

North Dakota



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U.S. Department of Agriculture
National Agricultural
Statistics Service

Cooperating with

North Dakota State University
Agricultural Experiment Station
and Extension Service

1991 NORTH DAKOTA BARLEY VARIETIES

July 12, 1991

HIGHLIGHTS:

Robust remained the most popular barley variety in North Dakota with 49 percent of the acres planted in 1991. The popularity of Robust decreased slightly from 1990 but remained the top variety for the seventh consecutive year. Bowman acreage increased to nearly 16 percent and moved into second place. Morex fell to third place with 13 percent and Azure was fourth with 10 percent. Robust, Morex and Azure are recommended for malting. The top four varieties accounted for 87 percent of the total acres planted to barley in 1991.

These data are based on results of a June 1991 survey of 1,771 producers conducted by the North Dakota Agricultural Statistics Service. Funding for the survey was provided by the American Malting Barley Association, Inc. (AMBA) and the North Dakota Barley Council. The North Dakota State University Extension Service provided varietal descriptions.

North Dakota farmers planted 32 percent of the nation's 1991 barley acreage. This ranks North Dakota first in all barley acreage with 2.9 million acres planted.

MALTING TYPES:

Robust remained the number one malting variety in North Dakota by a large margin over Morex, Azure, and Excel. Robust topped second place Morex by 34 percentage points. It is the leading variety in the north central, northeast, central, east central, and the southeast districts, where 93 percent of the total Robust was planted. Robust is characterized by medium height, strong straw, medium relative maturity, moderate resistance to leaf diseases, high malt extract, high plump and low protein. All varieties in this report are susceptible to stem rust and loose smut.

Morex fell to third place overall, with 13 percent but remained the second leading malting variety planted. Morex use has decreased steadily since 1987. The northwest and north central districts accounted for 67 percent of the total Morex acreage. Morex is a medium height variety with medium relative maturity and moderate susceptibility to straw breakage and moderately resistant to leaf diseases.

Azure, with nearly 10 percent of the total barley acreage, remained in fourth place overall and third place as a popular recommended malting variety. A downward trend, that began in 1988, has ended with an increase of 1 percent this year. The central district of North Dakota showed the largest use of Azure. This variety was released by North Dakota in 1982 and it is characterized by medium height, strong straw, moderately early maturity and moderately susceptible to leaf disease.

Excel, a 1990 release of Minnesota, replaced B1602 (Busch Variety 1602) as the fourth ranked malting barley. This variety vaulted to 9.5 percent of all barley planted in 1991. Excel was planted primarily in the northeast, east central, and southeast

districts of North Dakota. Excel is characterized by moderately short plant height, very strong straw, medium maturity and is moderately susceptible to leaf disease. Excel was recently recommended as a malting barley variety by the American Malting Barley Association, Inc. (AMBA).

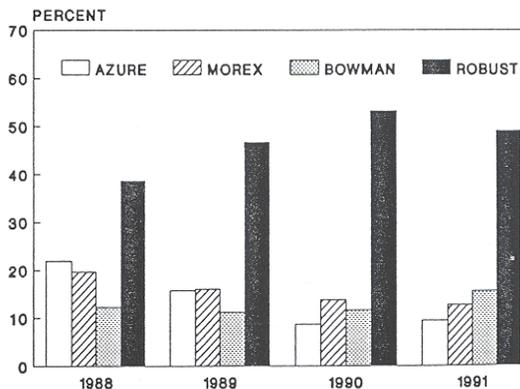
B1602 ranked fifth in 1991 barley acreage. It accounted for 2.3 percent of all barley planted after a 6.1 percentage point decrease from 1990. B1602 has not been fully tested by the American Malting Barley Association, Inc. (AMBA) for recommendation as a malting variety.

FEED TYPES:

Bowman increased by 4 percentage points and remained the number one feed barley variety in North Dakota. Bowman surpassed its previous peak of 12.3 percent in 1988 with 15.6 percent in 1991, which ranks second in all barley planted. This variety is primarily planted in the west central, southwest, and south central districts of North Dakota. These districts accounted for 67 percent of all Bowman planted in the state. Bowman is a 2-row, early maturing variety.

Hector, Gallatin, and Hazen are second, third, and fourth place feed barley varieties with 1.3, 1.2 and .5 percent of total planted acres, respectively. Hector, a 2-row 1973 Canadian release, was reported in the northwest and west central districts of North Dakota. Gallatin is a moderately late maturing variety with moderately strong straw and it was released by Montana in 1986. Hazen is a 1984 North Dakota release known for very strong straw and medium relative maturity.

BARLEY
LEADING VARIETIES PLANTED
NORTH DAKOTA, 1988 - 91



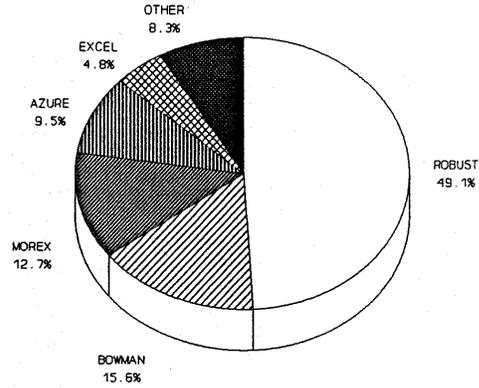
BARLEY VARIETIES

**PERCENT OF ACREAGE PLANTED BY VARIETIES,
NORTH DAKOTA, 1987-1991**

Variety	1987	1988	1989	1990	1991	
					Pct.	Acres Planted
	----- Percent -----				(000)	
* ROBUST	34.3	38.6	46.7	53.2	49.1	1423.7
BOWMAN	11.8	12.3	11.2	11.6	15.6	452.5
* MOREX	21.5	19.7	16.1	13.8	12.7	368.8
* AZURE	21.9	21.9	15.8	8.7	9.5	274.1
* EXCEL	0	0	0	0.2	4.8	138.0
B1602	0	0	6.0	8.4	2.3	65.5
HECTOR	2.6	2.0	1.0	1.0	1.3	38.9
* B1603	0	0	0	0.4	1.1	31.2
GALLATIN	0	0	0	0.4	1.2	34.9
HAZEN	3.9	1.9	1.2	0.3	0.5	13.2
* LARKER	1.1	0.8	0.7	0.5	0.4	11.9
OTHER	2.9	2.8	1.3	1.5	1/ 1.5	1/ 47.3
ALL VARIETIES	100.0	100.0	100.0	100.0	100.0	2900.0

1/ Includes Bedford, Menuet, Lewis and others each with less than 0.4 percent. * Recommended as acceptable malting varieties by the American Malting Barley Association, Inc.

**BARLEY VARIETIES
PERCENT OF TOTAL PLANTED
NORTH DAKOTA, 1991**



BARLEY VARIETIES: PERCENT AND ACREAGE PLANTED BY AGRICULTURAL STATISTICS DISTRICTS, NORTH DAKOTA, 1991

Variety	Northwest	North Central	Northeast	West Central	Central	East Central	Southwest	South Central	Southeast	State
	----- Percent Planted -----									
ROBUST	19.8	56.3	80.6	4.7	43.2	57.6	0.4	11.7	47.4	49.1
BOWMAN	24.1	0.6	0.1	53.6	6.5	0.1	85.0	67.4	20.5	15.6
MOREX	38.2	29.5	4.5	13.4	8.3	3.7	0	6.0	9.6	12.7
AZURE	5.1	8.9	3.2	6.2	30.5	17.6	2.4	4.4	8.6	9.5
EXCEL	3.3	2.3	6.2	0	4.1	8.7	0	0	7.4	4.8
B1602	0.5	0.7	2.4	0	0.9	7.5	0	0	0.9	2.3
HECTOR	6.9	0	0	6.9	0	0	3.1	0	0	1.3
GALLATIN	0.1	0	0.2	4.5	0	0.2	9.1	7.6	0.3	1.2
B1603	0	0	0.9	0	0	3.6	0	0	2.5	1.1
HAZEN	0.5	0	0.2	1.9	1.5	0.1	0.1	0.4	1.4	0.5
LARKER	0.1	0	0.5	0.9	1.1	0.3	0	0.8	0.5	0.4
OTHER	1.3	1.8	1.1	8.0	3.8	0.6	0	1.6	0.9	1.5
	----- Thousand Acres -----									
ROBUST	69.2	219.5	612.6	6.6	95.0	299.5	0.6	16.4	104.3	1423.7
BOWMAN	84.3	2.2	0.5	75.0	14.4	0.5	136.0	94.4	45.2	452.5
MOREX	133.8	115.0	34.4	18.7	18.2	19.2	0	8.4	21.1	368.8
AZURE	18.0	34.9	24.6	8.7	67.2	91.7	3.8	6.2	19.0	274.1
EXCEL	11.5	8.9	47.2	0	9.1	45.1	0	0	16.2	138.0
B1602	1.6	2.6	18.4	0	1.9	39.1	0	0	1.9	65.5
HECTOR	24.3	0	0	9.6	0	0	5.0	0	0	38.9
GALLATIN	0.5	0	1.2	6.3	0	1.1	14.5	10.6	0.7	34.9
B1603	0	0	7.1	0	0	18.7	0	0	5.4	31.2
HAZEN	1.6	0	1.4	2.7	3.4	0.3	0.1	0.6	3.1	13.2
LARKER	0.5	0	4.0	1.2	2.4	1.5	0	1.1	1.2	11.9
OTHER	4.7	6.9	8.6	11.2	8.4	3.3	0	2.3	1.9	47.3
ALL VARIETIES	350.0	390.0	760.0	140.0	220.0	520.0	160.0	140.0	220.0	2900.0