.8
MT000153	MT920059/Baroness	189	29.3	0	0	74.2	51.2	37.1	22.1	15.9
MT000045	Chinook/MT920161	187	31.1	0	1	74.1	50.8	53.5	18.9	15.9
MT000089	Lewis/MT930029	187	27.6	0	0	73.7	50.7	60.8	12.4	16.7
MT000138	MT920041/H1851195	187	32.3	0	1	73.5	51.2	68.4	10.4	17.0
MT000180	MT930029/Baroness	190	30.6	5	12	73.1	50.9	64.1	11.4	15.0
ND13299	Conlon	185	28.1	17	23	73.1	48.6	43.1	22.3	14.6
MT000178	MT930029/Baroness	189	29.4	4	13	72.9	50.0	65.4	11.7	16.0
MT000063	H3860224/MT920041	189	29.3	1	7	72.7	50.2	44.3	23.2	16.6
MT000069	H6860756/H3860224	191	28.4	0	0	72.5	50.0	65.5	12.5	16.6
MT000109	MT910150/MT890070	187	28.4	2	5	72.2	52.2	69.3	11.0	16.8
MT000183	MT930029/Baroness	188	28.7	1	6	71.6	49.2	42.9	24.1	17.7
MT000156	MT920059/Baroness	188	30.1	0	0	71.5	49.6	54.0	18.9	16.6
MT960100	Manley/Baronesse	189	27.0	0	1	71.2	48.8	22.0	40.5	16.9
MT000177	MT930029/Baroness	188	28.3	0	0	70.8	48.6	54.7	16.7	17.1
MT000066	H3860224/MT920161	189	30.2	2	34	70.7	49.3	57.2	15.2	17.8
MT970116	Klages/Baronesse	189	32.9	0	2	70.6	51.2	57.5	14.6	17.2
PI605472	Garnet	191	29.4	2	13	70.4	48.1	73.1	8.0	16.4
MT000220	Sissy/MT920161	190	25.2	0	1	70.4	47.3	5.8	62.8	16.2
MT000181	MT930029/Baroness	188	31.2	23	17	70.3	49.9	61.9	13.0	16.4

(Continued)

Table 50. 2001 Early Yield Spring Barley Trial
Exp. 3107 (continued)

ID	Pedigree	Heading	Plant	Lodging	Lodging	Grain	Test	----- Sieve Size -----		Grain
		Date*	Height	Prevalence**	Severity***	Yield	Weight	Plump	Thin	Protein
		day	inches	%	degree	bu/a	lbs/bu	%	%	%
MT000159	MT920059/Baroness	191	29.9	1	13	70.3	53.5	36.9	23.8	15.9
MT000033	CMB6432A/Lewis	189	28.0	0	0	70.3	49.9	61.2	9.1	15.2
CI 15856	Lewis	187	29.4	0	1	69.7	49.5	43.5	23.9	18.5
MT000040	Chinook/MT920161	189	28.8	0	1	69.1	50.2	34.9	30.0	18.3
MT000237	Harrington/MT9200	190	28.7	0	0	68.5	49.1	63.3	14.6	16.3
MT000169	MT920059/H6860756	188	28.8	0	0	68.3	53.4	51.6	16.3	15.6
MT000157	MT920059/Baroness	188	28.1	3	5	68.3	48.0	15.8	49.8	18.3
MT000034	CMB6432A/Lewis	188	28.0	0	0	68.3	52.1	89.1	1.0	16.8
MT000125	MT910189/Lewis	189	30.1	3	16	68.0	50.3	53.8	21.1	15.7
SK 76333	Harrington	188	28.5	0	0	67.9	47.2	48.5	22.5	17.1
MT000224	Triumph/MT910033	188	25.9	27	13	67.7	47.2	29.4	41.3	16.8
MT000219	Sissy/MT920161	189	25.9	7	6	67.6	48.7	35.6	32.8	16.9
PI610264	Valier	191	29.4	2	13	67.2	50.6	29.8	32.9	17.3
MT000214	Sissy/Lewis	187	29.9	0	0	67.0	50.9	79.1	5.5	17.2
MT000128	MT910189/Lewis	187	30.3	0	0	66.8	51.0	47.4	22.5	15.5
MT000223	Texane/H6860756	187	29.5	0	0	66.4	50.4	63.8	12.6	17.2
MT000127	MT910189/Lewis	189	31.3	2	6	66.3	50.1	47.6	23.1	16.1
PI491534	Gallatin	185	29.9	0	1	65.5	49.4	21.6	39.0	17.4
MT000182	MT930029/Baroness	187	30.2	2	22	65.4	50.4	73.2	7.6	16.8
MT000038	Chinook/MT920059	189	30.4	0	0	65.2	49.4	26.4	40.3	16.1
MT000049	Condor/AZ90 123	188	28.4	0	2	65.2	56.0	2.0	76.9	18.6
MT000081	Harrington/MT9200	189	29.1	13	9	65.1	47.6	42.0	23.3	16.8
MT000054	Condor/Baronesse	191	26.3	1	20	65.0	56.9	3.6	58.9	17.0
MT000239	Harrington/MT9200	191	27.7	0	0	64.7	46.9	48.9	21.2	18.2
MT000072	H6860756/H3860224	188	28.5	0	1	64.4	49.6	49.5	19.2	17.8
MT000078	Harrington/MT9200	189	30.1	3	6	64.3	48.1	49.2	20.0	16.8
MT000218	Sissy/MT920161	190	26.0	7	19	64.2	46.9	41.9	26.8	15.8

(Continued)

Table 50. 2001 Early Yield Spring Barley Trial
Exp. 3107 (continued)

ID	Pedigree	Heading	Plant	Lodging	Lodging	Grain	Test	----- Sieve Size -----		Grain
		Date*	Height	Prevalence**	Severity***	Yield	Weight	Plump	Thin	Protein

		day	inches	%	degree	bu/a	lbs/bu	%	%	%
MT970110	Klages/Baronesse	191	29.4	3	10	64.0	48.9	32.1	28.8	18.7
MT000122	MT910150/MT930029	188	27.3	7	18	63.7	49.3	48.8	21.1	17.9
MT000114	MT910150/MT920059	188	31.2	0	0	62.6	48.7	32.5	34.5	16.4
MT000060	Condor/Baronesse	190	27.6	0	1	62.5	59.9	12.1	52.6	16.9
PI547163	Condor	193	19.6	0	2	61.8	54.9	7.2	57.4	18.9
MT000203	MT930029/Triumph	190	22.3	0	1	60.1	47.3	5.9	58.1	18.1
MT000058	Condor/Baronesse	192	27.7	0	0	60.1	57.9	7.9	70.9	17.7
MT000051	Condor/AZ90 123	193	28.8	7	6	55.8	57.2	19.6	67.0	17.8
MT000059	Condor/Baronesse	189	28.6	0	0	55.8	60.6	8.7	60.3	17.7
PI533600	Haybet	187	30.5	0	1	47.6	46.6	7.0	53.6	18.0
Average		189	28.8	2.5	5.5	68.5	50.5	42.9	27.6	16.8
CV (s/mean)*100			3.8	286.4	212.2	6.8	2.7	27.6	36.0	
LSD (0.05)			1.9	11.5	18.6	7.9	2.3	20.4	17.0	

* Heading date is the day from January 1, 2001

** Lodging prevalence is the percentage of plot that is lodged and ranges from 0-100

*** Lodging severity is the angle of lodging from vertical measured in degrees; 0=vertical and 90= horizontal

Seeded: 4/07/01

Fertilizer: 50 lbs of 20-20-0 placed with the seed and 67 lbs of N broadcast applied in fall of 2000 for a total N application of 77 lbs/a.

Previous Crop: Fallow

Soil Temperature: 45 F

Soil Moisture: Good; soil moisture recharged after fallow

Emergence: 2 leaf on May 4, 2001

Precipitation: 7.29 inches

Weed Control: none

Harvested: August 10, 2001