

MONTANA BARLEY VARIETIES 2001



MONTANA
AGRICULTURAL
STATISTICS SERVICE

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Montana farmers planted 1.1 million acres of barley in 2001, down 150,000 acres from last year. Nearly 49 percent of the acres seeded to barley were malting and brewing varieties recommended by the American Malting Barley Association for use in Montana. The top variety seeded in Montana was Harrington, maintaining its position for the eighth consecutive year.

MALTING VARIETIES

Harrington remained the top variety planted in the state for the eighth year in a row. It was seeded on over 500 thousand acres or 45.5 percent of Montana's barley acreage. Harrington is the most popular variety of barley recommended by the American Malting Barley Association (AMBA) for planting in Montana. It is a two-rowed malting barley developed by the University of Saskatchewan. It is two to three days earlier than Klages and has better lodging resistance. It is susceptible to leaf diseases (net blotch, scald), stem rust, and loose smut. It has a long, rough awn and a white aleurone.

B 1202 maintained the second place malting variety position for the sixth consecutive year with 60 thousand acres or 5.5 percent of the barley planted. It is an AMBA approved, two-rowed spring barley. The spike is lax in density and nodding. The awn on the lemma is long and rough. Rachilla, rachis, and glume hairs are all long. The awns are equal to the length of the hair-covered glume. The hull is adhered and slightly to semi-wrinkled and the aleurone is colorless. B 1202 is moderately susceptible to net blotch, scald, and stripe rust.

Moravian 37 moved up to rank third among malting barley varieties with a significant increase in seeded acreage to 40.7 thousand, or 3.7 percent of the state's acreage. This variety is a two-rowed spring malt barley released by Coors Brewing Company. Moravian 37 has slightly higher yield and test weight than Galena. Height and straw strength are similar to Galena. Heading date is earlier than Galena.

B Merit rounds out the top four malting varieties again in 2001, with 12.4 thousand acres seeded statewide. B Merit is a two-rowed, mid-maturing, mid-dense head barley adapted to the InterMountain West barley producing region. Glume hair is long and confined to a band. Seed is covered, finely wrinkled with wax present and the aleurone is colorless. It is resistant to net blotch and moderately resistant to scald. B Merit is a spring barley bred and developed by Busch Agricultural Resources, Inc, and was recommended by the AMBA in 2001 for use in Montana.

FEED VARIETIES

Haybet remained in the lead position for feed barley for the second year in a row, with almost 113 thousand acres planted this year, which accounted for 10.2 percent of the total barley acres seeded in Montana for 2001. This is 31.1 thousand more acres than the 81.5 thousand acres planted in 2000. Haybet was developed cooperatively by the Agricultural Research Service, United States Department of Agriculture (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 grain yield.

Baronesse remains the second most popular feed barley in 2001. It represents 5.2 percent of the total acreage or 57.6 thousand acres for feed barley seeded in Montana for 2001. This is compared to the 77.0 thousand acres planted last year. Developed in Germany, it is a two-rowed, rough awned spring barley. Baronesse is medium-short in height and medium in maturity. It has excellent irrigated yield potential and is highly resistant to lodging and moderately resistant to net blotch.

Gallatin became the third place choice for feed barley this year with 34.2 thousand acres seeded or 3.1 percent of the barley acreage state-wide. This is compared to the 27.4 thousand acres planted in 2000. Gallatin is a white-kerneled, rough-awned feed variety released by the USDA-ARS and the Montana and Idaho agricultural experiment stations in 1986. Gallatin has mid-lax, mid-long spikes that, like Hector's, are semi-nodding before maturity and nodding at maturity.

Westford is the fourth leading feed-type variety this year with over 30 thousand acres or 2.8 percent of the state-wide barley acres seeded in 2001. This is compared to the 15,400 acres planted in 2000, which accounted for 1.2 percent of the total barley acres planted last year. Western Plant Breeders released Westford in 1988. It is a six-row hooded forage variety with standard height, stiff straw, late maturity, medium test weight, and good yield potential under intermediate to high rainfall. It is moderately tolerant to leaf rust, powdery mildew, barley yellow-dwarf, and leaf blight. Westford is susceptible to stem rust.

This Barley Variety Survey was funded by the Montana Wheat & Barley Committee and the American Malting Barley Association, Inc. Statements concerning variety characteristics are primarily derived from information published by Montana State University and the State Statistician. John Gibbon, Agricultural Statistician

Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2001

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington *	1.8	6.1	362.2	64.1	17.4	12.4	81.3	42.8	20.1	40.2	14.7	18.4	2.7	6.0	500.2	45.5
Haybet	4.9	16.4	21.5	3.8	42.4	30.3	13.9	7.3	1.8	3.6	8.6	10.7	19.5	43.3	112.6	10.2
B 1202 *	0.0	0.0	35.6	6.3	0.3	0.2	13.7	7.2	0.0	0.0	10.4	13.0	0.0	0.0	60.0	5.5
Baronesse	9.0	30.1	17.5	3.1	7.0	5.0	10.5	5.5	8.6	17.2	4.6	5.7	0.4	0.9	57.6	5.2
Moravian 37	0.0	0.0	22.6	4.0	1.8	1.3	0.0	0.0	0.0	0.0	16.3	20.4	0.0	0.0	40.7	3.7
Gallatin	1.7	5.7	1.1	0.2	2.4	1.7	13.5	7.1	5.0	10.0	7.9	9.9	2.6	5.7	34.2	3.1
Westford	3.7	12.2	2.3	0.4	4.3	3.1	8.6	4.5	8.4	16.8	2.6	3.2	0.4	0.9	30.3	2.8
Hector	0.0	0.0	1.1	0.2	8.8	6.3	13.1	6.9	0.2	0.4	1.4	1.8	4.4	9.7	29.0	2.6
Bowman	0.0	0.0	12.4	2.2	6.6	4.7	0.2	0.1	0.0	0.0	3.4	4.3	1.4	3.2	24.0	2.2
Lewis	0.8	2.5	4.0	0.7	5.5	3.9	3.0	1.6	1.1	2.2	0.0	0.0	2.1	4.7	16.5	1.5
Horsford	0.7	2.2	1.7	0.3	2.9	2.1	5.5	2.9	0.0	0.0	1.8	2.2	1.3	2.8	13.9	1.3
Piroline	0.0	0.0	6.8	1.2	0.6	0.4	3.6	1.9	0.0	0.0	1.0	1.2	0.5	1.2	12.5	1.1
B Merit *	0.0	0.0	8.5	1.5	0.0	0.0	2.1	1.1	0.8	1.6	1.0	1.2	0.0	0.0	12.4	1.1
Dolly	0.0	0.0	9.6	1.7	0.0	0.0	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	1.0
Garnet	0.0	0.0	10.2	1.8	0.0	0.0	0.0	0.0	0.8	1.6	0.0	0.0	0.0	0.0	11.0	1.0
Stark	0.0	0.0	0.0	0.0	7.8	5.6	0.0	0.0	0.0	0.0	0.3	0.4	1.3	2.8	9.4	0.9
B 2601 *	0.0	0.0	8.5	1.5	0.0	0.0	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	9.1	0.8
Foster *	0.0	0.0	9.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.8
Robust	0.0	0.0	0.0	0.0	8.3	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.8
Valier	0.2	0.8	1.1	0.2	2.9	2.1	1.9	1.0	0.0	0.0	0.3	0.4	0.0	0.1	6.4	0.6
Menuet	4.9	16.3	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.0	0.0	6.3	0.6
Other & Unknown	2.3	7.7	28.2	5.0	21.0	15.0	16.6	8.8	3.2	6.4	5.4	6.8	8.4	18.7	85.1	7.7
ALL VARIETIES	30.0	100.0	565.0	100.0	140.0	100.0	190.0	100.0	50.0	100.0	80.0	100.0	45.0	100.0	1,100.0	100.0

* American Malting Barley Association, Inc. recommended for malting and brewing for Montana.

Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2000 Revised

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington *	1.1	4.2	445.4	65.4	14.0	11.2	114.2	48.6	26.9	48.0	19.1	22.7	2.9	6.5	623.6	49.9
Haybet	2.9	11.7	20.4	3.0	29.1	23.3	8.9	3.8	1.9	3.4	3.7	4.4	14.6	33.1	81.5	6.5
Baronesse	5.5	22.0	20.4	3.0	7.3	5.8	28.2	12.0	5.3	9.5	5.8	6.9	4.5	10.2	77.0	6.2
B 1202 *	0.0	0.0	49.7	7.3	0.3	0.2	4.5	1.9	0.0	0.0	12.8	15.2	0.1	0.3	67.4	5.4
Hector	0.2	0.7	6.1	0.9	15.8	12.6	18.8	8.0	0.6	1.0	1.3	1.5	3.4	7.8	46.2	3.7
Bowman	0.0	0.0	14.3	2.1	10.8	8.6	0.7	0.3	0.0	0.0	3.2	3.8	5.9	13.3	34.9	2.8
Horsford	1.7	6.8	4.1	0.6	7.9	6.3	8.2	3.5	2.1	3.7	2.6	3.1	3.3	7.4	29.9	2.4
Morex *	0.0	0.0	21.1	3.1	0.5	0.4	3.1	1.3	4.0	7.1	0.3	0.4	0.0	0.0	29.0	2.3
Gallatin	2.5	10.1	6.1	0.9	4.5	3.6	8.0	3.4	2.5	4.5	1.6	1.9	2.2	4.9	27.4	2.2
B Merit	0.7	2.7	15.7	2.3	0.0	0.0	2.1	0.9	1.5	2.7	0.1	0.1	0.0	0.0	20.1	1.6
Lewis	0.3	1.2	4.8	0.7	6.1	4.9	7.1	3.0	0.7	1.3	0.0	0.0	0.0	0.0	19.0	1.5
Moravian 37	1.1	4.5	12.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	4.9	5.8	0.0	0.0	18.9	1.5
Moravian 22	0.0	0.0	0.7	0.1	0.4	0.3	0.0	0.0	0.8	1.4	15.5	18.5	0.0	0.0	17.4	1.4
Westford	1.6	6.3	1.4	0.2	2.0	1.6	4.7	2.0	2.2	4.0	2.2	2.6	1.3	3.0	15.4	1.2
Piroline	0.0	0.0	4.8	0.7	0.9	0.7	5.4	2.3	0.7	1.2	1.5	1.8	0.0	0.0	13.3	1.1
Galena	0.0	0.0	11.6	1.7	0.5	0.4	0.7	0.3	0.0	0.0	0.3	0.3	0.0	0.0	13.1	1.0
B 2601 *	0.0	0.0	10.9	1.6	0.0	0.0	1.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	12.8	1.0
Chinook *	0.0	0.0	5.4	0.8	1.3	1.0	4.9	2.1	0.0	0.0	0.3	0.3	0.0	0.0	11.9	1.0
Stark	0.0	0.0	0.0	0.0	10.8	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	11.1	0.9
Menuet	6.9	27.5	2.0	0.3	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	0.8
Westbred Medallion	0.0	0.0	0.0	0.0	0.0	0.0	6.6	2.8	1.9	3.4	0.3	0.4	0.0	0.0	8.8	0.7
Other & Unknown	0.5	2.3	23.2	3.4	12.3	10.1	7.0	3.0	4.9	8.8	8.5	10.3	5.5	12.8	61.9	4.9
ALL VARIETIES	25.0	100.0	681.0	100.0	125.0	100.0	235.0	100.0	56.0	100.0	84.0	100.0	44.0	100.0	1,250.0	100.0

* American Malting Barley Association, Inc. recommended for malting and brewing for Montana.

Barley: Percent of Total Seeded Acreage 1995-2001 & Seeded Acreage 2000-2001

Variety	1995	1996	1997	1998	1999	2000 1/	2001	Seeded Acres (000)	
								2000 1/	2001
Harrington *	24.9	32.6	33.4	42.1	49.6	49.9	45.5	623.6	500.2
Haybet	1.5	1.4	2.1	3.0	4.5	6.5	10.2	81.5	112.6
B 1202 *	6.1	5.4	5.1	4.7	5.2	5.4	5.5	67.4	60.0
Baronesse	11.9	12.2	15.6	12.1	7.6	6.2	5.2	77.0	57.6
Moravian 37	--	--	--	--	0.1	1.5	3.7	18.9	40.7
Gallatin	6.9	5.7	5.8	4.6	4.0	2.2	3.1	27.4	34.2
Westford	--	--	--	--	0.1	1.2	2.8	15.4	30.3
Hector	13.5	10.2	8.8	6.8	4.9	3.7	2.6	46.2	29.0
Bowman	6.9	6.0	4.7	3.1	2.7	2.8	2.2	34.9	24.0
Lewis	2.5	2.4	1.5	2.1	2.3	1.5	1.5	19.0	16.5
Horsford	1.2	2.3	1.7	2.1	1.7	2.4	1.3	29.9	13.9
Piroline	4.3	3.0	3.4	2.2	1.9	1.1	1.1	13.3	12.5
B Merit *	--	--	--	0.3	1.2	1.6	1.1	20.1	12.4
Dolly	--	--	--	--	--	--	1.0	--	11.5
Garnet	--	--	--	--	--	--	1.0	--	11.0
Stark	0.5	0.7	0.8	0.9	1.9	0.9	0.9	11.1	9.4
B 2601 *	1.8	1.3	1.8	0.8	1.0	1.0	0.8	12.8	9.1
Foster *	--	--	--	--	--	--	0.8	--	9.0
Robust	--	--	--	--	--	0.2	0.8	2.0	8.3
Valier	--	--	--	--	--	0.1	0.6	1.0	6.4
Menuet	0.9	1.1	0.7	0.9	0.6	0.8	0.6	9.4	6.3
Other & Unknown	17.1	15.7	14.6	14.3	10.7	11.0	7.7	139.1	85.1
ALL VARIETIES	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1,250.0	1,100.0

1/ Revised. * American Malting Barley Association, Inc. recommended for malting and brewing for Montana.