



# Montana Barley Varieties 2011

Cooperating with the Montana Department of Agriculture  
10 W 15<sup>th</sup> Street, Suite 3100 · Helena, MT 59626

Released: July 8, 2011

The total acres of barley seeded in Montana in 2011 are reported at 780,000 acres, up from the 760,000 acres planted in 2010. Montana ranks first in total barley acreage in the United States, according to the USDA National Agricultural Statistics Service, Montana Field Office. Sixty-eight percent of the barley seeded in Montana in 2011 was varieties recommended by the American Malting Barley Association, Inc. (AMBA). The top variety seeded in Montana for the fourth year in a row was AC Metcalfe.

## TOP MALTING VARIETIES

**AC Metcalfe** continues to be the leading malting barley variety planted in 2011. Montana growers seeded 248,100 acres or 31.8 percent of the total acres of barley planted in Montana. AC Metcalfe is a two-rowed malting barley developed by Agriculture and Agri-Food Canada, located in Brandon, Manitoba. It is recommended by the AMBA, has an 8 percent higher yield, but matures one day later than Harrington. It is resistant to loose smut, and is moderately resistant to the spot-form of net blotch, surface-borne smuts, and common root rot. It has plump kernels and high test weight, but it is susceptible to scald and septoria.

**Hockett** is the second leading malting barley variety planted in 2011. Montana producers planted 62,800 acres, accounting for 8.0 percent of the total barley acres planted. This variety is a two-rowed dryland malting barley variety that was developed by Montana State University (MSU) in 2008. Hockett was added to the AMBA list of recommended malt barley varieties in 2010. When compared to Harrington, Hockett has a higher yield and better malt quality given dryland conditions. It is susceptible to lodging and stripe rust.

**Conrad** ranked third among malting barley varieties seeded for the 2011 crop year. A total of 43,800 acres or 5.6 percent of all barley is planted to this variety. This variety is a two-rowed malting barley variety that was developed by Busch Agricultural Resources and is recommended by AMBA. It has similar height and lodging resistance as B1202, and is two to three inches shorter than Harrington. The variety can be identified by having a white pearl, a long-haired rachilla, and a rough beard.

**Merit 57** is the fourth most common malting barley variety in 2011. A total of 33,900 acres were seeded, accounting for 4.3 percent of the total acres planted. Merit 57 came from a backcross made in 1996 in Fort Collins, Colorado. Merit 57 is a rough awned, late maturing barley, which gives it a high yield potential. Merit 57 exhibits intermediate straw strength giving it resistance towards lodging, slightly better than AC Metcalfe. Other qualities include good resistance to shattering, fair to good tolerance of straw breakage and drought.

## TOP FORAGE VARIETIES

**Haybet** has been the top forage barley variety seeded for the past twelve years. Montana farmers planted 73,800 acres, accounting for 9.5 percent of the total acres seeded in 2011. It was developed cooperatively by the Agricultural Research Service, USDA, and the Montana Agricultural Experiment Station in 1989. It is a two-rowed, hooded, white-kerneled spring hay barley. Compared to Horsford hay barley, Haybet is 3 days later in heading and similar in plant height and percent lodging. Haybet is higher in hay yield than Horsford, but they are similar in yield.

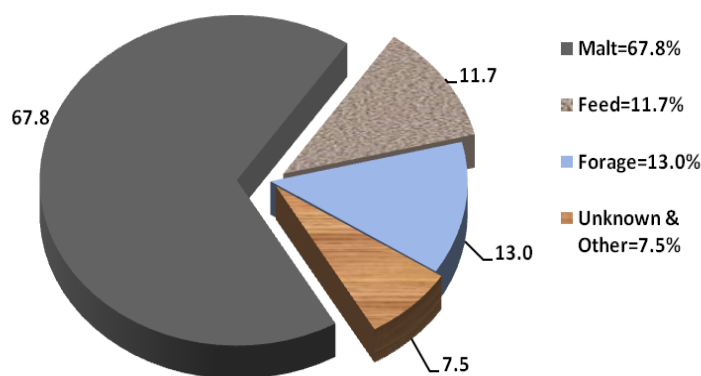
**Hays** is the second most common forage barley variety planted in 2011 with 13,100 acres or 1.7 percent of the total barley planted. It is a two-rowed hooded hay barley developed by MSU, and is a cross between Haybet and Baronesse varieties. Forage yields are similar to Haybet and higher than Westford. Hays is about three inches shorter and heads two days later than Haybet, however, the two varieties have similar test weights.

## TOP FEED VARIETIES

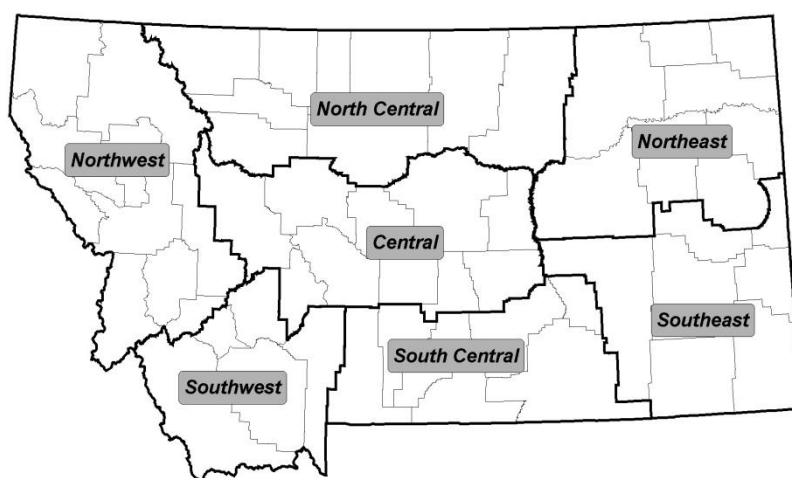
**Haxby** remained the top feed barley variety planted for feed in 2011 for the fifth year in a row. Producers planted 60,800 acres in 2011 up from 52,600 in 2010. This variety accounts for 7.8 percent of the total barley acres planted in Montana. Haxby is a two-rowed barley developed by MSU. Yields are equal to Baronesse and Eslick and are higher than Gallatin and Valier varieties. It is medium height and maturity, and has superior performance in low moisture conditions. Haxby has high test weights in both dryland and irrigated areas.

**Champion** is the second most common Montana feed barley variety in 2011. Montana growers planted 7,700 acres, accounting for 1.0 percent of the 2011 planted acres. Champion was developed by WestBred LLC, Bozeman, Montana in 1997. It is a cross between Baronesse and Camas. It is a two-row spring barley that has a semi-erect to intermediate growth habit. Champion has fair to good resistance to lodging and shattering. It also shows strengths to neck breaking and drought.

2011 Barley Varieties by Type



Montana's Agricultural Districts



Data compiled and summarized by the Montana Field Office of the National Agricultural Statistics Service, an agency of USDA, as a service provided for the Montana Wheat and Barley Committee and the American Malting Association, Inc.

Barley: 2011 Seeded Acreage and Percent of Total Seeded by Districts																
Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
AC Metcalfe*	0.7	3.5	211.3	49.6	0.4	0.5	20.5	18.6	14.3	35.7	0.9	1.3	--	--	248.1	31.8
Haybet	4.6	22.9	17.9	4.2	31.8	37.0	7.7	7.0	0.1	0.2	2.3	3.5	9.4	29.4	73.8	9.5
Hockett*	1.0	5.2	49.8	11.7	--	--	8.7	7.9	1.6	3.9	1.7	2.5	--	--	62.8	8.0
Haxby	4.2	21.1	17.9	4.2	8.8	10.2	22.1	20.1	1.1	2.7	6.1	9.3	0.6	1.8	60.8	7.8
Conrad*	--	--	26.8	6.3	4.1	4.8	6.8	6.2	0.4	1.1	5.7	8.7	--	--	43.8	5.6
Merit 57*	--	--	26.8	6.3	1.1	1.3	2.5	2.3	0.8	2.0	0.7	1.0	2.0	6.2	33.9	4.3
Moravian 69*	--	--	0.4	0.1	--	--	--	--	0.3	0.7	28.5	43.2	4.1	12.7	33.3	4.3
Harrington*	0.1	0.3	19.6	4.6	0.7	0.8	4.8	4.4	6.9	17.3	--	--	--	--	32.1	4.1
Conlon*	--	--	13.2	3.1	2.5	2.9	14.4	13.1	--	--	--	--	1.5	4.6	31.6	4.1
Tradition*	--	--	--	--	16.0	18.6	--	--	--	--	--	--	3.0	9.4	19.0	2.4
Merit*	--	--	14.1	3.3	0.1	0.1	2.3	2.1	--	--	--	--	--	--	16.5	2.1
Hays	0.9	4.7	0.9	0.2	1.5	1.7	1.7	1.5	3.5	8.8	3.4	5.1	1.2	3.6	13.1	1.7
Moravian 37*	--	--	--	--	--	--	0.7	0.6	--	--	7.9	12.0	--	--	8.6	1.1
Champion	2.0	9.8	1.7	0.4	--	--	3.0	2.7	0.7	1.7	0.3	0.5	--	--	7.7	1.0
BG 46e	--	--	6.8	1.6	--	--	--	--	--	--	--	--	--	--	6.8	0.9
Westford	0.3	1.4	0.9	0.2	--	--	0.6	0.5	0.6	1.5	1.3	1.9	2.8	8.7	6.5	0.8
Hector	0.1	0.3	1.3	0.3	2.2	2.5	1.2	1.1	--	--	1.5	2.2	--	--	6.3	0.8
Baronesse	0.8	3.8	2.1	0.5	--	--	--	--	2.3	5.7	0.3	0.4	--	--	5.5	0.7
Horsford	--	--	--	--	1.7	2.0	2.1	1.9	0.5	1.2	0.3	0.4	--	--	4.6	0.6
Gallatin	--	--	2.1	0.5	--	--	2.0	1.8	0.1	0.3	--	--	0.1	0.4	4.3	0.6
Bowman	--	--	0.4	0.1	0.8	0.9	--	--	--	--	--	--	2.5	7.9	3.7	0.5
Stockford	--	--	--	--	--	--	1.5	1.4	0.9	2.3	0.5	0.8	0.3	0.8	3.2	0.4
Lewis	--	--	--	--	2.7	3.1	--	--	--	--	--	--	--	--	2.7	0.3
Other & Unknown	5.3	27.0	12.0	2.8	11.6	13.6	7.4	6.8	5.9	14.9	4.6	7.2	4.5	14.5	51.3	6.6
<b>All Varieties</b>	<b>20.0</b>	<b>100.0</b>	<b>426.0</b>	<b>100.0</b>	<b>86.0</b>	<b>100.0</b>	<b>110.0</b>	<b>100.0</b>	<b>40.0</b>	<b>100.0</b>	<b>66.0</b>	<b>100.0</b>	<b>32.0</b>	<b>100.0</b>	<b>780.0</b>	<b>100.0</b>

\*Denotes variety recommended by the American Malting Barley Association, Inc. for planting in 2011.

Barley: Percent of Total Seeded Acreage 2005-2011 & Seeded Acreage 2010-2011										
Variety	Percent of Total Seeded Acreage							Seeded Acres (000)		
	2005	2006	2007	2008	2009	2010 1/	2011	2010 1/	2011	
AC Metcalfe*	9.2	17.6	19.6	23.5	23.0	29.1	31.8	221.1	248.1	
Haybet	17.0	14.9	11.8	8.8	9.8	14.8	9.5	112.5	73.8	
Hockett*	--	--	--	--	--	5.7	8.0	42.9	62.8	
Haxby	0.6	1.6	3.8	5.1	6.2	6.9	7.8	52.6	60.8	
Conrad*	1.4	2.9	2.2	5.4	5.9	5.3	5.6	40.6	43.8	
Merit 57*	--	--	--	--	--	--	4.3	--	33.9	
Moravian 69*	--	--	--	--	--	4.6	4.3	35.2	33.3	
Harrington*	29.4	28.7	23.0	19.1	16.2	7.1	4.1	53.9	32.1	
Conlon*	0.7	1.7	2.5	3.1	4.1	4.8	4.1	36.2	31.6	
Tradition*	1.5	3.4	2.0	6.0	4.4	2.6	2.4	19.5	19.0	
Merit*	4.8	4.4	6.3	4.9	3.5	3.1	2.1	23.4	16.5	
Hays	0.7	1.7	2.4	1.9	2.2	2.4	1.7	17.8	13.1	
Moravian 37*	3.2	2.9	3.1	3.4	5.5	0.5	1.1	4.0	8.6	
Champion	--	--	--	--	--	0.4	1.0	3.1	7.7	
BG 46e	--	--	--	--	--	--	0.9	--	6.8	
Westford	2.0	1.9	1.6	0.9	0.7	1.5	0.8	11.4	6.5	
Hector	2.2	1.4	0.8	0.4	0.8	0.7	0.8	5.6	6.3	
Baronesse	3.8	1.7	2.7	3.5	1.3	0.9	0.7	6.8	5.5	
Horsford	1.2	0.8	1.1	0.9	1.0	1.2	0.6	9.2	4.6	
Gallatin	1.7	1.1	1.6	--	1.1	0.7	0.6	5.3	4.3	
Bowman	2.6	2.2	1.9	2.1	0.6	0.3	0.5	2.4	3.7	
Stockford	--	--	--	--	0.6	0.5	0.4	4.0	3.2	
Lewis	0.9	0.8	1.0	0.9	0.4	--	0.3	--	2.7	
Boulder	--	--	--	--	0.7	0.5	--	3.7	--	
Westbred Xena	2.4	0.8	1.0	0.6	--	0.5	--	3.9	--	
Stark	0.7	0.8	--	0.9	0.9	0.5	--	3.9	--	
Other & Unknown	14.0	8.7	11.6	8.6	11.1	5.4	6.6	41.0	51.3	
<b>All Varieties</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>760.0</b>	<b>780.0</b>	

1/ Revised. \*Denotes variety recommended by the American Malting Barley Association, Inc. for planting in 2011. --Data not published for the given year.

Barley: 2010 Seeded Acreage and Percent of Total Seeded by Districts 1/																
Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
AC Metcalfe*	0.8	4.8	179.5	47.1	--	--	33.0	25.4	6.9	18.6	0.9	1.5	--	--	221.1	29.1
Haybet	1.1	7.0	21.3	5.6	47.7	52.4	15.1	11.6	0.5	1.2	3.1	4.8	23.7	59.3	112.5	14.8
Harrington*	--	--	37.0	9.7	1.3	1.4	10.0	7.7	5.6	15.2	--	--	--	--	53.9	7.1
Haxby	3.7	23.0	12.6	3.3	5.8	6.4	23.5	18.1	1.2	3.3	2.1	3.3	3.7	9.3	52.6	6.9
Hockett*	--	--	38.5	10.1	--	--	1.4	1.1	1.0	2.8	2.0	3.0	--	--	42.9	5.7
Conrad*	--	--	29.0	7.6	--	--	2.6	2.0	0.4	1.0	8.6	13.2	--	--	40.6	5.3
Conlon	--	--	11.8	3.1	1.3	1.4	22.9	17.6	--	--	0.2	0.4	--	--	36.2	4.8
Moravian 69*	--	--	0.4	0.1	--	--	0.9	0.7	5.9	15.9	28.0	43.1	--	--	35.2	4.6
Merit*	--	--	18.3	4.8	--	--	3.6	2.8	--	--	1.5	2.3	--	--	23.4	3.1
Tradition*	--	--	--	--	15.6	17.1	--	--	2.3	6.2	--	--	1.6	4.0	19.5	2.6
Hays	0.4	2.2	1.5	0.4	4.4	4.8	3.6	2.8	3.0	8.0	4.6	7.0	0.3	0.7	17.8	2.4
Westford	1.6	10.1	1.5	0.4	--	--	1.4	1.1	--	--	3.4	5.2	3.5	8.8	11.4	1.5
Horsford	0.5	3.3	--	--	3.5	3.8	2.2	1.7	1.2	3.3	1.8	2.7	--	--	9.2	1.2
Baronesse	1.0	6.0	4.2	1.1	--	--	--	--	0.9	2.5	0.7	1.0	--	--	6.8	0.9
Hector	--	--	0.4	0.1	0.6	0.7	2.0	1.5	2.2	6.0	0.4	0.5	--	--	5.6	0.7
Gallatin	--	--	3.4	0.9	--	--	0.3	0.2	0.1	0.2	1.1	1.7	0.4	1.0	5.3	0.7
Moravian 37*	--	--	--	--	--	--	--	--	0.2	0.4	2.5	3.9	1.3	3.2	4.0	0.5
Stockford	0.2	1.3	0.4	0.1	--	--	1.4	1.1	1.6	4.4	0.4	0.6	--	--	4.0	0.5
Stark	--	--	--	--	3.9	4.3	--	--	--	--	--	--	--	--	3.9	0.5
Westbred Xena	1.6	9.8	1.5	0.4	--	--	0.8	0.6	--	--	--	--	--	--	3.9	0.5
Boulder	0.3	2.1	2.7	0.7	--	--	--	--	--	--	--	--	0.7	1.8	3.7	0.5
Champion	0.2	1.3	--	--	--	--	2.7	2.1	0.2	0.6	--	--	--	--	3.1	0.4
Bowman	--	--	0.8	0.2	0.5	0.6	--	--	--	--	--	--	1.1	2.8	2.4	0.3
Other & Unknown	4.6	29.1	16.2	4.3	6.4	7.1	2.6	1.9	3.8	10.4	3.7	5.8	3.7	9.1	41.0	5.4
<b>All Varieties</b>	<b>16.0</b>	<b>100.0</b>	<b>381.0</b>	<b>100.0</b>	<b>91.0</b>	<b>100.0</b>	<b>130.0</b>	<b>100.0</b>	<b>37.0</b>	<b>100.0</b>	<b>65.0</b>	<b>100.0</b>	<b>40.0</b>	<b>100.0</b>	<b>760.0</b>	<b>100.0</b>

1/ Revised. \*Denotes variety recommended by the American Malt Barley Association, Inc. for planting in 2010.