

PROJECT TITLE: **Statewide Barley Performance**

YEAR: **2008**

LOCATIONS:

Bozeman - Hailed out.  
Conrad - dryland  
Havre - dryland  
Huntley - irrigated and dryland  
Kalispell - irrigated  
Moccasin - dryland  
Sidney - irrigated and dryland

PERSONNEL:

Bozeman: Tom Blake (Project Leader) & Stan Bates  
Conrad: Greg Kushnak  
Havre: Gregg Carlson  
Huntley: Ken Kephart  
Kalispell: Bob Stougaard  
Moccasin: Dave Wichman  
Sidney: Joyce Eckhoff

RESULTS:

The statewide (Intrastate) Barley Variety Nursery was grown at the seven locations listed above, with some locations having both irrigated and dryland nurseries. The Bozeman location was lost to hail. Tables 1 and 9 summarize statewide averages for all traits, dryland and irrigated, respectively. Specific performance traits at each location can be found in Tables 2-8 for dryland and Tables 10-16 for irrigated.

The 2008 planting season was delayed due to weather conditions that were wetter and cooler than normal. Cool temperatures persisted throughout much of the growing season for most areas, which delayed plant development. The average heading date was six days later in 2008 than for the previous year.

In the **dryland trials**, the 2-row malt varieties Hockett and Craft were well above average for test weight and percent plump. Highest yields were from the feed varieties Boulder and Champion. In the **irrigated trials**, Champion and Eslick were the highest yielding 2-row feed varieties, while Conrad and the 6-row Tradition were the highest yielding malt varieties.

Future Plans: MAES will continue to evaluate barley lines and varieties in Intrastate Trials.

**Table 1. 2008 Montana Dryland Intrastate Barley - All Traits**

Variety	Yield bu/a	Test Wt lb/bu	Statewide Average*			Height in.	Head date
			Plump %	Thin %	Prot %		
MT050062	75.9	51.4	79.2	8.4	12.1	29.6	180.9
MT040226	75.7	53.3	64.9	10.7	12.5	28.6	179.3
MT040013	74.8	50.3	65.3	12.4	12.7	28.5	180.7
MT061048	74.2	49.6	66.9	13.1	13.3	26.7	181.2
MT030042	74.0	51.7	67.7	14.5	12.5	26.7	179.6
<b>Boulder</b>	73.7	51.3	76.9	7.5	13.7	27.6	179.9
<b>Champion</b>	73.6	51.7	71.1	15.1	12.8	27.9	179.6
<b>GOLDENEYE</b>	73.4	48.0	57.0	17.3	12.4	27.7	175.9
MT050030	73.0	49.8	69.3	9.0	12.6	28.0	180.8
MT030063	73.0	52.3	84.5	4.6	12.8	29.8	181.0
MT061207	72.4	50.9	86.5	5.6	12.7	29.0	178.6
MT061054	72.4	48.6	57.2	16.9	13.1	26.6	182.3
MT050049	72.0	52.0	75.7	10.7	12.6	28.1	179.2
MT061045	71.9	49.0	58.6	16.6	13.2	26.5	181.2
MT040073	71.7	52.3	66.5	9.4	12.9	27.3	180.0
MT061035	71.7	48.8	61.4	17.9	13.2	27.0	180.9
MT061032	71.3	48.8	56.6	20.0	14.2	26.5	182.1
MT030137	71.1	51.5	73.5	13.7	13.3	26.9	179.3
MT040024	70.9	50.9	50.6	22.5	12.5	26.9	178.7
MT050050	70.6	51.4	75.3	10.5	12.4	28.7	179.3
MT020204	70.3	50.8	64.1	17.5	13.3	28.7	178.5
MT020162	70.2	49.9	66.1	12.6	13.3	28.1	181.0
MT040209	70.2	50.8	66.5	11.7	13.0	26.9	180.6
MT050048	70.1	53.0	82.6	6.1	12.9	28.9	180.3
MT061047	70.1	49.0	55.2	17.2	12.8	25.5	182.0
MT061052	70.1	48.3	58.0	18.0	14.3	25.7	181.0
MT061042	70.0	48.7	57.4	14.4	13.5	26.9	181.7
MT010160	70.0	49.7	65.2	12.4	13.1	28.8	180.2
MT061169	69.9	49.7	68.7	14.6	13.6	26.0	180.9
MT050035	69.8	50.2	78.5	6.8	13.0	28.8	180.8
MT040204	69.8	49.2	55.4	16.7	12.8	27.3	182.8
MT061225	69.8	50.2	78.1	9.2	13.2	27.2	179.1
MT061201	69.4	50.7	76.8	8.7	13.0	29.5	178.2
<b>Conrad</b>	69.1	49.1	73.0	9.3	13.4	26.8	181.6
MT040216	69.1	52.4	65.2	12.9	13.0	25.9	181.0
MT061100	68.8	49.2	74.2	12.4	13.2	26.2	179.6
MT030079	68.5	52.2	69.0	13.5	12.8	28.0	179.8
<b>Eslick</b>	68.5	49.9	51.7	25.3	13.5	25.0	181.9
<b>Haxby</b>	68.4	52.7	65.7	16.9	12.7	28.3	179.1
MT040181	68.3	50.3	62.6	17.9	13.2	25.6	181.4
MT061160	67.9	49.4	59.6	16.5	13.6	26.9	180.9

*Continued*

Table 1 cont. Statewide Barley – All Traits (continued)

	Yield	Test Wt	Plump	Thin	Prot	Height	Head
MT050201	67.8	51.9	79.8	8.4	12.8	30.2	178.7
MT061034	67.8	49.1	59.3	14.8	13.6	27.4	181.7
MT061248	67.8	49.0	85.2	4.3	13.4	26.7	179.6
<b>Hockett</b>	67.7	51.1	75.3	12.1	12.7	27.8	178.2
MT061134	67.7	49.1	73.8	11.8	13.4	28.8	181.1
<b>Craft</b>	67.6	51.5	78.2	6.8	13.6	30.3	178.6
MT061051	67.4	48.8	57.5	18.6	13.3	26.7	181.6
MT020155	67.2	49.8	69.8	11.5	13.4	29.2	176.1
MT061058	67.2	49.8	60.5	12.8	13.1	27.9	180.4
<b>AQUILA</b>	67.1	49.5	69.4	19.1	12.5	29.8	173.7
MT061104	66.7	50.5	84.2	6.7	12.8	27.5	179.5
MT040130	66.3	49.1	54.7	21.0	13.8	25.7	182.2
MT061240	66.0	50.4	65.3	13.6	13.3	27.2	180.0
MT061246	65.6	51.6	85.9	4.2	13.7	27.9	179.0
<b>Geraldine</b>	65.1	48.4	46.0	29.0	13.7	25.3	183.0
MT010158	65.0	50.3	74.4	9.6	14.3	27.6	179.7
<b>Tradition</b>	64.5	49.6	68.3	11.5	12.5	29.9	177.8
2B992316	64.4	47.0	58.3	19.3	13.3	25.8	180.9
2B992657	64.1	46.2	61.4	18.3	13.1	27.7	180.7
MT061025	61.0	45.8	43.8	32.5	11.5	26.6	176.1
MT061026	58.9	45.9	42.9	32.5	11.5	25.9	176.1
MT061011	58.6	46.4	48.4	26.5	11.2	25.7	176.0
Means	69.2	49.9	66.5	14.2	13.1	27.5	179.9

\* Locations: Conrad, Havre, Huntley, Moccasin and Sidney. (Bozeman hailed out).

Head Date: 180 = June 29.

**Table 2. 2008 Montana Dryland Intrastate Barley - Yield, bu/a**

Variety	Conrad	Huntley	Sidney	Havre	Moccasin	Average
MT050062	81.2	82.1	70.1	82.3	63.9	75.9
MT040226	75.7	100.0	61.3	78.3	63.2	75.7
MT040013	78.2	93.8	65.7	84.1	52.2	74.8
MT061048	80.4	95.6	62.3	81.1	51.8	74.2
MT030042	77.9	97.8	64.9	77.6	51.6	74.0
<b>Boulder</b>	82.7	97.3	59.0	75.6	53.9	73.7
<b>Champion</b>	80.6	81.8	72.6	84.2	48.8	73.6
<b>GOLDENEYE</b>	83.6	92.2	72.9	68.6	49.7	73.4
MT050030	78.2	89.7	62.0	79.0	56.3	73.0
MT030063	81.0	87.4	70.2	68.8	57.7	73.0
MT061207	67.6	95.4	71.9	78.4	48.9	72.4
MT061054	82.6	98.5	61.1	74.5	45.2	72.4
MT050049	80.0	89.0	64.6	79.4	47.0	72.0
MT061045	84.1	87.0	54.8	78.2	55.3	71.9
MT040073	70.0	84.5	65.4	77.4	61.2	71.7
MT061035	83.2	89.1	59.5	79.4	47.1	71.7
MT061032	80.2	91.9	60.5	77.5	46.2	71.3
MT030137	76.9	83.3	67.9	77.1	50.5	71.1
MT040024	76.5	85.3	64.4	77.5	50.9	70.9
MT050050	75.6	79.7	70.7	75.9	51.4	70.6
MT020204	81.6	83.9	61.4	79.6	45.0	70.3
MT020162	81.3	85.8	57.8	76.2	49.9	70.2
MT040209	82.5	86.9	61.4	70.9	49.1	70.2
MT050048	70.4	82.3	68.1	73.4	56.5	70.1
MT061047	82.2	85.2	55.2	89.1	38.8	70.1
MT061052	74.2	92.8	58.0	80.5	44.9	70.1
MT061042	78.2	94.3	52.6	77.5	47.6	70.0
MT010160	85.5	84.5	59.7	72.8	47.5	70.0
MT061169	80.0	88.1	58.2	77.8	45.4	69.9
MT050035	82.3	80.4	64.2	70.5	51.8	69.8
MT040204	82.7	76.4	63.0	81.1	45.9	69.8
MT061225	72.5	84.1	68.0	71.3	53.1	69.8
MT061201	66.1	87.9	65.7	74.6	52.7	69.4
<b>Conrad</b>	75.7	90.1	63.2	69.1	47.4	69.1
MT040216	70.8	83.6	64.9	71.5	54.6	69.1
MT061100	71.8	89.4	60.4	76.4	46.1	68.8
MT030079	70.1	86.2	65.3	67.8	53.2	68.5
<b>Eslick</b>	80.9	80.7	65.9	68.6	46.4	68.5
<b>Haxby</b>	67.1	76.9	73.1	76.3	48.9	68.4
MT040181	74.6	88.0	58.7	74.1	46.0	68.3
MT061160	79.6	82.9	61.6	71.2	44.4	67.9

*Continued*

Table 2 cont. Statewide Barley – Yield (continued)

Variety	Conrad	Huntley	Sidney	Havre	Moccasin	Average
MT050201	70.2	85.0	62.8	66.7	54.4	67.8
MT061034	78.7	86.4	42.4	76.5	55.0	67.8
MT061248	76.1	90.6	51.7	70.2	50.3	67.8
<b>Hockett</b>	75.8	81.2	63.0	74.5	44.3	67.7
MT061134	74.1	79.2	66.8	68.8	49.6	67.7
<b>Craft</b>	73.3	84.4	57.7	68.1	54.7	67.6
MT061051	71.7	85.5	59.4	74.5	45.7	67.4
MT020155	69.3	85.2	61.7	67.2	52.8	67.2
MT061058	73.5	79.9	60.2	75.6	46.7	67.2
<b>AQUILA</b>	72.4	90.0	64.3	73.4	35.5	67.1
MT061104	74.3	80.2	69.1	65.8	44.3	66.7
MT040130	79.5	79.0	56.7	71.5	44.8	66.3
MT061240	73.9	78.3	61.5	65.7	50.9	66.0
MT061246	69.0	82.5	59.5	73.7	43.5	65.6
<b>Geraldine</b>	79.4	74.0	58.1	68.4	45.4	65.1
MT010158	67.9	69.2	61.2	76.9	49.8	65.0
<b>Tradition</b>	75.9	67.1	60.4	73.3	46.0	64.5
2B992316	68.6	83.4	61.6	66.2	42.4	64.4
2B992657	78.2	77.3	55.4	65.8	43.9	64.1
MT061025	66.2	74.6	60.7	64.9	38.7	61.0
MT061026	64.2	71.4	56.7	63.7	38.4	58.9
MT061011	67.4	71.5	50.5	62.8	40.8	58.6
Means	76.0	85.0	62.0	74.1	49.0	69.2
LSD .05	8.9	13.4	12.5	9.5	10.2	
C.V. %	7.6	9.7	12.4	7.5	8.4	

**Table 3. 2008 Montana Dryland Intrastate Barley Test Weight, lb/bu**

Variety	Conrad	Huntley	Sidney	Havre	Moccasin	Average
MT050062	53.7	52.2	48.5	52.2	50.3	51.4
MT040226	56.3	54.6	50.3	53.6	51.7	53.3
MT040013	53.9	50.4	46.8	51.2	49.2	50.3
MT061048	54.4	49.1	46.2	50.2	48.0	49.6
MT030042	54.3	53.4	49.3	51.6	49.9	51.7
<b>Boulder</b>	54.3	52.8	47.2	52.0	50.0	51.3
<b>Champion</b>	53.4	53.5	49.2	52.4	50.1	51.7
<b>GOLDENEYE</b>	50.5	48.9	45.8	47.6	47.4	48.0
MT050030	52.8	50.1	46.7	49.6	49.6	49.8
MT030063	54.4	53.3	49.7	52.1	51.9	52.3
MT061207	52.2	52.7	50.0	51.4	48.0	50.9
MT061054	54.2	47.7	44.5	49.3	47.1	48.6
MT050049	53.9	53.2	49.8	52.2	50.9	52.0
MT061045	54.0	48.9	44.8	50.0	47.4	49.0
MT040073	54.9	52.9	50.0	53.2	50.5	52.3
MT061035	53.7	47.7	45.5	50.7	46.3	48.8
MT061032	52.7	49.1	45.2	49.8	47.1	48.8
MT030137	54.3	52.3	50.0	52.2	48.7	51.5
MT040024	53.8	51.5	47.3	52.1	49.7	50.9
MT050050	53.4	51.8	49.8	51.6	50.3	51.4
MT020204	54.6	51.5	48.3	51.3	48.1	50.8
MT020162	52.5	52.0	45.7	50.6	48.6	49.9
MT040209	54.1	51.6	47.7	51.1	49.4	50.8
MT050048	54.4	53.0	52.2	53.1	52.2	53.0
MT061047	53.7	48.6	44.0	50.8	48.0	49.0
MT061052	52.1	48.0	44.3	50.5	46.6	48.3
MT061042	53.9	49.0	43.8	49.3	47.6	48.7
MT010160	52.9	51.0	45.8	50.8	47.7	49.7
MT061169	53.7	50.8	46.3	50.0	47.6	49.7
MT050035	52.4	51.6	48.7	50.0	48.3	50.2
MT040204	53.1	48.4	45.7	50.6	48.0	49.2
MT061225	52.5	50.1	47.7	51.7	48.8	50.2
MT061201	53.1	51.6	49.2	51.1	48.3	50.7
<b>Conrad</b>	50.5	50.9	46.3	49.6	48.1	49.1
MT040216	55.5	54.2	49.2	52.4	50.7	52.4
MT061100	52.8	49.9	45.3	50.5	47.3	49.2
MT030079	54.9	53.4	49.8	52.3	50.5	52.2
<b>Eslick</b>	53.3	51.1	46.7	50.4	48.3	49.9
<b>Haxby</b>	55.3	53.6	51.2	52.8	50.3	52.7
MT040181	53.2	51.8	47.3	50.7	48.3	50.3
MT061160	53.4	49.8	45.7	50.0	48.0	49.4

*Continued*

Table 3 cont. Statewide Barley – Test Weight (continued)

Variety	Conrad	Huntley	Sidney	Havre	Moccasin	Average
MT050201	54.9	52.7	49.2	51.9	51.0	51.9
MT061034	53.4	49.8	45.0	50.5	47.0	49.1
MT061248	52.9	49.7	45.5	50.0	46.8	49.0
<b>Hockett</b>	53.8	52.8	49.0	51.9	48.1	51.1
MT061134	51.4	49.8	46.0	51.0	47.2	49.1
<b>Craft</b>	53.7	52.9	48.3	51.4	51.4	51.5
MT061051	53.5	48.8	43.7	49.8	48.0	48.8
MT020155	53.0	50.8	47.2	50.7	47.4	49.8
MT061058	54.4	49.4	45.5	50.9	48.9	49.8
<b>AQUILA</b>	54.0	50.6	47.8	49.5	45.7	49.5
MT061104	53.7	51.6	47.8	51.5	47.7	50.5
MT040130	53.9	48.6	45.0	50.3	47.7	49.1
MT061240	54.3	50.1	47.3	51.4	49.0	50.4
MT061246	53.8	53.3	49.3	52.2	49.4	51.6
<b>Geraldine</b>	53.2	46.3	44.7	49.5	48.3	48.4
MT010158	53.1	51.9	47.5	51.2	47.8	50.3
<b>Tradition</b>	51.3	50.9	47.7	49.0	49.0	49.6
2B992316	50.7	46.5	44.7	48.4	44.6	47.0
2B992657	49.6	46.2	41.7	48.6	44.7	46.2
MT061025	47.0	47.5	46.7	45.4	42.3	45.8
MT061026	48.1	45.8	45.3	46.0	44.2	45.9
MT061011	47.3	48.0	46.3	45.0	45.1	46.4
Means	53.1	50.6	47.1	50.6	48.3	49.9
LSD .05		1.9	1.6	1.0	1.8	
C.V. %		2.2	2.1	1.2	1.5	

**Table 4. 2008 Montana Dryland Intrastate Barley - % Plump**

Variety	Conrad	Huntley	Sidney	Havre	Moccasin	Average
MT050062	97	85.2	74	89.4	50.4	79.2
MT040226	89	80.4	41	93.0	20.9	64.9
MT040013	95	73.7	42	89.4	26.6	65.3
MT061048	96	73.3	49	86.4	29.8	66.9
MT030042	96	81.2	57	83.2	21.2	67.7
<b>Boulder</b>	97	83.9	67	94.1	42.4	76.9
<b>Champion</b>	95	86.5	66	91.0	17.0	71.1
<b>GOLDENEYE</b>	81	65.7	37	79.2	22.0	57.0
MT050030	98	76.9	50	85.8	35.9	69.3
MT030063	98	90.6	80	94.4	59.5	84.5
MT061207	99	91.1	86	96.9	59.4	86.5
MT061054	97	65.4	22	83.3	18.1	57.2
MT050049	97	89.8	74	89.6	27.9	75.7
MT061045	97	65.4	25	82.7	23.1	58.6
MT040073	96	77.9	40	90.2	28.3	66.5
MT061035	98	65.3	40	91.0	12.6	61.4
MT061032	88	70.8	25	90.4	8.6	56.6
MT030137	96	83.2	74	91.8	22.6	73.5
MT040024	92	58.1	16	75.6	11.5	50.6
MT050050	97	81.7	68	89.1	40.9	75.3
MT020204	97	75.0	49	90.1	9.3	64.1
MT020162	96	82.5	41	83.7	27.1	66.1
MT040209	95	74.7	57	80.6	25.4	66.5
MT050048	98	80.1	83	94.8	57.3	82.6
MT061047	94	67.2	18	89.0	7.9	55.2
MT061052	95	66.6	28	85.6	14.7	58.0
MT061042	93	70.3	19	85.3	19.5	57.4
MT010160	97	83.4	32	84.4	29.3	65.2
MT061169	98	80.1	54	90.0	21.4	68.7
MT050035	99	88.7	70	92.8	42.0	78.5
MT040204	86	59.1	40	80.6	11.4	55.4
MT061225	98	80.5	74	94.4	43.7	78.1
MT061201	98	81.2	71	92.2	41.8	76.8
<b>Conrad</b>	100	89.8	50	87.4	37.6	73.0
MT040216	94	86.3	37	89.9	18.6	65.2
MT061100	98	86.7	64	94.2	28.2	74.2
MT030079	97	75.8	57	91.9	23.3	69.0
<b>Eslick</b>	90	60.0	25	67.6	15.7	51.7
<b>Haxby</b>	94	82.6	52	90.6	9.4	65.7
MT040181	99	68.1	50	84.8	11.3	62.6
MT061160	95	77.0	30	85.9	10.2	59.6

*Continued*

Table 4 cont. Statewide Barley – % Plump (continued)

Variety	Conrad	Huntley	Sidney	Havre	Moccasin	Average
MT050201	98	87.9	79	89.9	44.3	79.8
MT061034	98	73.6	20	89.5	15.6	59.3
MT061248	99	90.8	80	96.1	60.2	85.2
<b>Hockett</b>	99	94.3	70	92.4	20.7	75.3
MT061134	95	82.5	63	94.1	34.4	73.8
<b>Craft</b>	98	89.6	60	92.7	50.6	78.2
MT061051	95	70.6	25	84.1	12.9	57.5
MT020155	99	82.2	51	91.0	25.9	69.8
MT061058	97	72.5	27	81.9	24.3	60.5
<b>AQUILA</b>	96	77.5	73	82.4	17.9	69.4
MT061104	99	90.9	84	95.4	51.9	84.2
MT040130	95	53.2	35	75.9	14.5	54.7
MT061240	96	69.3	43	89.8	28.5	65.3
MT061246	99	96.3	79	98.0	57.3	85.9
<b>Geraldine</b>	93	37.9	17	74.1	7.8	46.0
MT010158	93	89.1	69	85.4	35.7	74.4
<b>Tradition</b>	92	79.3	57	84.2	29.1	68.3
2B992316	96	63.9	40	75.7	15.8	58.3
2B992657	98	71.5	34	80.9	22.5	61.4
MT061025	76	51.0	38	41.5	12.4	43.8
MT061026	94	41.8	23	48.0	7.5	42.9
MT061011	91	57.5	35	43.7	14.6	48.4
Mean	95.2	75.8	49.4	85.5	26.6	66.5
LSD .05		13.6				
C.V. %		10.5				

**Table 5. 2008 Montana Dryland Intrastate Barley - % Thin**

Variety	Conrad	Huntley	Havre	Moccasin	Average
MT050062	0.7	5.4	4.0	23.5	8.4
MT040226	2.5	7.5	1.6	31.0	10.7
MT040013	1.8	10.3	3.4	34.1	12.4
MT061048	0.9	10.8	4.2	36.6	13.1
MT030042	1.1	7.8	5.7	43.5	14.5
<b>Boulder</b>	0.7	5.7	1.7	21.8	7.5
<b>Champion</b>	1.2	5.0	2.5	51.5	15.1
<b>GOLDENEYE</b>	0.5	12.7	6.7	49.1	17.3
MT050030	0.5	8.3	4.6	22.7	9.0
MT030063	0.7	3.5	1.8	12.2	4.6
MT061207	0.5	2.9	1.1	17.7	5.6
MT061054	0.6	14.2	5.1	47.6	16.9
MT050049	0.7	4.5	4.0	33.6	10.7
MT061045	0.9	12.9	5.6	46.8	16.6
MT040073	0.9	8.0	2.5	26.0	9.4
MT061035	0.4	13.9	2.6	54.6	17.9
MT061032	3.1	12.8	2.5	61.5	20.0
MT030137	1.2	6.9	2.5	44.1	13.7
MT040024	2.1	19.9	5.9	61.9	22.5
MT050050	0.6	8.5	3.9	29.0	10.5
MT020204	0.7	8.9	2.9	57.6	17.5
MT020162	1.0	7.0	6.5	35.9	12.6
MT040209	1.2	9.9	5.7	29.9	11.7
MT050048	0.4	8.8	1.8	13.3	6.1
MT061047	1.3	12.7	3.6	51.1	17.2
MT061052	3.7	13.9	4.0	50.4	18.0
MT061042	1.5	10.9	5.0	40.1	14.4
MT010160	1.2	6.3	4.7	37.3	12.4
MT061169	0.8	7.7	3.8	46.2	14.6
MT050035	0.4	4.0	2.8	20.0	6.8
MT040204	2.2	14.7	5.7	44.1	16.7
MT061225	0.5	7.3	1.8	27.1	9.2
MT061201	0.7	8.6	2.1	23.2	8.7
<b>Conrad</b>	0.4	4.3	3.9	28.5	9.3
MT040216	0.7	4.6	2.5	43.9	12.9
MT061100	0.7	4.6	1.8	42.5	12.4
MT030079	1.2	10.9	2.4	39.6	13.5
<b>Eslick</b>	3.1	22.7	10.8	64.5	25.3
<b>Haxby</b>	1.4	6.0	2.2	57.8	16.9
MT040181	3.6	13.9	5.0	49.2	17.9
MT061160	1.3	8.3	5.3	51.1	16.5

*Continued*

Table 5 cont. Statewide Barley – % Thin (continued)

Variety	Conrad	Huntley	Havre	Moccasin	Average
MT050201	0.5	4.6	3.6	24.7	8.4
MT061034	0.7	9.6	2.6	46.2	14.8
MT061248	0.4	3.8	1.2	11.9	4.3
<b>Hockett</b>	0.4	1.8	2.6	43.4	12.1
MT061134	1.3	7.0	2.0	36.7	11.8
<b>Craft</b>	0.7	3.8	2.8	19.9	6.8
MT061051	1.3	12.7	5.3	55.2	18.6
MT020155	0.6	7.3	2.4	35.8	11.5
MT061058	0.7	11.5	5.0	34.0	12.8
<b>AQUILA</b>	1.5	9.3	6.6	58.8	19.1
MT061104	0.5	4.3	1.6	20.4	6.7
MT040130	0.9	23.8	9.1	50.2	21.0
MT061240	1.4	11.3	3.0	38.6	13.6
MT061246	0.4	1.5	0.5	14.4	4.2
<b>Geraldine</b>	1.7	41.2	9.9	63.0	29.0
MT010158	2.2	3.7	5.2	27.3	9.6
<b>Tradition</b>	1.0	6.1	4.4	34.3	11.5
2B992316	1.0	17.4	10.0	48.6	19.3
2B992657	0.6	14.4	7.7	50.3	18.3
MT061025	6.6	26.9	27.0	69.5	32.5
MT061026	1.8	34.2	22.6	71.3	32.5
MT061011	2.4	20.9	23.6	58.9	26.5
Mean	1.3	10.5	5.0	40.1	14.2
LSD .05		8.6			
C.V. %		48.4			

**Table 6. 2008 Montana Dryland Intrastate Barley - % Protein**

Variety	Conrad	Huntley	Sidney	Havre	Moccasin	Average
MT050062	10.2	10.2	12.6	14.2	13.4	12.1
MT040226	11.2	10.5	13.6	14.3	13.0	12.5
MT040013	10.1	11.1	12.8	15.4	14.3	12.7
MT061048	9.3	12.0	14.4	15.8	15.1	13.3
MT030042	9.2	12.4	13.2	13.9	13.6	12.5
<b>Boulder</b>	11.0	12.5	14.7	16.0	14.5	13.7
<b>Champion</b>	9.7	11.6	13.6	14.3	14.9	12.8
<b>GOLDENEYE</b>	11.8	11.5	11.8	14.0	13.0	12.4
MT050030	10.1	12.2	13.6	14.1	13.0	12.6
MT030063	9.6	12.2	13.1	15.5	13.7	12.8
MT061207	11.5	11.3	12.4	14.8	13.6	12.7
MT061054	9.0	12.4	14.0	15.9	14.1	13.1
MT050049	10.3	11.0	13.3	14.2	14.0	12.6
MT061045	8.9	11.8	14.2	15.8	15.2	13.2
MT040073	10.3	11.3	13.8	15.0	14.0	12.9
MT061035	9.5	12.4	13.3	15.2	15.6	13.2
MT061032	12.5	12.2	14.7	15.7	16.0	14.2
MT030137	11.6	11.2	12.9	15.5	15.3	13.3
MT040024	10.1	11.0	14.0	13.9	13.2	12.5
MT050050	10.4	11.1	12.2	14.7	13.4	12.4
MT020204	10.6	11.6	13.9	15.7	14.7	13.3
MT020162	9.7	11.7	14.6	15.8	15.0	13.3
MT040209	10.7	10.7	14.1	15.7	13.8	13.0
MT050048	10.9	12.2	13.2	14.9	13.5	12.9
MT061047	8.5	11.9	14.9	15.4	13.3	12.8
MT061052	12.6	12.7	14.7	15.7	15.6	14.3
MT061042	10.2	11.4	15.3	15.9	14.9	13.5
MT010160	10.2	12.1	13.5	15.2	14.4	13.1
MT061169	10.4	11.1	15.1	15.6	15.6	13.6
MT050035	10.9	12.4	13.3	14.7	13.7	13.0
MT040204	10.7	11.3	13.6	14.6	13.9	12.8
MT061225	9.5	12.8	13.7	15.1	14.7	13.2
MT061201	10.9	12.0	13.2	14.8	14.2	13.0
<b>Conrad</b>	10.7	11.2	13.7	16.5	15.2	13.4
MT040216	11.6	10.9	13.6	15.0	14.1	13.0
MT061100	10.7	13.1	13.7	15.2	13.3	13.2
MT030079	11.0	12.4	13.2	14.6	12.9	12.8
<b>Eslick</b>	9.9	12.1	14.1	16.0	15.4	13.5
<b>Haxby</b>	10.7	11.4	12.8	15.2	13.3	12.7
MT040181	10.9	12.3	13.9	15.1	13.6	13.2
MT061160	10.0	12.8	15.9	15.3	14.1	13.6

*Continued*

Table 6 cont. Statewide Barley – % Protein (continued)

Variety	Conrad	Huntley	Sidney	Havre	Moccasin	Average
MT050201	10.6	11.8	13.4	14.8	13.2	12.8
MT061034	9.5	11.4	15.5	15.8	16.0	13.6
MT061248	10.3	11.3	15.5	15.4	14.3	13.4
<b>Hockett</b>	10.4	12.4	12.8	14.4	13.7	12.7
MT061134	12.2	12.2	12.9	15.6	14.2	13.4
<b>Craft</b>	11.0	12.3	15.5	15.2	14.1	13.6
MT061051	8.5	12.2	14.7	15.9	15.4	13.3
MT020155	11.7	11.7	14.4	15.1	14.1	13.4
MT061058	9.0	11.3	15.0	15.5	14.8	13.1
<b>AQUILA</b>	10.5	10.9	12.8	14.0	14.1	12.5
MT061104	9.5	12.3	13.2	15.3	13.8	12.8
MT040130	9.4	12.2	15.6	16.2	15.6	13.8
MT061240	11.1	11.1	13.9	15.3	14.9	13.3
MT061246	11.7	11.8	14.2	15.4	15.2	13.7
<b>Geraldine</b>	10.0	12.7	14.3	15.9	15.5	13.7
MT010158	12.5	13.4	14.9	15.2	15.5	14.3
<b>Tradition</b>	11.8	10.7	12.1	14.4	13.6	12.5
2B992316	10.0	11.9	13.6	15.7	15.3	13.3
2B992657	9.2	11.0	14.0	16.0	15.2	13.1
MT061025	9.9	10.5	11.5	12.7	12.7	11.5
MT061026	9.6	10.6	12.1	12.3	12.8	11.5
MT061011	9.2	9.8	12.1	12.3	12.5	11.2
Mean	10.4	11.7	13.8	15.1	14.3	13.1
LSD .05		1.6	1.9	0.7		
C.V. %		8.0	8.4	2.5		

**Table 7. 2008 Montana Dryland Intrastate Barley - Height, in.**

Variety	Conrad	Huntley	Sidney	Havre	Moccasin	Average
MT050062	29	34.9	27.4	29.1	27.7	29.6
MT040226	27	34.3	25.9	30.6	25.0	28.6
MT040013	26	35.8	26.6	30.0	23.8	28.5
MT061048	26	32.5	22.8	28.8	23.3	26.7
MT030042	25	35.1	23.2	26.9	23.3	26.7
<b>Boulder</b>	26	35.8	24.1	28.0	23.8	27.6
<b>Champion</b>	26	35.0	25.3	28.9	24.1	27.9
<b>GOLDENEYE</b>	26	35.6	27.6	25.6	23.9	27.7
MT050030	26	35.1	24.9	29.9	24.1	28.0
MT030063	28	36.5	28.3	30.4	26.0	29.8
MT061207	26	35.8	28.1	29.2	26.0	29.0
MT061054	25	33.0	24.5	28.5	21.8	26.6
MT050049	28	34.8	25.7	29.7	22.3	28.1
MT061045	24	32.9	22.7	28.1	24.9	26.5
MT040073	24	34.5	24.4	28.2	25.3	27.3
MT061035	25	34.5	23.6	28.3	23.5	27.0
MT061032	24	33.9	23.2	28.0	23.5	26.5
MT030137	25	32.9	25.7	26.7	24.0	26.9
MT040024	25	32.5	25.1	29.1	22.8	26.9
MT050050	27	35.0	26.8	30.3	24.2	28.7
MT020204	27	37.5	26.1	29.9	23.1	28.7
MT020162	28	35.4	24.9	29.1	23.2	28.1
MT040209	26	32.5	23.6	28.7	23.9	26.9
MT050048	29	35.2	26.4	29.0	24.8	28.9
MT061047	23	32.8	23.1	28.2	20.2	25.5
MT061052	23	34.3	22.7	27.2	21.5	25.7
MT061042	25	33.6	24.5	28.4	22.9	26.9
MT010160	28	35.7	26.1	29.1	25.0	28.8
MT061169	24	33.8	23.9	27.4	21.0	26.0
MT050035	28	34.1	26.4	29.8	25.6	28.8
MT040204	26	33.7	24.9	28.4	23.6	27.3
MT061225	24	33.6	25.1	29.1	24.0	27.2
MT061201	29	37.0	25.7	30.5	25.1	29.5
<b>Conrad</b>	25	34.6	24.5	28.7	21.3	26.8
MT040216	25	32.3	24.0	26.4	22.0	25.9
MT061100	25	34.3	22.7	26.9	22.0	26.2
MT030079	26	34.4	26.4	29.6	23.4	28.0
<b>Eslick</b>	23	31.2	23.1	25.5	22.2	25.0
<b>Haxby</b>	25	35.0	27.4	29.4	24.5	28.3
MT040181	23	33.6	22.2	26.5	22.9	25.6
MT061160	23	34.7	24.9	28.9	22.9	26.9

*Continued*

Table 7 cont. Statewide Barley – Height (continued)

Variety	Conrad	Huntley	Sidney	Havre	Moccasin	Average
MT050201	29	37.9	26.4	29.7	27.9	30.2
MT061034	26	33.7	24.1	27.6	25.5	27.4
MT061248	24	35.4	24.1	26.8	23.1	26.7
<b>Hockett</b>	28	34.8	24.9	27.9	23.6	27.8
MT061134	28	34.1	26.6	28.7	26.5	28.8
<b>Craft</b>	29	37.4	28.0	31.7	25.3	30.3
MT061051	25	33.8	23.9	28.5	22.2	26.7
MT020155	28	37.5	25.5	29.2	26.1	29.2
MT061058	25	34.5	26.0	29.9	24.0	27.9
<b>AQUILA</b>	30	36.9	29.4	29.2	23.7	29.8
MT061104	27	36.0	24.8	28.2	21.7	27.5
MT040130	23	30.9	21.5	28.2	24.8	25.7
MT061240	24	32.9	25.1	28.4	25.4	27.2
MT061246	26	35.8	25.9	29.4	22.6	27.9
<b>Geraldine</b>	25	30.8	22.0	26.8	21.9	25.3
MT010158	26	34.7	25.5	28.4	23.3	27.6
<b>Tradition</b>	28	35.1	30.7	29.3	26.5	29.9
2B992316	24	32.8	22.8	27.5	21.8	25.8
2B992657	28	32.4	24.9	28.6	24.6	27.7
MT061025	24	32.4	26.0	28.9	21.9	26.6
MT061026	24	32.4	23.9	28.0	21.1	25.9
MT061011	23	32.8	23.8	26.2	22.8	25.7
Mean	25.9	34.4	25.1	28.6	23.7	27.5
LSD .05		2.8	2.5	2.7	3.2	
C.V. %		4.8	6.2	5.6	3.8	

**Table 8. 2008 Montana Dryland Intrastate Barley - Head Date**  
Days from January 1

Variety	Conrad	Huntley	Sidney	Havre	Moccasin	Average
MT050062	191	173.0	172.3	184.2	183.9	180.9
MT040226	188	170.3	170.3	184.6	183.4	179.3
MT040013	188	174.7	171.7	184.8	184.5	180.7
MT061048	189	174.3	171.7	186.8	184.4	181.2
MT030042	188	172.3	169.7	184.5	183.7	179.6
<b>Boulder</b>	188	173.0	171.0	183.9	183.6	179.9
<b>Champion</b>	188	172.0	170.7	183.4	184.1	179.6
<b>GOLDENEYE</b>	185	166.7	166.7	180.1	181.0	175.9
MT050030	191	172.7	170.7	185.9	183.5	180.8
MT030063	189	173.3	172.0	186.8	184.0	181.0
MT061207	186	170.0	169.0	184.9	182.9	178.6
MT061054	189	177.0	172.3	186.8	186.2	182.3
MT050049	187	172.3	169.7	184.2	182.9	179.2
MT061045	190	174.0	171.7	185.9	184.6	181.2
MT040073	189	172.3	170.3	184.8	183.6	180.0
MT061035	189	173.0	173.0	184.8	184.7	180.9
MT061032	189	174.7	172.0	189.5	185.5	182.1
MT030137	186	172.0	170.0	185.4	182.9	179.3
MT040024	186	170.0	169.7	184.5	183.4	178.7
MT050050	187	172.3	169.7	184.2	183.5	179.3
MT020204	187	170.3	169.7	183.2	182.3	178.5
MT020162	190	172.7	170.7	186.4	185.1	181.0
MT040209	188	173.7	171.3	185.2	184.9	180.6
MT050048	188	173.0	171.7	185.3	183.5	180.3
MT061047	191	175.0	172.0	186.7	185.3	182.0
MT061052	189	174.0	172.7	185.0	184.4	181.0
MT061042	190	174.0	172.3	187.4	184.8	181.7
MT010160	189	172.0	170.7	185.6	183.7	180.2
MT061169	189	173.0	171.0	185.9	185.6	180.9
MT050035	189	173.0	171.0	186.4	184.5	180.8
MT040204	191	177.0	172.3	187.9	185.5	182.8
MT061225	187	171.0	170.0	185.1	182.2	179.1
MT061201	187	170.0	168.3	183.2	182.5	178.2
<b>Conrad</b>	189	173.3	171.0	189.1	185.8	181.6
MT040216	189	172.7	171.3	187.3	184.9	181.0
MT061100	189	172.7	168.7	186.0	181.6	179.6
MT030079	187	172.0	171.0	185.8	183.3	179.8
<b>Eslick</b>	190	174.7	171.7	187.5	185.8	181.9
<b>Haxby</b>	186	172.3	170.3	184.1	182.8	179.1
MT040181	190	173.3	170.3	189.1	184.3	181.4
MT061160	189	172.7	170.7	187.5	184.8	180.9

*Continued*

Table 8 cont. Statewide Barley – Head Date (continued)

Variety	Conrad	Huntley	Sidney	Havre	Moccasin	Average
MT050201	186	171.3	170.3	183.4	182.7	178.7
MT061034	189	174.3	173.0	187.3	185.0	181.7
MT061248	188	171.7	170.3	184.7	183.2	179.6
<b>Hockett</b>	185	170.7	168.7	183.8	183.1	178.2
MT061134	190	172.0	171.7	188.2	183.4	181.1
<b>Craft</b>	187	170.7	169.7	182.8	183.0	178.6
MT061051	191	174.3	172.7	184.8	185.3	181.6
MT020155	185	169.3	167.3	178.3	180.5	176.1
MT061058	190	172.0	172.0	183.7	184.2	180.4
<b>AQUILA</b>	183	164.0	165.0	177.6	179.1	173.7
MT061104	189	171.0	168.7	185.4	183.4	179.5
MT040130	191	173.3	172.0	188.9	185.8	182.2
MT061240	189	172.3	171.0	183.7	184.1	180.0
MT061246	189	170.7	169.3	182.4	183.6	179.0
<b>Geraldine</b>	191	174.0	172.0	189.5	188.4	183.0
MT010158	188	172.3	169.0	185.1	183.9	179.7
<b>Tradition</b>	186	169.7	169.0	181.7	182.8	177.8
2B992316	190	173.0	171.3	185.0	185.0	180.9
2B992657	190	171.3	171.0	185.2	186.1	180.7
MT061025	185	168.3	167.0	179.0	181.2	176.1
MT061026	186	169.0	166.7	178.3	180.5	176.1
MT061011	185	168.0	166.7	179.3	180.9	176.0
Mean	188.2	172.2	170.4	184.9	183.8	179.9
LSD .05		1.2	1.2	2.5	1.3	
C.V. %		0.4	1.1	0.8	0.6	

Head Date: 180 = June 29.

**Table 9. 2008 Montana Irrigated Intrastate Barley - All Traits**

Variety	Yield bu/a	Test Wt lb/bu	Statewide Average*			Height in.	Head date
			Plump %	Thin %	Prot %		
<b>GOLDENEYE</b>	152.8	50.6	92.7	4.5	12.1	33.7	176.5
MT061045	142.1	52.7	93.4	6.3	12.9	34.0	180.9
MT040209	141.4	53.3	94.9	3.1	12.2	33.2	180.3
<b>Champion</b>	140.6	53.2	96.7	1.9	12.9	35.7	179.3
MT040204	140.1	52.7	96.2	3.3	11.2	33.8	181.7
MT040181	140.0	53.3	92.7	5.3	12.1	32.5	179.4
MT040013	140.0	53.6	94.7	4.6	11.4	35.3	180.5
<b>Eslick</b>	137.8	52.4	92.1	5.1	11.5	30.6	180.7
MT061042	137.5	52.8	96.6	3.2	11.9	33.5	180.8
MT061240	137.3	53.3	95.1	3.4	12.1	34.7	179.6
<b>Conrad</b>	136.8	53.1	95.5	2.1	12.4	32.7	179.8
MT061052	136.7	52.8	95.8	3.9	11.3	33.4	180.6
2B992657	136.6	49.7	91.1	4.5	12.3	34.4	181.0
<b>Tradition</b>	136.3	50.9	92.7	7.8	12.5	36.4	177.8
MT061058	136.1	53.8	97.0	2.4	12.0	34.7	178.4
MT061035	136.1	52.7	96.3	2.5	11.5	32.3	180.4
MT050049	135.7	54.1	96.2	3.4	11.7	34.3	179.1
MT030042	135.7	53.7	94.2	5.5	10.9	32.8	178.7
MT040024	135.6	52.9	94.9	4.2	11.3	32.1	178.1
MT030137	135.2	53.5	96.0	3.9	12.7	31.9	178.2
MT061051	135.1	52.4	95.3	4.0	12.1	33.3	181.3
MT050035	135.1	53.6	98.6	1.3	11.7	34.3	180.6
MT020162	135.0	53.1	94.0	5.3	12.6	34.6	179.9
MT061047	135.0	52.8	96.3	3.3	12.3	33.9	181.0
<b>Boulder</b>	135.0	53.3	96.8	2.2	13.7	33.4	180.2
<b>AQUILA</b>	134.5	51.4	94.5	4.6	11.6	34.2	174.9
MT061032	133.5	52.9	96.9	3.1	11.6	31.9	180.9
MT040226	133.5	55.1	95.2	2.3	12.1	34.9	178.9
MT050050	133.2	54.0	96.9	2.4	11.6	34.0	178.8
MT030063	132.5	53.7	97.4	3.0	12.4	36.8	180.3
MT050062	132.4	53.5	96.5	3.1	10.9	35.3	179.9
MT061160	132.0	53.3	96.7	2.8	12.9	33.7	180.1
MT061225	131.9	53.3	96.3	3.8	12.0	32.9	177.4
MT020204	131.6	53.3	94.2	5.1	12.8	34.2	178.3
MT061054	131.5	52.9	97.0	2.9	11.2	32.0	181.0
MT050030	131.2	53.2	96.9	3.1	11.2	33.8	180.2
MT020155	130.6	52.5	94.1	5.4	13.0	36.0	176.1
MT040073	130.3	54.2	96.4	2.6	12.4	33.1	179.7
MT061034	130.0	52.6	94.6	4.5	11.8	32.5	181.6
<b>Geraldine</b>	129.4	52.2	90.5	7.6	11.9	32.1	181.7
MT061207	128.9	53.3	97.9	1.7	12.6	34.0	178.5

*Continued*

Table 9 cont. Statewide Irrigated Barley – All Traits (continued)

	Yield	Test Wt	Plump	Thin	Prot	Height	Head
<b>Hockett</b>	128.6	53.2	93.6	4.4	12.8	33.7	178.1
MT061100	126.8	52.2	96.6	2.8	12.1	32.5	179.0
MT040130	126.7	53.0	92.9	6.9	12.7	33.0	181.9
MT030079	126.7	53.9	95.1	2.4	12.1	34.0	179.3
MT061169	126.7	52.5	94.7	5.1	12.9	32.7	180.5
MT061134	126.2	52.4	97.0	2.4	12.2	35.0	179.2
MT061104	125.9	52.8	97.8	1.5	12.0	34.4	178.9
MT061248	125.5	53.5	98.7	0.9	12.3	33.3	178.2
2B992316	125.4	52.3	94.6	3.3	10.7	32.9	179.7
MT050201	125.3	53.3	96.3	1.9	12.0	37.2	177.5
<b>Craft</b>	122.8	54.0	97.4	2.7	11.8	36.3	177.8
MT040216	122.5	54.6	97.0	2.3	11.5	32.2	179.4
MT050048	122.1	54.1	97.8	1.9	11.9	35.1	179.5
MT061048	121.2	52.7	96.3	2.6	11.3	32.0	180.6
<b>Haxby</b>	119.7	54.2	94.9	3.0	11.7	32.7	178.9
MT010158	119.3	52.6	95.9	3.4	12.4	32.7	178.2
MT010160	118.8	52.9	93.0	5.1	12.0	35.7	179.7
MT061201	118.6	53.1	96.0	4.4	12.5	35.7	177.6
MT061011	118.4	48.7	89.6	11.3	10.3	31.7	175.8
MT061026	116.6	48.5	90.6	10.6	10.6	31.3	175.8
MT061025	114.9	48.4	85.3	17.1	10.5	30.5	176.4
MT061246	108.9	53.3	98.3	1.3	14.4	35.5	177.8
Means	130.9	52.8	95.2	4.0	12.0	33.7	179.3

\* Locations: Huntley, Kalispell and Sidney. (Bozeman hailed out).

Head Date: 180 = June 29

**Table 10. 2008 Montana Irrigated Intrastate Barley - Yield, bu/a**

Variety	Huntley	Kalispell	Sidney	Average
<b>GOLDENEYE</b>	127.9	173.9	156.6	152.8
MT061045	141.1	127.1	158.0	142.1
MT040209	130.5	146.0	147.6	141.4
<b>Champion</b>	126.6	144.8	150.4	140.6
MT040204	126.2	142.3	151.8	140.1
MT040181	136.7	125.6	157.8	140.0
MT040013	123.2	143.6	153.2	140.0
<b>Eslick</b>	116.2	139.4	157.9	137.8
MT061042	129.3	131.6	151.5	137.5
MT061240	116.3	152.2	143.3	137.3
<b>Conrad</b>	119.6	141.3	149.4	136.8
MT061052	133.0	126.8	150.4	136.7
2B992657	144.6	133.8	131.4	136.6
<b>Tradition</b>	130.6	141.1	137.2	136.3
MT061058	114.3	145.7	148.4	136.1
MT061035	128.9	139.0	140.4	136.1
MT050049	118.5	151.7	137.0	135.7
MT030042	108.2	141.4	157.4	135.7
MT040024	115.2	151.0	140.7	135.6
MT030137	128.3	137.4	140.0	135.2
MT061051	111.1	145.5	148.6	135.1
MT050035	118.4	147.0	139.8	135.1
MT020162	127.8	135.6	141.7	135.0
MT061047	132.1	127.3	145.7	135.0
<b>Boulder</b>	132.9	130.9	141.2	135.0
<b>AQUILA</b>	103.5	148.5	151.6	134.5
MT061032	112.0	134.8	153.8	133.5
MT040226	112.8	147.3	140.5	133.5
MT050050	120.5	144.8	134.4	133.2
MT030063	118.5	144.2	134.9	132.5
MT050062	114.1	152.1	131.1	132.4
MT061160	123.2	121.0	151.7	132.0
MT061225	124.0	119.3	152.4	131.9
MT020204	129.8	120.9	144.1	131.6
MT061054	115.8	131.0	147.6	131.5
MT050030	103.6	149.0	141.0	131.2
MT020155	131.7	121.2	138.8	130.6
MT040073	107.5	144.9	138.4	130.3
MT061034	126.4	128.4	135.1	130.0
<b>Geraldine</b>	115.5	138.3	134.4	129.4
MT061207	113.6	134.9	138.3	128.9

*Continued*

Table 10 cont Irrigated Statewide Barley – Yield (continued)

Variety	Huntley	Kalispell	Sidney	Average
<b>Hockett</b>	129.5	123.0	133.3	128.6
MT061100	119.0	118.9	142.5	126.8
MT040130	111.0	123.8	145.4	126.7
MT030079	99.5	141.3	139.3	126.7
MT061169	105.9	136.2	138.0	126.7
MT061134	119.2	125.3	134.0	126.2
MT061104	100.5	144.4	132.7	125.9
MT061248	105.1	130.3	141.1	125.5
2B992316	107.5	132.9	135.7	125.4
MT050201	109.1	129.3	137.4	125.3
<b>Craft</b>	96.8	131.2	140.3	122.8
MT040216	105.4	122.9	139.1	122.5
MT050048	101.9	141.1	123.2	122.1
MT061048	105.7	131.0	126.9	121.2
<b>Haxby</b>	103.0	133.1	122.9	119.7
MT010158	102.1	130.9	125.0	119.3
MT010160	99.1	126.7	130.6	118.8
MT061201	97.1	112.7	146.1	118.6
MT061011	89.4	124.5	141.3	118.4
MT061026	97.1	119.3	133.4	116.6
MT061025	88.9	128.8	126.9	114.9
MT061246	121.0	71.5	134.1	108.9
Mean	116.6	134.0	141.6	130.9
LSD .05	29.2	15.0	19.9	
C.V. %	15.5	9.4	8.7	

**Table 11. 2008 Montana Irrigated Intrastate Barley - Test Weight, lb/bu**

Variety	Huntley	Kalispell	Sidney	Average
<b>GOLDENEYE</b>	52.2	48.7	50.8	50.6
MT061045	52.5	53.0	52.7	52.7
MT040209	54.3	52.2	53.5	53.3
<b>Champion</b>	53.5	52.4	53.7	53.2
MT040204	53.3	52.1	52.7	52.7
MT040181	53.9	52.9	53.2	53.3
MT040013	53.7	53.4	53.7	53.6
<b>Eslick</b>	53.5	51.1	52.7	52.4
MT061042	53.1	52.5	52.7	52.8
MT061240	54.5	52.0	53.3	53.3
<b>Conrad</b>	53.1	52.8	53.3	53.1
MT061052	53.2	52.4	52.8	52.8
2B992657	52.2	47.1	49.7	49.7
<b>Tradition</b>	50.9	51.5	50.2	50.9
MT061058	54.6	53.4	53.3	53.8
MT061035	53.3	51.7	53.0	52.7
MT050049	54.3	54.8	53.3	54.1
MT030042	54.7	53.8	52.5	53.7
MT040024	53.5	52.6	52.7	52.9
MT030137	53.8	53.0	53.8	53.5
MT061051	53.0	51.8	52.3	52.4
MT050035	54.3	53.0	53.5	53.6
MT020162	53.7	52.6	53.0	53.1
MT061047	52.7	53.0	52.8	52.8
<b>Boulder</b>	53.3	52.5	54.2	53.3
<b>AQUILA</b>	52.2	50.0	52.0	51.4
MT061032	53.4	52.4	52.8	52.9
MT040226	56.1	54.3	54.8	55.1
MT050050	54.8	53.3	53.8	54.0
MT030063	53.9	53.9	53.3	53.7
MT050062	53.8	53.0	53.7	53.5
MT061160	54.1	53.0	52.8	53.3
MT061225	53.8	53.8	52.3	53.3
MT020204	54.0	52.8	53.2	53.3
MT061054	53.5	52.8	52.5	52.9
MT050030	53.5	52.7	53.3	53.2
MT020155	53.4	52.0	52.0	52.5
MT040073	55.1	53.9	53.7	54.2
MT061034	52.7	52.3	52.8	52.6
<b>Geraldine</b>	52.3	51.9	52.5	52.2
MT061207	53.6	53.1	53.2	53.3

*Continued*

Table 11 cont Irrigated Statewide Barley – Test Weight (continued)

Variety	Huntley	Kalispell	Sidney	Average
<b>Hockett</b>	53.3	54.1	52.2	53.2
MT061100	52.4	51.7	52.5	52.2
MT040130	52.2	53.5	53.2	53.0
MT030079	54.7	53.0	54.0	53.9
MT061169	52.8	52.8	52.0	52.5
MT061134	53.3	51.7	52.2	52.4
MT061104	53.7	52.0	52.7	52.8
MT061248	53.8	53.3	53.3	53.5
2B992316	52.6	52.8	51.5	52.3
MT050201	54.6	52.1	53.2	53.3
<b>Craft</b>	54.2	54.1	53.8	54.0
MT040216	55.2	54.1	54.5	54.6
MT050048	55.2	53.2	53.8	54.1
MT061048	53.4	51.8	52.8	52.7
<b>Haxby</b>	54.8	53.7	54.0	54.2
MT010158	53.7	52.3	51.7	52.6
MT010160	54.1	52.8	51.7	52.9
MT061201	53.9	53.0	52.5	53.1
MT061011	48.8	48.6	48.7	48.7
MT061026	49.3	48.3	48.0	48.5
MT061025	49.0	48.0	48.2	48.4
MT061246	53.7	52.5	53.8	53.3
Mean	53.4	52.5	52.7	52.8
LSD .05	1.0		1.0	
C.V. %	1.2		1.2	

**Table 12. 2008 Montana Irrigated Intrastate Barley - % Plump**

Variety	Huntley	Kalispell	Sidney	Average
<b>GOLDENEYE</b>	94.7	92.4	91	92.7
MT061045	89.3	98.8	92	93.4
MT040209	96.4	94.2	94	94.9
<b>Champion</b>	97.7	96.5	96	96.7
MT040204	96.5	97.1	95	96.2
MT040181	93.0	94.2	91	92.7
MT040013	93.3	97.9	93	94.7
<b>Eslick</b>	95.3	89.9	91	92.1
MT061042	95.8	99.0	95	96.6
MT061240	98.2	93.1	94	95.1
<b>Conrad</b>	97.4	92.0	97	95.5
MT061052	96.4	97.9	93	95.8
2B992657	93.6	85.7	94	91.1
<b>Tradition</b>	95.5	98.7	84	92.7
MT061058	98.2	97.9	95	97.0
MT061035	95.8	96.1	97	96.3
MT050049	98.2	97.5	93	96.2
MT030042	96.1	96.4	90	94.2
MT040024	96.1	95.5	93	94.9
MT030137	96.2	97.9	94	96.0
MT061051	95.5	96.5	94	95.3
MT050035	98.6	99.3	98	98.6
MT020162	93.4	97.5	91	94.0
MT061047	92.6	99.2	97	96.3
<b>Boulder</b>	97.1	97.4	96	96.8
<b>AQUILA</b>	94.8	95.6	93	94.5
MT061032	97.0	98.7	95	96.9
MT040226	98.2	92.5	95	95.2
MT050050	98.1	96.7	96	96.9
MT030063	98.0	99.2	95	97.4
MT050062	97.3	97.1	95	96.5
MT061160	97.0	97.1	96	96.7
MT061225	97.0	98.8	93	96.3
MT020204	93.5	97.1	92	94.2
MT061054	96.1	98.9	96	97.0
MT050030	97.3	99.3	94	96.9
MT020155	94.4	97.8	90	94.1
MT040073	97.5	95.6	96	96.4
MT061034	91.7	98.1	94	94.6
<b>Geraldine</b>	87.0	93.6	91	90.5
MT061207	98.9	97.7	97	97.9

*Continued*

Table 12 cont Irrigated Statewide Barley – % Plump (continued)

Variety	Huntley	Kalispell	Sidney	Average
<b>Hockett</b>	95.0	93.7	92	93.6
MT061100	96.4	97.3	96	96.6
MT040130	84.8	98.8	95	92.9
MT030079	97.6	91.6	96	95.1
MT061169	97.8	96.2	90	94.7
MT061134	98.5	97.6	95	97.0
MT061104	97.7	97.7	98	97.8
MT061248	98.3	98.8	99	98.7
2B992316	95.9	93.8	94	94.6
MT050201	97.9	94.1	97	96.3
<b>Craft</b>	98.8	98.4	95	97.4
MT040216	98.5	96.4	96	97.0
MT050048	98.1	98.3	97	97.8
MT061048	97.1	95.9	96	96.3
<b>Haxby</b>	98.1	91.7	95	94.9
MT010158	98.3	95.3	94	95.9
MT010160	97.6	91.4	90	93.0
MT061201	97.9	98.1	92	96.0
MT061011	93.9	97.0	78	89.6
MT061026	93.9	97.9	80	90.6
MT061025	94.1	97.9	64	85.3
MT061246	98.5	99.5	97	98.3
Mean	96.0	96.4	93.3	95.2
LSD .05	4.0			
C.V. %	2.6			

**Table 13. 2008 Montana Irrigated Intrastate Barley - % Thin**

Variety	Huntley	Sidney	Average
<b>GOLDENEYE</b>	2.0	7.0	4.5
MT061045	5.6	7.0	6.3
MT040209	1.2	5.0	3.1
<b>Champion</b>	0.8	3.0	1.9
MT040204	1.6	5.0	3.3
MT040181	3.6	7.0	5.3
MT040013	3.2	6.0	4.6
<b>Eslick</b>	2.2	8.0	5.1
MT061042	2.3	4.0	3.2
MT061240	0.7	6.0	3.4
<b>Conrad</b>	1.2	3.0	2.1
MT061052	1.7	6.0	3.9
2B992657	3.0	6.0	4.5
<b>Tradition</b>	1.6	14.0	7.8
MT061058	0.8	4.0	2.4
MT061035	2.0	3.0	2.5
MT050049	0.8	6.0	3.4
MT030042	1.9	9.0	5.5
MT040024	1.4	7.0	4.2
MT030137	1.7	6.0	3.9
MT061051	1.9	6.0	4.0
MT050035	0.5	2.0	1.3
MT020162	3.5	7.0	5.3
MT061047	3.5	3.0	3.3
<b>Boulder</b>	1.3	3.0	2.2
<b>AQUILA</b>	2.2	7.0	4.6
MT061032	1.2	5.0	3.1
MT040226	0.6	4.0	2.3
MT050050	0.8	4.0	2.4
MT030063	1.0	5.0	3.0
MT050062	1.1	5.0	3.1
MT061160	1.6	4.0	2.8
MT061225	1.5	6.0	3.8
MT020204	3.2	7.0	5.1
MT061054	1.7	4.0	2.9
MT050030	1.1	5.0	3.1
MT020155	2.7	8.0	5.4
MT040073	1.2	4.0	2.6
MT061034	4.0	5.0	4.5
<b>Geraldine</b>	7.1	8.0	7.6
MT061207	0.4	3.0	1.7

*Continued*

Table 13 cont Irrigated Statewide Barley - % Thin (continued)

Variety	Huntley	Sidney	Average
<b>Hockett</b>	2.7	6.0	4.4
MT061100	1.6	4.0	2.8
MT040130	8.7	5.0	6.9
MT030079	0.7	4.0	2.4
MT061169	1.1	9.0	5.1
MT061134	0.7	4.0	2.4
MT061104	1.0	2.0	1.5
MT061248	0.8	1.0	0.9
2B992316	1.5	5.0	3.3
MT050201	0.7	3.0	1.9
<b>Craft</b>	0.4	5.0	2.7
MT040216	0.5	4.0	2.3
MT050048	0.7	3.0	1.9
MT061048	1.2	4.0	2.6
<b>Haxby</b>	0.9	5.0	3.0
MT010158	0.7	6.0	3.4
MT010160	1.2	9.0	5.1
MT061201	0.8	8.0	4.4
MT061011	2.6	20.0	11.3
MT061026	2.1	19.0	10.6
MT061025	2.2	32.0	17.1
MT061246	0.5	2.0	1.3
Mean	1.8	6.1	4.0
LSD .05	2.4		
C.V. %	83.1		

**Table 14. 2008 Montana Irrigated Intrastate Barley - % Protein**

Variety	Huntley	Kalispell	Sidney	Average
<b>GOLDENEYE</b>	11.2	14.4	10.8	12.1
MT061045	12.2	13.4	13.0	12.9
MT040209	11.1	13.0	12.4	12.2
<b>Champion</b>	10.8	14.5	13.3	12.9
MT040204	9.6	12.7	11.3	11.2
MT040181	10.9	13.6	11.9	12.1
MT040013	10.4	12.8	11.0	11.4
<b>Eslick</b>	10.1	12.8	11.5	11.5
MT061042	10.3	13.8	11.5	11.9
MT061240	10.2	14.2	12.0	12.1
<b>Conrad</b>	11.0	13.3	12.8	12.4
MT061052	9.9	13.8	10.2	11.3
2B992657	11.3	14.6	10.9	12.3
<b>Tradition</b>	12.0	13.5	12.0	12.5
MT061058	9.8	13.7	12.6	12.0
MT061035	9.8	14.8	9.9	11.5
MT050049	10.0	12.8	12.2	11.7
MT030042	10.1	12.2	10.4	10.9
MT040024	9.2	13.0	11.6	11.3
MT030137	12.4	13.8	11.8	12.7
MT061051	9.6	14.5	12.2	12.1
MT050035	10.8	13.4	10.9	11.7
MT020162	11.4	14.1	12.2	12.6
MT061047	11.3	13.7	11.9	12.3
<b>Boulder</b>	12.6	15.1	13.3	13.7
<b>AQUILA</b>	10.8	13.7	10.2	11.6
MT061032	9.4	13.3	12.2	11.6
MT040226	10.3	13.8	12.1	12.1
MT050050	9.7	13.8	11.3	11.6
MT030063	11.4	13.0	12.7	12.4
MT050062	9.0	12.7	10.9	10.9
MT061160	10.6	14.5	13.7	12.9
MT061225	11.3	13.1	11.7	12.0
MT020204	12.1	15.1	11.3	12.8
MT061054	9.1	13.5	10.9	11.2
MT050030	8.8	12.9	12.0	11.2
MT020155	12.3	14.1	12.6	13.0
MT040073	11.1	14.1	12.1	12.4
MT061034	10.8	14.1	10.6	11.8
<b>Geraldine</b>	10.7	13.7	11.2	11.9
MT061207	11.5	13.7	12.7	12.6

*Continued*

Table 14 cont Irrigated Statewide Barley – % Protein (continued)

Variety	Huntley	Kalispell	Sidney	Average
<b>Hockett</b>	12.7	13.6	12.0	12.8
MT061100	10.6	14.0	11.7	12.1
MT040130	12.0	14.0	12.2	12.7
MT030079	9.8	14.7	11.8	12.1
MT061169	9.7	15.1	14.0	12.9
MT061134	11.1	14.0	11.5	12.2
MT061104	10.5	14.3	11.3	12.0
MT061248	10.4	14.7	11.7	12.3
2B992316	9.3	12.0	10.8	10.7
MT050201	10.4	14.9	10.6	12.0
<b>Craft</b>	9.9	13.9	11.7	11.8
MT040216	10.0	13.2	11.3	11.5
MT050048	9.5	14.3	11.9	11.9
MT061048	9.1	14.2	10.7	11.3
<b>Haxby</b>	9.3	14.0	11.7	11.7
MT010158	11.0	15.0	11.3	12.4
MT010160	10.3	13.5	12.3	12.0
MT061201	10.0	14.2	13.2	12.5
MT061011	10.0	11.4	9.6	10.3
MT061026	10.0	11.8	10.1	10.6
MT061025	9.7	11.4	10.4	10.5
MT061246	13.3	16.5	13.5	14.4
Mean	10.6	13.7	11.7	12.0
LSD .05	2.1		1.9	
C.V. %	12.2		10.2	

**Table 15. 2008 Montana Irrigated Intrastate Barley - Height, in.**

Variety	Huntley	Kalispell	Sidney	Average
<b>GOLDENEYE</b>	36.0	32.5	32.7	33.7
MT061045	37.4	31.3	33.3	34.0
MT040209	35.2	30.8	33.6	33.2
<b>Champion</b>	38.5	35.0	33.7	35.7
MT040204	34.5	31.8	35.2	33.8
MT040181	35.5	30.9	31.2	32.5
MT040013	37.5	33.1	35.4	35.3
<b>Eslick</b>	32.5	28.6	30.7	30.6
MT061042	35.7	32.4	32.4	33.5
MT061240	37.0	33.4	33.6	34.7
<b>Conrad</b>	34.2	31.0	32.8	32.7
MT061052	37.2	29.9	32.9	33.4
2B992657	37.0	33.2	32.9	34.4
<b>Tradition</b>	38.8	34.7	35.7	36.4
MT061058	36.5	35.0	32.7	34.7
MT061035	35.4	30.2	31.2	32.3
MT050049	35.1	33.7	34.0	34.3
MT030042	35.2	29.9	33.3	32.8
MT040024	34.5	28.9	32.9	32.1
MT030137	33.9	29.7	32.2	31.9
MT061051	34.3	32.3	33.3	33.3
MT050035	35.8	33.9	33.3	34.3
MT020162	35.8	33.9	34.0	34.6
MT061047	37.4	32.7	31.8	33.9
<b>Boulder</b>	37.9	30.0	32.4	33.4
<b>AQUILA</b>	34.6	33.6	34.5	34.2
MT061032	31.5	31.2	32.9	31.9
MT040226	36.3	34.2	34.4	34.9
MT050050	35.4	32.9	33.7	34.0
MT030063	40.5	35.4	34.4	36.8
MT050062	37.3	35.3	33.3	35.3
MT061160	35.7	32.7	32.7	33.7
MT061225	34.3	31.6	32.9	32.9
MT020204	37.0	31.5	34.0	34.2
MT061054	32.8	30.9	32.2	32.0
MT050030	34.0	32.6	34.6	33.8
MT020155	39.8	32.1	36.2	36.0
MT040073	34.9	32.4	31.9	33.1
MT061034	35.4	30.1	31.9	32.5
<b>Geraldine</b>	34.8	30.8	30.7	32.1
MT061207	36.3	33.1	32.7	34.0

*Continued*

Table 15 cont Irrigated Statewide Barley – Height (continued)

Variety	Huntley	Kalispell	Sidney	Average
<b>Hockett</b>	35.9	31.0	34.1	33.7
MT061100	35.1	28.8	33.7	32.5
MT040130	35.2	30.8	33.1	33.0
MT030079	35.2	33.0	33.7	34.0
MT061169	33.2	31.7	33.2	32.7
MT061134	37.4	33.8	33.9	35.0
MT061104	35.4	33.4	34.4	34.4
MT061248	35.4	30.5	33.9	33.3
2B992316	34.4	32.4	32.0	32.9
MT050201	38.1	35.9	37.8	37.2
<b>Craft</b>	36.6	36.3	36.0	36.3
MT040216	32.0	31.5	33.2	32.2
MT050048	36.9	34.7	33.9	35.1
MT061048	31.8	30.1	34.0	32.0
<b>Haxby</b>	34.6	32.1	31.5	32.7
MT010158	34.1	32.1	31.9	32.7
MT010160	37.6	34.6	35.0	35.7
MT061201	36.7	33.4	37.0	35.7
MT061011	34.5	27.3	33.5	31.7
MT061026	34.6	27.5	31.6	31.3
MT061025	31.0	29.2	31.4	30.5
MT061246	40.6	32.1	33.9	35.5
Mean	35.7	32.1	33.4	33.7
LSD .05	4.1	2.2	3.6	
C.V. %	7.0	5.4	6.6	

**Table 16. 2008 Montana Irrigated Intrastate Barley - Head Date**  
Days from January 1

Variety	Huntley	Kalispell	Sidney	Average
<b>GOLDENEYE</b>	167.3	187.0	175.3	176.5
MT061045	172.7	190.3	179.7	180.9
MT040209	172.3	190.0	178.7	180.3
<b>Champion</b>	170.7	188.7	178.7	179.3
MT040204	173.0	192.0	180.0	181.7
MT040181	172.0	190.0	176.3	179.4
MT040013	172.7	189.7	179.0	180.5
<b>Eslick</b>	173.0	189.7	179.3	180.7
MT061042	173.0	190.3	179.0	180.8
MT061240	170.7	189.3	178.7	179.6
<b>Conrad</b>	172.0	190.3	177.0	179.8
MT061052	173.0	190.3	178.3	180.6
2B992657	172.3	191.0	179.7	181.0
<b>Tradition</b>	169.0	187.7	176.7	177.8
MT061058	170.0	189.0	176.3	178.4
MT061035	172.3	190.7	178.3	180.4
MT050049	171.0	188.0	178.3	179.1
MT030042	171.3	189.7	175.0	178.7
MT040024	169.3	188.3	176.7	178.1
MT030137	170.0	188.3	176.3	178.2
MT061051	173.3	190.7	180.0	181.3
MT050035	173.0	190.7	178.0	180.6
MT020162	171.7	189.7	178.3	179.9
MT061047	173.0	190.0	180.0	181.0
<b>Boulder</b>	172.7	190.0	178.0	180.2
<b>AQUILA</b>	164.7	187.7	172.3	174.9
MT061032	173.0	190.7	179.0	180.9
MT040226	170.0	188.0	178.7	178.9
MT050050	170.3	187.7	178.3	178.8
MT030063	171.7	190.3	179.0	180.3
MT050062	170.7	189.3	179.7	179.9
MT061160	172.0	189.7	178.7	180.1
MT061225	170.3	187.7	174.3	177.4
MT020204	169.7	189.0	176.3	178.3
MT061054	173.0	190.3	179.7	181.0
MT050030	171.7	189.0	180.0	180.2
MT020155	167.3	187.0	174.0	176.1
MT040073	171.7	189.3	178.0	179.7
MT061034	173.0	191.3	180.3	181.6
<b>Geraldine</b>	173.7	191.3	180.0	181.7
MT061207	169.7	187.3	178.3	178.5

*Continued*

Table 16 cont      Irrigated Statewide Barley – Head Date (continued)

Variety	Huntley	Kalispell	Sidney	Average
<b>Hockett</b>	170.3	188.3	175.7	178.1
MT061100	170.0	190.7	176.3	179.0
MT040130	173.7	192.0	180.0	181.9
MT030079	171.0	188.7	178.3	179.3
MT061169	172.3	190.0	179.3	180.5
MT061134	170.0	190.7	177.0	179.2
MT061104	170.7	189.7	176.3	178.9
MT061248	170.0	189.3	175.3	178.2
2B992316	171.7	189.0	178.3	179.7
MT050201	170.3	186.7	175.7	177.5
<b>Craft</b>	170.0	187.7	175.7	177.8
MT040216	171.0	189.7	177.7	179.4
MT050048	171.7	189.0	177.7	179.5
MT061048	172.0	189.7	180.0	180.6
<b>Haxby</b>	170.3	187.7	178.7	178.9
MT010158	170.3	188.3	176.0	178.2
MT010160	171.0	189.0	179.0	179.7
MT061201	169.0	188.0	175.7	177.6
MT061011	167.0	187.0	173.3	175.8
MT061026	167.0	187.3	173.0	175.8
MT061025	167.0	187.3	175.0	176.4
MT061246	170.0	188.3	175.0	177.8
Mean	171.0	189.3	177.6	179.3
LSD .05	1.1	1.6	2.2	
C.V. %	0.4	0.5	2.3	

Head Date: 180 = June 29.