

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

1990 NORTH DAKOTA BARLEY VARIETIES

July 20, 1990

HIGHLIGHTS:

Robust remained the most popular barley variety in North Dakota with 53 percent of the acres planted in 1990. The popularity of Robust increased significantly over 1989. Morex remained second with 14 percent, down slightly from last year. Bowman, at 12 percent, is relatively unchanged from last year and is now in third place. Azure acreage fell to fourth with 9 percent. Robust, Morex, and Azure are recommended for malting. The top four varieties account for 87 percent of the total acres devoted to barley in 1990.

These data are based on results of a June 1990 survey of 1543 producers conducted by the North Dakota Agricultural Statistics Service. Supporting funds for this survey were provided by the American Malting Barley Association (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 1990 barley acreage. This ranks North Dakota first in all barley production with 2.65 million acres.

MALTING TYPE:

Robust remained the number one malting variety in North Dakota by a large margin over Morex, Azure, and Busch Variety 1602. Robust leads second place Morex by 39 percentage points, a spread that has steadily increased since 1987. It is the leading variety in the north central, northeast, east central, and the southeast districts, where 89 percent of the total Robust was planted. Robust is characterized by medium height, strong straw, medium relative maturity, resistance to stem rust, moderate resistance to leaf diseases, high malt extract, high plump, and low protein. All varieties contained in this report are susceptible to loose smut.

Morex ranked second at 13.8 percent. This was a loss of 2.3 percentage points from last year and a continued steady decline since 1987. Morex is popular in the northwest and north central districts, accounting for 69 percent of the total Morex acreage. Morex, released in 1978, is a medium height variety with medium relative maturity and moderate susceptibility to straw breakage. It is resistant to stem rust and moderately resistant to leaf diseases.

Azure, at 8.7 percent of the total barley acreage, fell to fourth place overall, but retains third place as a popular recommended malting variety. Since 1988, the popularity of Azure has decreased significantly statewide. It is preferred in the central district with 44 percent of the

district acreage. Azure, released by North Dakota in 1982, is characterized by medium height, strong straw and moderately early maturity. It is also resistant to stem rust and moderately susceptible to leaf disease.

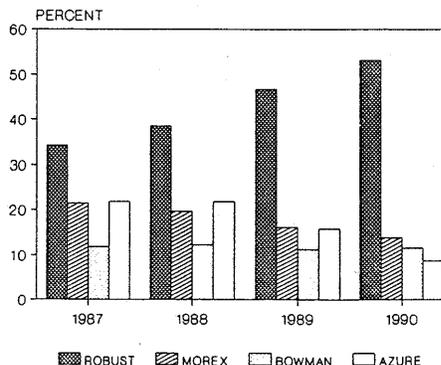
Busch Variety 1602 ranked fourth as a malting variety and retained its fifth place ranking overall with 8.4 percent. It is planted mostly in the east central district of North Dakota. This variety is a private release of Busch Agricultural Resources, Inc. and has not been fully tested by the American Malting Barley Association (AMBA) for recommendation as a malting variety.

FEED TYPE:

Bowman is the number one feed barley variety and is third place overall, up from fourth last year, with 11.6 percent of the total barley planted. It is the favored variety in the southwest, south central, and west central districts. Bowman is a two-row early maturing variety released by North Dakota in 1984.

Hector, Larker, and Gallatin are second, third, and fourth place feed varieties with 1.0, 0.5, and 0.4 percent of the planted acres, respectively. Hector, a two-row 1973 Canadian release, is used in the northwest, west central, and southwest districts while Larker is popular in the west central district. Gallatin, a two-row 1986 Montana release, is characterized by high yields, medium to late maturity and medium to strong straw.

LEADING BARLEY VARIETIES
NORTH DAKOTA, 1987 - 1990



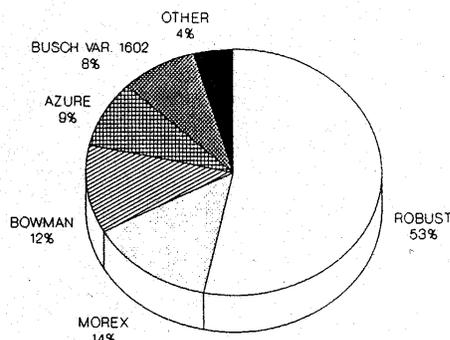
BARLEY VARIETIES

PERCENT OF ACREAGE PLANTED BY VARIETIES, 1986-90

Variety	1986	1987	1988	1989	1990	
					Pct.	Acres Planted
	----- Percent -----				(000)	
* Robust	37.4	34.3	38.6	46.7	53.2	1410.5
* Morex	16.4	21.5	19.7	16.1	13.8	364.2
Bowman	8.4	11.8	12.3	11.2	11.6	308.2
* Azure	21.1	21.9	21.9	15.8	8.7	231.1
Busch Var. 1602	-	-	-	6.0	8.4	222.3
Hector	4.2	2.6	2.0	1.0	1.0	25.9
Larker	0.7	1.1	0.8	0.7	0.5	12.0
Busch Var. 1603	-	-	-	-	0.4	10.6
Gallatin	-	-	-	-	0.4	10.3
Hazen	6.8	3.9	1.9	1.2	0.3	8.5
Other & Unknown	5.0	2.9	2.8	1.3	1/1.7	1/46.4
ALL VARIETIES	100.0	100.0	100.0	100.0	100.0	2650.0

1/ Includes Busch Variety 1601, Bumper, Excel, Glenn, Len, Nordic and others each with less than 0.3 percent. * Recommended as acceptable malting varieties by the American Malting Barley Association, Inc.

**BARLEY VARIETIES
PERCENT OF TOTAL PLANTED
NORTH DAKOTA, 1990**



BARLEY VARIETIES: PERCENT AND ACRES PLANTED BY AGRICULTURAL STATISTICS DISTRICTS, 1990

Variety	Northwest	North Central	Northeast	West Central	Central	East Central	Southwest	South Central	Southeast	State
	----- Percent Planted -----									
Robust	25.9	54.9	84.2	14.4	36.0	52.0	2.1	10.7	55.4	53.2
Morex	48.5	40.1	4.9	10.8	6.6	3.6	1.8	6.3	9.4	13.8
Bowman	16.1	0.9	1.1	59.3	3.1	-	86.0	59.6	10.3	11.6
Azure	2.2	2.1	2.4	-	43.8	16.9	0.7	5.9	9.8	8.7
Busch Var. 1602	-	0.7	6.4	-	5.9	24.1	-	-	10.5	8.4
Hector	5.1	-	-	6.8	-	-	5.0	0.9	-	1.0
Larker	1.1	-	-	4.1	1.8	-	-	-	0.9	0.5
Busch Var. 1603	-	-	0.3	-	1.0	1.2	-	-	-	0.4
Gallatin	0.2	-	0.5	1.5	-	-	3.7	0.4	-	0.4
Hazen	0.3	0.4	-	0.7	0.1	0.2	0.1	2.4	0.8	0.3
Other & Unknown	0.6	0.9	0.2	2.4	1.7	2.0	0.6	13.8	2.9	1.7
	----- 000 Acres -----									
Robust	62.1	186.5	648.0	14.4	61.2	291.1	2.5	11.8	132.9	1410.5
Morex	116.3	136.4	37.8	10.8	11.2	19.9	2.2	7.0	22.6	364.2
Bowman	38.7	3.0	8.5	59.3	5.2	-	103.2	65.5	24.8	308.2
Azure	5.2	7.3	18.5	-	74.4	94.9	0.8	6.5	23.5	231.1
Busch Var. 1602	-	2.4	49.4	-	10.1	135.2	-	-	25.2	222.3
Hector	12.2	-	-	6.8	-	-	6.0	0.9	-	25.9
Larker	2.7	-	-	4.1	3.1	-	-	-	2.1	12.0
Busch Var. 1603	-	-	2.1	-	1.8	6.7	-	-	-	10.6
Gallatin	0.4	-	3.6	1.5	-	-	4.4	0.4	-	10.3
Hazen	0.8	1.3	-	0.7	0.2	0.9	0.1	2.6	1.9	8.5
Other & Unknown	1.6	3.1	2.1	2.4	2.8	11.3	0.8	15.3	7.0	46.4
ALL VARIETIES	240.0	340.0	770.0	100.0	170.0	560.0	120.0	110.0	240.0	2650.0