

MONTANA

WHEAT VARIETIES

2002



MONTANA
AGRICULTURAL
STATISTICS SERVICE

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WINTER WHEAT

Neeley remained the leading variety of winter wheat seeded in Montana for the fifteenth consecutive year, with 263,800 acres planted. Total acres planted decreased 10 percent from last year's 293,200 acres. Neeley was developed by the Agricultural Research Service, United States Department of Agriculture (USDA) in cooperation with the Idaho Agricultural Experiment Station and released in 1980. It is a semi-dwarf variety, with intermediate maturity.

Rampart remained a close second in 2002, with 263,200 thousand acres seeded this crop season. Rampart, a hard red winter wheat, was developed by the Montana Agricultural Experiment Station and released in 1996. It is an awned, red-chaffed, solid-stemmed variety. Kernels are hard red, with a mid-sized germ. Rampart is resistant to the wheat stem sawfly and to prevalent races of stem rust. It is susceptible to stripe rust, leaf rust, dwarf smut, and the Russian wheat aphid. Rampart has excellent milling and baking qualities.

Tiber remained in third place with 163,200 acres seeded. Last year 141,600 acres were put in the ground. Tiber is a standard-height, hard red winter wheat variety released by the Montana Agricultural Experiment Station in 1987. Tiber is a bearded, brown-chaffed, stiff-strawed variety. It has a high yield potential, good shatter resistance, and good winter hardiness (similar to Redwin). Tiber's resistance to lodging and shattering is equal to Redwin, but shorter in straw height than Winalta. It also has moderate resistance to the leaf spot complex, but is susceptible to dwarf smut, stem rust, and very susceptible to stripe rust.

Rocky replaces Morgan this year as the number four variety in Montana, with 149,400 acres planted in 2002. Rocky accounted for over 10 percent of the state's seeded acreage. Released in 1978 by Nickerson American Plant Breeders, Rocky is a pure line selection from Centurk. Recommended for the same areas as Centurk, but higher yielding under most conditions. Rocky is resistant to soil born mosaic.

These top four varieties accounted for 60.0 percent of the winter wheat acreage seeded in 2002. The top four varieties for 2001 accounted for 59.4 percent of the total acreage for the state.

SPRING WHEAT

McNeal was the leading spring wheat variety planted for the fifth consecutive year, accounting for over 39 percent of the seeded acreage, with almost 1.48 million acres planted. That is a decrease of over 15 percent in McNeal acres from 2001, while spring wheat acreage is up 5.6 percent this year. McNeal was developed by the Montana Agricultural Experiment Station and released in March 1995. It is a semi-dwarf, hard red spring wheat with red chaff and tan straw. Under Montana growing conditions, McNeal is moderately resistant to lodging and to prevalent races of stem rust and wheat streak mosaic virus. It is somewhat susceptible to leaf rust and stripe rust, and is also fairly vulnerable to Russian wheat aphid and the wheat stem sawfly.

Reeder moved into second place with 396,800 acres planted this year. Last year Reeder was the fifth most popular variety with nearly 119,500 acres. Reeder was developed from a cross of a relative of 'Stoa' and germplasm from a program in Brazil. Produced by the North Dakota Agricultural Experiment Station and released in 1999, Reeder is resistant to upper mid-west stem and leaf rust.

Ernest fell to third place in ranking this year with 389,900 thousand acres planted, compared to 277,200 acres last year. Ernest was developed by the North Dakota Agricultural Experiment Station and released in 1995. It is an awned, white chaffed, standard height, solid stemmed, hard red spring wheat. It is resistant to wheat stem sawfly, leaf rust, and stem rust.

Fortuna took fourth place for the second year in a row with over 262,600 acres planted statewide. It is a beardless variety with white chaff and straw. It is a solid stem variety that is resistant to wheat stem sawfly. Fortuna is susceptible to Septoria and black chaff fungus. This spring wheat variety was developed at the North Dakota Agricultural Experiment Station with the Crops Research Division of the USDA Cooperating.

These top four varieties accounted for 67.4 percent of the spring wheat acreage seeded in 2002. The top four varieties for 2001 accounted for 72.2 percent of the seeded acreage.

This report was made possible by funds provided by the Montana Wheat & Barley Committee. This survey was conducted by the Montana Agricultural Statistics Service.

DURUM WHEAT

Kyle continued to be the leading durum variety for the sixth consecutive year. There were 216,900 acres planted in the state, accounting for 40.2 percent of the total seeded acres. Kyle was developed by the Agriculture Canada Research Station, Swift Current, Saskatchewan and released in 1984. Kyle is resistant to leaf and stem rust. It is moderately susceptible to tan spot and Septoria leaf spot and susceptible to loose smut.

Mountrail remained the second most popular variety of durum wheat in the state for the second year in a row. There were 144,000 acres planted or 26.7 percent of the state's durum wheat. Mountrail was developed from the cross of D8479 and Renville by the North Dakota Agricultural Experiment Station, and was released in 1999. The variety has a high semolina extract with strong gluten. It is resistant to both leaf and stem rusts.

These top four varieties account for 77.4 percent of total acres seeded to durum wheat. This compares with the 69.7 percent reported in 2001 for the top four varieties.

Ben took third place ranking again this year with 29,900 acres planted or 5.5 percent of the state total for durum wheat. Ben was developed in North Dakota and released in 1996. This durum wheat is medium height, medium maturity, large kernel size with high protein. Ben is resistant to leaf rust, stem rust, and leaf spot complex. It is moderately susceptible to stripe rust.

Utopia became the fourth most popular variety this year with 26,800 acres planted or 5.0 percent of the state's durum wheat. Utopia was established at the University of Arizona, Mesa Experimental Station in 1982. Utopia is a semi-dwarf spring durum with very early maturation and low susceptibility to lodging. It is black awned and has shown uniformity and yield stability within cultural regimes, high input fully irrigated, and low input with limited irrigation.

Variety	North Central		Northeast		Central		Southeast		Other Districts		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Kyle	17.0	31.5	199.2	43.3	0.4	3.9	0.3	3.3	0.0	0.0	216.9	40.2
Mountrail	0.8	1.5	142.1	30.9	1.1	12.5	0.0	0.0	0.0	0.0	144.0	26.7
Ben	2.0	3.7	25.3	5.5	0.0	0.0	2.6	28.5	0.0	0.0	29.9	5.5
Utopia	23.9	44.3	0.0	0.0	1.8	19.7	0.0	0.0	1.1	37.4	26.8	5.0
AC Avonlea	3.8	7.0	14.7	3.2	0.3	3.3	0.0	0.0	0.0	0.0	18.8	3.5
Ward	0.0	0.0	15.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	15.2	2.8
Renville	0.5	1.0	8.7	1.9	0.0	0.0	3.7	40.8	0.0	0.0	12.9	2.4
AC Morse	0.0	0.0	11.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	11.0	2.0
Munich	0.0	0.0	8.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	8.7	1.6
Vic	0.0	0.0	7.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	7.4	1.4
Sceptre	0.3	0.6	6.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	7.2	1.3
Monroe	0.0	0.0	0.9	0.2	4.7	51.7	0.0	0.0	0.0	0.0	5.6	1.0
Plaza	2.1	3.8	2.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.9
Medora	0.0	0.0	0.5	0.1	0.0	0.0	2.5	27.3	0.0	0.0	3.0	0.6
Crosby	0.0	0.0	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.3
Lebsock	0.0	0.0	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.3
Voss	0.0	0.0	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.3
Stockholm	1.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.3
Other & Unknown	2.0	3.6	11.2	2.4	0.7	8.9	4.9	0.1	1.9	62.6	20.7	3.9
All Varieties	54.0	100.0	460.0	100.0	9.0	100.0	14.0	100.0	3.0	100.0	540.0	100.0

1/ Columns may not sum to all varieties due to rounding.

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1996	1997	1998	1999	2000	2001 2/	2002	2001 2/	2002
Kyle	20.4	38.4	44.5	55.3	52.5	45.3	40.2	231.1	216.9
Mountrail	--	--	--	--	0.9	9.6	26.7	48.9	144.0
Ben	--	--	0.2	4.1	7.8	8.0	5.5	40.9	29.9
Utopia	--	--	--	1.4	5.8	6.6	5.0	33.9	26.8
AC Avonlea	--	--	--	--	1.4	3.9	3.5	19.7	18.8
Ward	5.4	1.9	1.9	4.4	2.3	3.1	2.8	15.6	15.2
Renville	9.0	8.4	6.0	4.8	5.2	6.8	2.4	34.6	12.9
AC Morse	--	--	--	--	--	--	2.0	--	11.0
Munich	--	--	--	1.0	0.9	0.5	1.6	2.4	8.7
Vic	13.9	7.4	8.6	8.1	2.6	1.6	1.4	8.2	7.4
Sceptre	3.1	5.1	6.8	3.4	2.9	1.5	1.3	7.4	7.2
Monroe	20.5	14.1	7.4	4.8	2.9	3.3	1.0	16.9	5.6
Plaza	--	--	--	--	--	--	0.9	--	4.9
Medora	2.4	8.7	6.6	3.3	3.5	0.4	0.6	2.2	3.0
Crosby	7.8	5.1	0.7	0.9	0.4	0.3	0.3	1.7	1.8
Lebsock	--	--	--	--	--	--	0.3	--	1.8
Voss	--	1.0	4.2	--	0.0	0.3	0.3	1.3	1.8
Stockholm	--	--	0.4	0.4	0.0	0.5	0.3	2.4	1.6
Other & Unknown	17.5	9.9	12.7	8.1	10.9	8.3	3.9	42.8	20.7
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	510.0	540.0

1/ Columns may not sum to all varieties due to rounding. 2/ Revised.

Winter Wheat: 2002 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)	%
Neeley	1.2	14.6	74.5	10.2	1.9	2.4	158.3	54.6	14.0	46.8	13.5	7.1	0.4	0.5	263.8	18.8
Rampart	0.2	2.1	238.0	32.6	0.0	0.0	15.7	5.4	1.8	6.1	6.7	3.5	0.8	1.1	263.2	18.8
Tiber	0.0	0.0	45.3	6.2	23.3	29.1	20.6	7.1	0.0	0.0	57.0	30.0	17.0	23.6	163.2	11.7
Rocky	0.0	0.0	119.7	16.4	2.0	2.5	25.2	8.7	0.0	0.0	2.5	1.3	0.0	0.0	149.4	10.7
Vanguard	0.0	0.0	100.7	13.8	0.0	0.0	18.6	6.4	0.0	0.0	2.3	1.2	0.0	0.0	121.6	8.7
Morgan	0.0	0.0	65.0	8.9	4.9	6.1	12.8	4.4	7.7	25.6	3.6	1.9	6.3	8.7	100.3	7.2
Redwin	0.0	0.0	11.7	1.6	16.9	21.1	0.0	0.0	1.3	4.3	40.9	21.5	7.5	10.4	78.3	5.6
McGuire	0.0	0.0	2.2	0.3	0.0	0.0	1.2	0.4	3.0	9.9	23.9	12.6	1.0	1.4	31.3	2.2
Big Horn	0.0	0.0	11.7	1.6	0.0	0.0	11.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	22.7	1.6
Nuwest *	0.0	0.0	8.0	1.1	0.0	0.0	4.1	1.4	0.0	0.0	0.0	0.0	5.5	7.7	17.6	1.3
Quantum 542	0.0	0.0	4.4	0.6	0.2	0.2	4.4	1.5	0.0	0.0	4.9	2.6	0.6	0.8	14.5	1.0
Winalta	0.0	0.0	1.5	0.2	7.1	8.9	0.0	0.0	0.0	0.0	0.0	0.0	5.8	8.0	14.4	1.0
Tomahawk	1.9	23.5	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	10.5	5.5	0.0	0.0	13.1	0.9
Prowers 99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	5.3	0.0	0.0	10.1	0.7
Norstar	0.0	0.0	5.8	0.8	4.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.7
Kestrel	0.0	0.0	2.2	0.3	6.1	7.6	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.7
NuFrontier	0.0	0.0	7.3	1.0	0.0	0.0	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	9.9	0.7
Warrior	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	1.1	5.9	8.2	8.0	0.6
Roughrider	0.0	0.0	0.0	0.0	3.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0	4.5	6.2	8.0	0.6
Judith	0.0	0.0	5.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.4	0.0	0.0	6.6	0.5
Goldenspike	0.0	0.0	5.1	0.7	0.0	0.0	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.5
Erhardt	0.0	0.0	0.0	0.0	1.5	1.9	1.2	0.4	0.0	0.0	0.0	0.0	2.8	3.9	5.5	0.4
Other & Unknown	4.8	59.8	20.4	2.8	8.4	10.5	11.6	4.0	2.2	7.3	11.4	6.0	14.0	19.5	72.8	5.1
All Varieties	8.0	100.0	730.0	100.0	80.0	100.0	290.0	100.0	30.0	100.0	190.0	100.0	72.0	100.0	1,400.0	100.0

1/ Columns may not sum to all varieties due to rounding *White wheat variety

Winter Wheat: Percent of Total Seeded Acreage 1996-2002 & Seeded Acreage 2001-2002 1/										
Variety	Percent of Total Seeded Acreage							Seeded Acres (000)		
	1996	1997	1998	1999	2000	2001 2/	2002	2001 2/	2002	
Neeley	24.6	24.3	20.0	20.8	19.2	22.6	18.8	293.3	263.8	
Rampart	--	--	1.8	9.0	13.8	15.9	18.8	206.4	263.2	
Tiber	16.5	13.4	14.2	17.3	11.3	10.9	11.7	141.6	163.2	
Rocky	14.6	19.1	13.4	8.2	6.9	8.9	10.7	115.7	149.4	
Vanguard	--	0.8	10.3	7.0	9.4	6.7	8.7	86.9	121.6	
Morgan	--	--	2.2	7.0	8.3	10.0	7.2	130.3	100.3	
Redwin	11.4	10.6	6.1	4.7	6.4	4.0	5.6	52.4	78.3	
McGuire	--	--	--	--	0.6	0.7	2.2	9.4	31.3	
Big Horn	4.0	2.3	3.5	3.6	3.3	3.0	1.6	38.9	22.7	
Nuwest *	--	0.1	--	0.5	0.4	1.7	1.3	22.6	17.6	
Quantum 542	0.6	1.2	1.0	1.4	2.2	2.0	1.0	26.6	14.5	
Winalta	3.5	1.9	2.9	1.7	1.1	2.1	1.0	27.8	14.4	
Tomahawk	--	0.1	0.2	0.6	0.9	1.2	0.9	16.0	13.1	
Prowers 99	--	--	--	--	--	--	0.7	--	10.1	
Norstar	1.8	1.8	1.7	1.5	0.8	0.6	0.7	7.4	10.0	
Kestrel	1.4	4.0	1.3	1.4	0.9	0.6	0.7	7.8	10.0	
NuFrontier	--	--	--	--	--	--	0.7	--	9.9	
Warrior	0.4	0.6	0.7	1.2	0.4	--	0.6	--	8.0	
Roughrider	2.1	2.3	1.3	1.1	1.1	0.8	0.6	10.5	8.0	
Judith	3.7	3.4	4.3	1.0	2.3	0.3	0.5	3.7	6.6	
Goldenspike	--	--	--	--	--	--	0.5	--	6.3	
Erhardt	--	--	--	0.1	0.7	--	1.1	--	15.9	
Other & Unknown	15.4	14.1	15.1	11.9	10.0	8.0	4.4	102.7	62.4	
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1,300.0	1,400.0	

1/ Columns may not sum to all varieties due to rounding. 2/ Revised. * White wheat variety.

Spring Wheat: Seeded Acreage and Percent of Total Seeded by Districts - 2002 1/

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
McNeal	5.9	23.6	559.4	33.9	712.2	46.1	105.7	43.3	11.3	28.2	34.6	45.5	47.8	28.1	1,476.9	39.4
Reeder	0.0	0.0	3.3	0.2	360.0	23.3	16.6	6.8	0.0	0.0	3.6	4.7	13.3	7.8	396.8	10.6
Ernest	0.0	0.0	316.8	19.2	55.6	3.6	8.3	3.4	0.0	0.0	1.4	1.9	7.8	4.6	389.9	10.4
Fortuna	0.0	0.0	227.7	13.8	15.5	1.0	7.6	3.1	0.0	0.0	11.8	15.5	0.0	0.0	262.6	7.0
Amidon	0.0	0.0	89.1	5.4	137.5	8.9	1.0	0.4	0.0	0.0	4.9	6.4	9.0	5.3	241.5	6.4
Conan	0.0	0.0	146.9	8.9	3.1	0.2	17.8	7.3	0.0	0.0	0.0	0.0	0.0	0.0	167.8	4.5
WestbredRambo	0.0	0.0	113.9	6.9	6.2	0.4	5.1	2.1	0.6	1.5	0.0	0.0	0.0	0.0	125.8	3.4
Scholar	0.0	0.0	42.9	2.6	15.5	1.0	8.3	3.4	0.0	0.0	0.0	0.0	0.3	0.2	67.0	1.8
Parshall	0.0	0.0	0.0	0.0	52.5	3.4	0.0	0.0	0.0	0.0	0.0	0.0	9.9	5.8	62.4	1.7
Lew	0.3	1.0	51.2	3.1	1.5	0.1	5.9	2.4	0.0	0.0	1.6	2.1	0.3	0.2	60.8	1.6
Grandin	0.0	0.0	1.7	0.1	30.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	21.3	12.5	53.9	1.4
Westbred 926	4.4	17.6	5.0	0.3	0.0	0.0	29.3	12.0	6.8	16.9	4.1	5.4	1.5	0.9	51.1	1.4
Westbred 936	8.4	33.7	5.0	0.3	0.0	0.0	3.7	1.5	14.4	35.9	1.1	1.4	6.3	3.7	38.9	1.0
Len	0.0	0.0	0.0	0.0	32.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.7	33.6	0.9
Hi-Line	0.0	0.0	13.2	0.8	4.6	0.3	0.2	0.1	1.2	3.1	0.0	0.0	2.2	1.3	21.4	0.6
Butte 86	0.0	0.0	0.0	0.0	1.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	17.7	10.4	19.2	0.5
Gunner	0.0	0.0	0.0	0.0	18.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.5	0.5
BR 2306	0.0	0.0	8.3	0.5	0.0	0.0	9.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	17.6	0.5
Olaf	0.0	0.0	0.0	0.0	13.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	2.9	1.7	16.8	0.4
Keene	0.0	0.0	0.0	0.0	7.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	5.3	3.1	13.0	0.3
Kulm	0.0	0.0	0.0	0.0	12.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	0.3
Newana	0.1	0.5	3.3	0.2	3.1	0.2	0.5	0.2	0.0	0.0	3.9	5.1	0.3	0.2	11.2	0.3
Other & Unknown	5.9	23.6	62.3	3.8	60.4	3.9	24.7	10.2	5.7	14.4	9.0	12.0	23.0	13.5	190.9	5.1
All Varieties	25.0	100.0	1,650.0	100.0	1,545.0	100.0	244.0	100.0	40.0	100.0	76.0	100.0	170.0	100.0	3,750.0	100.0

1/ Columns may not sum to all varieties due to rounding.

Spring Wheat: Percent of Total Seeded Acreage 1996-2002 & Seeded Acreage 2001-2002 1/

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1996	1997	1998	1999	2000	2001 2/	2002	2001 2/	2002
McNeal	1.3	16.2	26.5	40.4	48.8	49.2	39.4	1,746.1	1,476.9
Reeder	--	--	--	--	0.1	3.4	10.6	119.5	396.8
Ernest	0.2	3.2	7.6	9.4	10.7	10.1	10.4	357.7	389.9
Fortuna	5.9	6.3	6.5	5.0	4.9	5.1	7.0	179.6	262.6
Amidon	28.0	24.7	17.2	14.2	10.9	7.8	6.4	277.2	241.5
Conan	--	--	--	--	1.0	3.1	4.5	108.3	167.8
Westbred Rambo	9.9	10.0	7.9	6.7	5.3	3.2	3.4	114.6	125.8
Scholar	--	--	--	--	--	0.5	1.8	17.9	67.0
Parshall	--	--	--	--	--	0.5	1.7	17.0	62.4
Lew	4.4	2.5	1.8	1.3	0.9	1.2	1.6	41.4	60.8
Grandin	8.8	8.9	6.2	3.1	3.3	1.3	1.4	46.7	53.9
Westbred 926	2.5	2.7	1.8	2.5	2.2	1.8	1.4	63.5	51.1
Westbred 936	1.4	1.0	1.6	1.7	3.5	1.5	1.0	51.6	38.9
Len	3.6	3.1	1.8	1.2	1.6	1.2	0.9	43.8	33.6
Hi-Line	5.6	3.1	3.0	1.7	1.1	1.4	0.6	50.7	21.4
Butte 86	--	--	--	--	--	--	0.5	--	19.2
Gunner	--	--	--	--	--	--	0.5	--	18.5
BR 2306	--	--	--	--	--	--	0.5	--	17.6
Olaf	--	--	--	--	--	--	0.4	--	16.8
Keene	--	--	--	--	0.3	0.7	0.3	23.3	13.0
Kulm	0.5	0.4	1.9	0.8	1.1	0.8	0.3	29.2	12.4
Newana	5.0	2.4	2.0	1.2	0.9	0.6	0.3	22.6	11.2
Other & Unknown	22.9	15.5	14.2	10.8	3.4	6.6	5.1	239.3	190.9
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	3,550.0	3,750.0

1/ Columns may not sum to all varieties due to rounding. 2/ Revised.

MONTANA WHEAT VARIETIES 2001



MONTANA
AGRICULTURAL
STATISTICS SERVICE

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Released: July 17, 2001

WINTER WHEAT

Neeley remained the leading variety of winter wheat seeded in Montana for the fourteenth consecutive year, with over 273 thousand acres planted in the state. Total acres planted decreased 5 percent from last year's number of nearly 289 thousand acres. Neeley was developed by the Agricultural Research Service, United States Department of Agriculture (USDA) in cooperation with the Idaho Agricultural Experiment Station and released in 1980. It is a semi-dwarf variety, with intermediate maturity.

Rampart remained in second position in 2001, with almost 187 thousand acres seeded this crop season. Rampart, a hard red winter wheat, was developed by the Montana Agricultural Experiment Station and released in 1996. It is an awned, red-chaffed, solid-stemmed variety. Kernels are hard red, with a mid-sized germ. Rampart is resistant to the wheat stem sawfly and to prevalent races of stem rust. It is susceptible to stripe rust, leaf rust, dwarf smut, and the Russian wheat aphid. Rampart has excellent milling and baking qualities.

Tiber remained in third place with just over 132 thousand acres seeded. Last year over 169 thousand acres were put in the ground. Tiber is a standard-height, hard red winter wheat variety released by the Montana Agricultural Experiment Station in 1987. Tiber is a bearded, brown-chaffed, stiff-strawed variety. It has a high yield potential, good shatter resistance, and good winter hardiness (similar to Redwin). Tiber's resistance to lodging and shattering is equal to Redwin, but shorter in straw height than Winalta. It also has moderate resistance to the leaf spot complex, but is susceptible to dwarf smut, stem rust, and very susceptible to stripe rust.

Morgan replaces Vanguard this year as the number four variety in Montana, with over 118 thousand acres planted in 2001. This accounted for close to 10 percent of the state's seeded acreage. Morgan is a semi-dwarf hard red winter wheat developed by the Crop Development Centre (CDC) at the University of Saskatchewan. It is recommended for the high winter stress areas of Montana and North Dakota.

These top four varieties accounted for 59.2 percent of the winter wheat acreage seeded in 2001. In 2000, these same four varieties accounted for 52.6 percent of the total acreage for the state.

SPRING WHEAT

McNeal was the leading spring wheat variety planted for the fourth consecutive year, accounting for over 48 percent of the seeded acreage, with more than 1.65 million acres planted. That is a jump of 5.7 percent in McNeal acres from 2000, while spring wheat acreage is up 1.5 percent in general this year. McNeal was developed by the Montana Agricultural Experiment Station and released in March 1995. It is a semi-dwarf, hard red spring wheat with red chaff and tan straw. Under Montana growing conditions, McNeal is moderately resistant to lodging and to prevalent races of stem rust and wheat streak mosaic virus. It is somewhat susceptible to leaf rust and stripe rust, and is also fairly vulnerable to Russian wheat aphid and the wheat stem sawfly.

Ernest moved into second place with 349 thousand acres planted this year. Last year Ernest was the third most popular variety with nearly 342 thousand acres. Ernest was developed by the North Dakota Agricultural Experiment Station and released in 1995. It is an awned, white chaffed, standard height, solid stemmed, hard red spring wheat. It is resistant to wheat stem sawfly, leaf rust, and stem rust.

Amidon fell to third place in ranking this year with 255 thousand acres planted. Amidon is an awned, standard height, hard red spring wheat cooperatively developed and released by North Dakota Agricultural Experiment Station and USDA in 1988. It is resistant to leaf rust and stem rust, with a leaf spotting rating better than Stoa and Len. It has exhibited an intermediate level of stem solidness. Amidon has a higher protein than Newana, and overall milling and baking qualities are equal to or better than Newana.

Fortuna took over fourth place from Westbred Rambo this year with over 185 thousand acres planted statewide. It is a beardless variety with white chaff and straw. It is a solid stem variety that is resistant to wheat stem sawfly. Fortuna is susceptible to Septoria and black chaff fungus. This spring wheat variety was developed at the North Dakota Agricultural Experiment Station with the Crops Research Division of the USDA Cooperating.

The top four varieties accounted for nearly 71.8 percent of the spring wheat acreage seeded in 2001. These same four varieties accounted for 71.8 percent in 2000 as well.

This report was made possible by funds provided by the Montana Wheat & Barley Committee. This survey was conducted by the Montana Agricultural Statistics Service.

Peggy Stringer
State Statistician

John Gibbons
Agricultural Statistician

DURUM WHEAT

Kyle continued to be the leading durum variety for the fifth consecutive year. There were over 236 thousand acres planted in the state, accounting for 43.7 percent of the total seeded acres. Kyle was developed by the Agriculture Canada Research Station, Swift Current, Saskatchewan and released in 1984. Kyle is resistant to leaf and stem rust. It is moderately susceptible to tan spot and Septoria leaf spot and susceptible to loose smut.

Mountrail moved up from fourteenth position to become the second most popular variety of durum wheat in the state. Almost 50 thousand acres were planted or 9.2 percent of the state's durum wheat. Mountrail was developed from the cross of D8479 and Renville by the North Dakota Agricultural Experiment Station, and was released in 1999. The variety has a high semolina extract with strong gluten. It is resistant to both leaf and stem rusts.

These top four varieties account for 68.7 percent of total acres seeded to durum wheat. This is comparable to the 67.1 percent reported in 2000 for the same varieties.

Ben took third place ranking this year with over 44 thousand acres planted or 8.2 percent of the state total for durum wheat. Ben was developed in North Dakota and released in 1996. This durum wheat is medium height, medium maturity, large kernel size with high protein. Ben is resistant to leaf rust, stem rust, and leaf spot complex. It is moderately susceptible to stripe rust.

Utopia fell one place to become the fourth most popular variety of durum wheat. Nearly 41 thousand acres were planted or 7.6 percent of the state's durum wheat. Utopia was established at the University of Arizona, Mesa Experimental Station in 1982. Utopia is a semi-dwarf spring durum with very early maturation and low susceptibility to lodging. It is black awned and has shown uniformity and yield stability within cultural regimes, high input fully irrigated, and low input with limited irrigation.

Variety	North Central		Northeast		Central		Other Districts		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Kyle	11.1	17.0	224.3	51.1	0.7	3.7	0.0	0.0	236.1	43.7
Mountrail	0.0	0.0	49.6	11.3	0.0	0.0	0.0	0.0	49.6	9.2
Ben	9.2	14.1	28.1	6.4	0.0	0.0	7.1	40.6	44.4	8.2
Utopia	37.8	58.2	0.0	0.0	3.0	16.3	0.0	0.0	40.8	7.6
Renville	0.0	0.0	34.2	7.8	0.0	0.0	1.0	5.8	35.2	6.5
AC Avonlea	1.7	2.6	18.4	4.2	0.0	0.0	0.0	0.0	20.1	3.7
Monroe	0.0	0.0	17.1	3.9	0.0	0.0	0.0	0.0	17.1	3.2
Ward	0.0	0.0	15.8	3.6	0.0	0.0	0.0	0.0	15.8	2.9
Vic	0.0	0.0	8.3	1.9	0.0	0.0	0.0	0.0	8.3	1.5
Sceptre	0.5	0.7	6.6	1.5	1.2	6.5	0.0	0.0	8.3	1.5
Maier	0.0	0.0	3.5	0.8	0.0	0.0	0.9	4.9	4.4	0.8
Munich	0.0	0.0	0.9	0.2	0.0	0.0	2.0	11.7	2.9	0.5
Stockholm	2.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.5
Medora	0.0	0.0	2.2	0.5	0.0	0.0	0.0	0.0	2.2	0.4
Crosby	0.0	0.0	1.8	0.4	0.0	0.0	0.0	0.0	1.8	0.3
Voss	0.0	0.0	1.3	0.3	0.0	0.0	0.0	0.0	1.3	0.2
Wacoma	0.0	0.0	1.3	0.3	0.0	0.0	0.0	0.0	1.3	0.2
Kamut	0.0	0.0	0.9	0.2	0.0	0.0	0.0	0.0	0.9	0.2
Other & Unknown	1.9	3.1	24.7	5.6	13.6	73.5	6.5	37.0	46.7	8.9
All Varieties	65.0	100.0	439.0	100.0	18.5	100.0	17.5	100.0	540.0	100.0

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1995	1996	1997	1998	1999	2000 ¹	2001	2000 ¹	2001
Kyle	23.4	20.4	38.4	44.5	55.3	52.5	43.7	252.0	236.1
Mountrail	--	--	--	--	0.0	0.9	9.2	4.5	49.6
Ben	--	--	--	0.2	4.1	7.8	8.2	37.4	44.4
Utopia	--	--	--	--	1.4	5.8	7.6	28.0	40.8
Renville	10.0	9.0	8.4	6.0	4.8	5.2	6.5	24.8	35.2
AC Avonlea	--	--	--	--	0.0	1.4	3.7	6.9	20.1
Monroe	11.1	20.5	14.1	7.4	4.8	2.9	3.2	13.8	17.1
Ward	4.7	5.4	1.9	1.9	4.4	2.3	2.9	11.0	15.8
Vic	17.7	13.9	7.4	8.6	8.1	2.6	1.5	12.7	8.3
Sceptre	3.8	3.1	5.1	6.8	3.4	2.9	1.5	14.0	8.3
Maier	--	--	--	--	--	0.1	0.8	0.5	4.4
Munich	--	--	--	--	1.0	0.9	0.5	4.5	2.9
Stockholm	--	--	--	0.4	0.4	0.0	0.5	0.2	2.8
Medora	6.0	2.4	8.7	6.6	3.3	3.5	0.4	16.8	2.2
Crosby	3.5	7.8	5.1	0.7	0.9	0.4	0.3	2.0	1.8
Voss	--	--	1.0	4.2	--	0.0	0.2	0.0	1.3
Wacoma	--	--	--	--	0.3	0.1	0.2	0.3	1.3
Kamut	0.3	0.5	0.7	0.1	1.4	0.5	0.2	2.2	0.9
Other & Unknown	19.5	17.0	9.2	12.6	6.4	10.2	8.9	48.4	46.7
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	480.0	540.0

¹ Revised

Winter Wheat: 2001 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)	%
Neeley	0.0	0.0	46.7	8.2	22.5	25.0	140.8	49.4	14.5	60.6	48.3	30.2	0.2	0.3	273.0	22.8
Rampart	0.0	0.0	140.8	24.7	0.0	0.0	36.5	12.8	0.0	0.0	9.4	5.9	0.0	0.0	186.7	15.6
Tiber	0.0	0.0	37.6	6.6	16.2	18.0	22.8	8.0	0.7	2.8	37.4	23.4	17.1	26.4	132.1	11.0
Morgan	0.3	5.7	90.1	15.8	1.1	1.2	18.2	6.4	5.6	23.2	1.9	1.2	1.0	1.5	118.2	9.9
Rocky	0.0	0.0	89.5	15.7	2.6	2.9	13.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0	105.5	8.8
Vanguard	0.0	0.0	67.3	11.8	0.0	0.0	7.7	2.7	0.0	0.0	3.5	2.2	0.0	0.0	78.5	6.5
Redwin	0.0	0.0	13.1	2.3	4.4	4.9	0.3	0.1	1.0	4.3	19.0	11.9	10.2	15.5	48.0	4.0
Big Horn	0.0	0.0	22.8	4.0	0.0	0.0	12.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0	35.3	2.9
Winalta	0.0	0.0	2.3	0.4	15.8	17.6	0.3	0.1	0.0	0.0	0.0	0.0	11.5	17.4	29.9	2.5
Quantum 542	0.0	0.0	13.7	2.4	0.0	0.0	6.6	2.3	0.0	0.0	3.8	2.4	0.0	0.0	24.1	2.0
Nuwest*	0.0	0.0	10.3	1.8	0.0	0.0	10.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	20.6	1.7
Tomahawk	0.3	6.3	1.7	0.3	0.0	0.0	1.1	0.4	0.0	0.0	11.0	6.9	0.0	0.0	14.1	1.2
Roughrider	0.0	0.0	0.0	0.0	11.8	13.1	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.2	13.3	1.1
Hawk	0.0	0.0	2.3	0.4	0.0	0.0	0.6	0.2	0.0	0.0	6.1	3.8	0.0	0.0	9.0	0.8
Ransom	0.0	0.0	0.0	0.0	2.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	5.8	8.8	8.4	0.7
McGuire	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.7	0.3	1.2	5.0	3.1	1.1	1.7	8.4	0.7
Kestrel	0.0	0.0	2.9	0.5	3.6	4.0	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.7
Norstar	0.0	0.0	4.6	0.8	1.3	1.4	1.1	0.4	0.0	0.0	0.0	0.0	0.3	0.4	7.3	0.6
Promotory	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	5.1	3.2	0.0	0.0	5.2	0.4
Centurk	0.0	0.0	4.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.4
Judith	0.0	0.0	1.7	0.3	0.0	0.0	0.3	0.1	0.0	0.0	0.2	0.1	1.1	1.7	3.3	0.3
Stephens*	0.6	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.4	0.0	0.0	2.0	3.0	3.2	0.3
Other & Unknown	3.8	76.0	18.0	3.2	8.1	9.0	8.8	3.1	1.2	5.1	9.3	5.7	13.9	21.1	63.1	5.3
All Varieties	5.0	100.0	570.0	100.0	90.0	100.0	285.0	100.0	24.0	100.0	160.0	100.0	66.0	100.0	1,200.0	100.0

Totals may not add due to rounding. * White wheat variety

Winter Wheat: Percent of Total Seeded Acreage 1995-2001 & Seeded Acreage 2000-2001									
Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1995	1996	1997	1998	1999	2000 ¹	2001	2000 ¹	2001
Neeley	23.6	24.6	24.3	20.0	20.8	19.2	22.8	288.6	273.0
Rampart	--	--	--	1.8	9.0	13.8	15.6	206.8	186.7
Tiber	12.4	16.5	13.4	14.2	17.3	11.3	11.0	169.3	132.1
Morgan	--	--	--	2.2	7.0	8.3	9.9	124.0	118.2
Rocky	16.5	14.6	19.1	13.4	8.2	6.9	8.8	103.6	105.5
Vanguard	--	--	0.8	10.3	7.0	9.4	6.5	140.5	78.5
Redwin	8.9	11.4	10.6	6.1	4.7	6.4	4.0	95.7	48.0
Bighorn	0.7	4.0	2.3	3.5	3.6	3.3	2.9	49.8	35.3
Winalta	2.8	3.5	1.9	2.9	1.7	1.1	2.5	17.1	29.9
Quantum 542	1.8	0.6	1.2	1.0	1.4	2.2	2.0	33.1	24.1
Nuwest*	--	--	0.1	--	0.5	0.4	1.7	6.4	20.6
Tomahawk	--	--	0.1	0.2	0.6	0.9	1.2	13.9	14.1
Roughrider	1.0	2.1	2.3	1.3	1.1	1.1	1.1	16.8	13.3
Hawk	2.4	0.9	1.7	1.3	2.0	0.7	0.8	10.6	9.0
Ransom	--	--	--	--	--	0.1	0.7	1.0	8.4
McGuire	--	--	--	--	0.0	0.6	0.7	9.3	8.4
Kestrel	0.4	1.4	4.0	1.3	1.4	0.9	0.7	13.0	8.2
Norstar	4.0	1.8	1.8	1.7	1.5	0.8	0.6	11.7	7.3
Promotory	--	--	--	0.7	0.1	0.2	0.4	2.9	5.2
Centurk	3.1	3.1	1.5	0.9	0.9	0.5	0.4	7.7	4.6
Judith	8.2	3.7	3.4	4.3	1.0	2.3	0.3	34.7	3.3
Stephens*	--	--	0.5	0.5	0.0	0.1	0.3	1.7	3.2
Other & Unknown	14.2	11.8	11.0	12.4	10.2	9.5	5.3	141.8	63.1
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1,500.0	1,200.0

¹ Revised * White wheat variety

Spring Wheat: 2001 Seeded Acreage and Percent of Total Seeded Acreage by Districts

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
McNeal	13.2	30.0	670.5	43.4	679.2	56.6	148.2	54.9	12.5	32.1	52.6	50.1	74.9	38.0	1,651.1	48.6
Ernest	0.0	0.0	239.5	15.5	84.0	7.0	4.1	1.5	0.0	0.0	1.9	1.8	19.5	9.9	349.0	10.3
Amidon	0.0	0.0	66.4	4.3	148.8	12.4	4.1	1.5	0.0	0.0	2.8	2.7	32.9	16.7	255.0	7.5
Fortuna	0.0	0.0	148.3	9.6	2.4	0.2	18.9	7.0	0.8	2.1	14.9	14.2	0.0	0.0	185.3	5.5
Westbred Rambo	0.0	0.0	103.5	6.7	4.8	0.4	5.9	2.2	0.0	0.0	1.4	1.3	0.0	0.0	115.6	3.4
Conan	0.0	0.0	108.2	7.0	1.2	0.1	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	109.9	3.2
Reeder	0.0	0.0	4.6	0.3	84.0	7.0	9.5	3.5	0.0	0.0	6.8	6.5	1.0	0.5	105.9	3.1
Westbred 926	10.3	23.3	17.0	1.1	0.0	0.0	25.9	9.6	3.8	9.7	6.0	5.7	3.3	1.7	66.3	2.0
Westbred 936	7.9	17.9	21.6	1.4	0.0	0.0	6.5	2.4	13.1	33.5	0.4	0.4	2.2	1.1	51.7	1.5
Hi-Line	0.3	0.7	23.2	1.5	6.0	0.5	11.1	4.1	4.9	12.6	0.6	0.6	3.3	1.7	49.4	1.5
Lew	0.0	0.0	29.4	1.9	6.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5	5.7	2.9	41.6	1.2
Grandin	0.0	0.0	1.5	0.1	32.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	7.7	3.9	41.6	1.2
Len	0.0	0.0	0.0	0.0	32.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	6.1	3.1	38.5	1.1
Stoa	0.0	0.0	9.3	0.6	13.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	5.7	2.9	28.2	0.8
Kulm	0.0	0.0	0.0	0.0	24.0	2.0	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	24.8	0.7
Newana	0.0	0.0	7.7	0.5	8.4	0.7	3.2	1.2	0.4	1.1	1.2	1.1	0.4	0.2	21.3	0.6
Keene	0.0	0.0	0.0	0.0	16.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	3.7	1.9	20.5	0.6
Scholar	0.0	0.0	13.9	0.9	1.2	0.1	2.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8	0.5
Sonja	0.0	0.0	13.9	0.9	3.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	0.5
Pristine	0.0	0.0	13.9	0.9	0.0	0.0	2.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.5
Parshall	0.0	0.0	0.0	0.0	14.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	0.4
Trenton	0.0	0.0	0.0	0.0	8.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	4.3	2.2	12.7	0.4
Other & Unknown	12.3	28.1	52.6	3.4	28.8	2.4	26.4	9.8	3.5	8.9	15.9	15.1	26.3	13.3	165.8	4.9
All Varieties	44.0	100.0	1,545.0	100.0	1,200.0	100.0	270.0	100.0	39.0	100.0	105.0	100.0	197.0	100.0	3,400.0	100.0

Spring Wheat: Percent of Total Seeded Acreage 1995-2001 & Seeded Acreage 2000-2001

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1995	1996	1997	1998	1999	2000 ¹	2001	2000 ¹	2001
McNeal	--	1.3	16.2	26.5	40.4	48.8	48.6	1,561.8	1,651.1
Ernest	--	0.2	3.2	7.6	9.4	10.7	10.3	341.7	349.0
Amidon	29.9	28.0	24.7	17.2	14.2	10.9	7.5	347.4	255.0
Fortuna	8.3	5.9	6.3	6.5	5.0	4.9	5.5	155.5	185.3
Westbred Rambo	10.5	9.9	10.0	7.9	6.7	5.3	3.4	170.9	115.6
Conan	--	--	--	--	0.0	1.0	3.2	32.4	109.9
Reeder	--	--	--	--	--	0.1	3.1	3.4	105.9
Westbred 926	3.0	2.5	2.7	1.8	2.5	2.2	2.0	69.4	66.3
Westbred 936	0.3	1.4	1.0	1.6	1.7	3.5	1.5	113.4	51.7
Hi-Line	4.3	5.6	3.1	3.0	1.7	1.1	1.5	34.2	49.4
Lew	4.9	4.4	2.5	1.8	1.3	0.9	1.2	30.2	41.6
Grandin	7.3	8.8	8.9	6.2	3.1	3.3	1.2	107.1	41.6
Len	6.3	3.6	3.1	1.8	1.2	1.6	1.1	49.7	38.5
Stoa	3.6	6.1	4.5	3.4	1.5	0.8	0.8	24.9	28.2
Kulm	--	0.5	0.4	1.9	0.8	1.1	0.7	35.2	24.8
Newana	5.8	5.0	2.4	2.0	1.2	0.9	0.6	28.6	21.3
Keene	--	--	--	--	0.0	0.3	0.6	8.0	20.5
Scholar	--	--	--	--	--	0.0	0.5	0.8	17.8
Sonja	--	0.1	0.3	0.3	0.4	0.3	0.5	10.2	17.5
Pristine	--	--	--	--	--	0.0	0.5	0.0	16.1
Parshall	--	--	--	--	--	0.0	0.4	1.3	14.4
Trenton	--	--	--	--	0.4	0.2	0.4	6.3	12.7
Other & Unknown	15.8	16.7	10.7	10.5	8.5	2.1	4.9	217.6	165.8
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	3,350.0	3,400.0

¹ Revised

MONTANA WHEAT VARIETIES 2000



MONTANA
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STATISTICS SERVICE

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Released: July 18, 2000

WINTER WHEAT

Neeley remained the leading variety of winter wheat seeded in Montana for the thirteenth consecutive year, with over 307 thousand acres planted in the state. Total acres planted increased from last year's 218 thousand acres. Neeley was developed by the Agricultural Research Service, United States Department of Agriculture (USDA) in cooperation with the Idaho Agricultural Experiment Station and released in 1980. It is a semi-dwarf variety, with intermediate maturity.

Rampart moved into second place position with almost 195 thousand acres seeded in 2000. Rampart, a hard red winter wheat, was developed by the Montana Agricultural Experiment Station and released in 1996. It is an awned, red-chaffed, solid-stemmed variety. Kernels are hard red, with a mid-sized germ. Rampart is resistant to the wheat stem sawfly and to prevalent races of stem rust. It is susceptible to stripe rust, leaf rust, dwarf smut, and the Russian wheat aphid. Rampart has excellent milling and baking qualities.

Tiber dropped into third place position with 176 thousand acres compared with 182 thousand last year. Tiber is a standard-height, hard red winter wheat variety released by the Montana Agricultural Experiment Station in 1987. Tiber is a bearded, brown-chaffed, stiff-strawed variety. It has a high yield potential, good shatter resistance and good winter hardiness (similar to Redwin). Tiber's resistance to lodging and shattering is equal to Redwin; shorter in straw height than Winalta. It also has moderate resistance to the leaf spot complex, but is susceptible to dwarf smut, stem rust, and very susceptible to stripe rust. Tiber has average milling and baking quality.

Vanguard replaced Rocky this year with over 132 thousand acres planted in 2000. This accounted for over 8.8 percent of seeded acreage. Vanguard is a hard red winter wheat with a high protein content and good milling and baking qualities. This variety is highly resistant to sawfly infestation.

These top four varieties accounted for 54 percent of the winter wheat acreage seeded in 2000. In 1999, these same four varieties also accounted for 54 percent of the total acreage for the state.

SPRING WHEAT

McNeal was the leading spring wheat variety planted for the third consecutive year, accounting for over 46 percent of the seeded acreage with nearly 1.49 million acres planted. McNeal was developed by the Montana Agricultural Experiment Station and released in March 1995. It is a semi-dwarf, hard red spring wheat with red chaff and tan straw. Under Montana growing conditions, McNeal is moderately resistant to lodging and to prevalent races of stem rust and wheat streak mosaic virus. It is somewhat susceptible to leaf rust and stripe rust, and is also fairly vulnerable to Russian wheat aphid and the wheat stem sawfly. McNeal's milling and baking qualities are acceptable by industry.

Amidon remained in second place again this year with 323.3 thousand acres planted. Amidon is an awned, standard height, hard red spring wheat cooperatively developed and released by North Dakota Agricultural Experiment Station and USDA in 1988. It is resistant to leaf rust and stem rust, with a leaf spotting rating better than Stoa and Len. It has exhibited an intermediate level of stem solidness. Amidon has a higher protein than Newana, and overall milling and baking qualities are equal to or better than Newana.

Ernest remained in third place with 300 hundred acres less than Amidon, accounting for 323 thousand acres planted this year. Ernest was developed by the North Dakota Agricultural Experiment Station and released in 1995. It is an awned, white chaffed, standard height, solid stemmed, hard red spring wheat. It is resistant to wheat stem sawfly, leaf rust, and stem rust.

Westbred Rambo held fourth place again this year with over 163 thousand acres planted in the state. It is a medium maturity variety with a high test weight rating and good yield. It is very resistant to stem rust and sawfly infestation.

The top four varieties accounted for nearly 72 percent of the spring wheat acreage seeded in 2000. These same four varieties accounted for nearly 71 percent in 1999.

This report was made possible by funds provided by the Montana Wheat & Barley Committee. This survey was conducted by the Montana Agricultural Statistics Service.

Peggy Stringer
State Statistician

Sareca Vanecek
Student Intern

Darin Jantzi
Agricultural Statistician

DURUM WHEAT

Kyle continued to be the leading durum variety for the seventh consecutive year. There were 269 thousand acres planted in the state, accounting for 49 percent of the total seeded acres. Kyle was developed by the Agriculture Canada Research Station, Swift Current, Saskatchewan and released in 1984. Kyle is resistant to leaf and stem rust. It is moderately susceptible to tan spot and septoria leaf spot and susceptible to loose smut.

Utopia moved up from tenth position to second most popular variety of durum wheat. Over 45 thousand acres were planted or 8.3 percent of the state's durum wheat. Utopia was established at the University of Arizona, Mesa Experimental Station in 1982. Utopia is a semi-dwarf spring durum with very early maturation and low susceptibility to lodging. It is black awned and has shown uniformity and yield stability within cultural regimes, high input fully irrigated and low input with limited irrigation.

Ben moved up into third place this year from sixth position last year with 40 thousand acres planted or 7.3 percent of the state total for durum wheat. Ben was developed in North Dakota and released in 1996. This durum wheat is medium height, medium maturity, large kernel size with high protein. Ben is resistant to leaf rust, stem rust, and leaf spot complex. It is moderately susceptible to stripe rust.

Renville maintained fourth place position this year accounting for nearly 28 thousand acres planted. Renville was developed by the North Dakota Agricultural Experiment Station in cooperation with the USDA and released in 1988. This variety has shown good resistance to stem and leaf rust. For Renville, the milling characteristics are good, the gluten is strong, and spaghetti color and cooking characteristics are acceptable.

These top four varieties account for 70 percent of total acres seeded to durum wheat. This is comparable to the 66 percent reported in 1999 for the same four varieties.

Variety	North Central		Northeast		Central		Other Districts		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Kyle	10.7	12.6	258.4	60.1	0.0	0.0	0.0	0.0	269.1	48.9
Utopia	36.4	42.8	0.4	0.1	9.0	50.2	0.0	0.0	45.8	8.3
Ben	2.4	2.8	37.8	8.8	0.0	0.0	0.0	0.0	40.2	7.3
Renville	0.0	0.0	24.1	5.6	0.0	0.0	3.8	22.4	27.9	5.1
Sceptre	10.4	12.2	5.2	1.2	5.0	27.5	0.0	0.0	20.6	3.7
Medora	0.0	0.0	14.2	3.3	0.0	0.0	6.2	36.2	20.4	3.7
Monroe	0.3	0.3	13.3	3.1	0.0	0.0	1.9	11.1	15.5	2.8
Durex	13.4	15.8	0.0	0.0	0.0	0.0	0.0	0.0	13.4	2.4
Vic	0.1	0.1	13.3	3.1	0.0	0.0	0.0	0.0	13.4	2.4
Ward	0.0	0.0	11.6	2.7	0.0	0.0	0.0	0.0	11.6	2.1
AC Avonlea	0.0	0.0	7.3	1.7	0.0	0.0	0.0	0.0	7.3	1.3
Coyote	0.0	0.0	6.5	1.5	0.0	0.0	0.0	0.0	6.5	1.2
Munich	1.9	2.2	3.4	0.8	0.0	0.0	0.0	0.0	5.3	1.0
Mountrail	0.0	0.0	4.7	1.1	0.0	0.0	0.0	0.0	4.7	0.9
Kemut	2.9	3.4	0.4	0.1	0.0	0.0	0.0	0.0	3.3	0.6
Crosby	0.0	0.0	2.2	0.5	0.0	0.0	0.0	0.0	2.2	0.4
Kronos	0.0	0.0	1.3	0.3	0.0	0.0	0.0	0.0	1.3	0.2
Plenty	0.0	0.0	0.9	0.2	0.0	0.0	0.0	0.0	0.9	0.2
Other & Unknown	6.5	7.8	25.0	5.8	4.0	22.3	5.1	30.3	40.6	7.5
All Varieties	85.0	100.0	430.0	100.0	18.0	100.0	17.0	100.0	550.0	100.0

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1994	1995	1996	1997	1998	1999 ¹	2000	1999 ¹	2000
Kyle	23.6	23.4	20.4	38.4	44.5	55.3	48.9	199.2	269.1
Utopia	--	--	--	--	--	1.4	8.3	5.2	45.8
Ben	--	--	--	--	0.2	4.1	7.3	14.8	40.2
Renville	7.4	10.0	9.0	8.4	6.0	4.8	5.1	17.1	27.9
Sceptre	--	3.8	3.1	5.1	6.8	3.4	3.7	12.1	20.6
Medora	3.4	6.0	2.4	8.7	6.6	3.3	3.7	11.8	20.4
Monroe	22.5	11.1	20.5	14.1	7.4	4.8	2.8	17.1	15.5
Durex	--	--	0.8	1.0	0.1	0.2	2.4	0.8	13.4
Vic	9.3	17.7	13.9	7.4	8.6	8.1	2.4	29.2	13.4
Ward	4.6	4.7	5.4	1.9	1.9	4.4	2.1	15.9	11.6
AC Avonlea	--	--	--	--	--	0.0	1.3	0.0	7.3
Coyote	--	--	--	--	2.3	0.4	1.2	1.4	6.5
Munich	--	--	--	--	--	1.0	1.0	3.5	5.3
Mountrail	--	--	--	--	--	0.0	0.9	0.0	4.7
Kemut	1.1	0.3	0.5	0.7	--	1.4	0.6	4.9	3.3
Crosby	6.4	3.5	7.8	5.1	0.7	0.9	0.4	3.2	2.2
Kronos	--	--	--	--	--	0.0	0.2	0.0	1.3
Plenty	--	--	--	--	--	0.0	0.2	0.0	0.9
Other & Unknown	21.7	19.5	16.2	9.2	14.9	6.5	7.5	23.8	40.6
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	360.0	550.0

¹ Revised

Winter Wheat: 2000 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)	%
Neeley	0.0	0.0	59.8	8.8	14.6	12.8	184.3	48.5	18.8	62.6	26.5	14.3	3.4	3.2	307.4	20.5
Rampart	0.3	4.6	154.4	22.7	0.0	0.0	21.7	5.7	0.4	1.4	15.5	8.4	2.0	1.9	194.3	13.0
Tiber	0.3	5.2	43.5	6.4	30.0	26.3	39.9	10.5	1.8	6.0	28.1	15.2	32.3	30.8	175.9	11.7
Vanguard	0.0	0.0	93.8	13.8	0.0	0.0	20.1	5.3	0.0	0.0	18.7	10.1	0.0	0.0	132.6	8.8
Morgan	0.0	0.0	83.0	12.2	4.9	4.3	22.0	5.8	2.5	8.3	4.3	2.3	3.8	3.6	120.5	8.0
Rocky	0.0	0.0	79.6	11.7	3.2	2.8	16.0	4.2	0.0	0.0	0.2	0.1	0.0	0.0	99.0	6.6
Redwin	0.0	0.0	19.0	2.8	6.7	5.9	3.0	0.8	0.0	0.0	48.1	26.0	15.5	14.8	92.3	6.2
Bighorn	0.0	0.0	27.9	4.1	0.6	0.5	21.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0	49.8	3.3
Judith	0.1	1.6	27.9	4.1	0.0	0.0	2.7	0.7	0.0	0.0	1.7	0.9	0.1	0.1	32.5	2.2
Quantum 542	0.0	0.0	20.4	3.0	0.0	0.0	10.6	2.8	0.0	0.0	1.3	0.7	0.0	0.0	32.3	2.2
Winalta	0.0	0.0	2.0	0.3	7.5	6.6	0.0	0.0	0.1	0.2	0.0	0.0	9.7	9.2	19.3	1.3
Roughrider	0.0	0.0	0.0	0.0	15.2	13.3	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.9	17.2	1.1
Tomahawk	0.5	8.0	6.8	1.0	0.2	0.2	1.5	0.4	0.0	0.0	6.7	3.6	0.0	0.0	15.7	1.0
Kestrel	0.0	0.0	5.4	0.8	6.0	5.3	1.9	0.5	0.0	0.0	0.0	0.0	0.6	0.6	13.9	0.9
Norstar	0.0	0.0	2.7	0.4	4.9	4.3	3.4	0.9	0.0	0.0	0.0	0.0	0.6	0.6	11.6	0.8
Hawk	0.0	0.0	2.7	0.4	0.0	0.0	2.3	0.6	0.0	0.0	6.1	3.3	0.0	0.0	11.1	0.7
Erhardt	0.0	0.0	0.0	0.0	5.8	5.1	0.8	0.2	0.0	0.0	0.0	0.0	4.3	4.1	10.9	0.7
McGuire	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	7.4	4.0	2.1	2.0	9.9	0.7
Centurk	0.0	0.0	8.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	7.1	0.5
Nuwest *	0.0	0.0	2.0	0.3	0.0	0.0	4.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.4
Weston	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	2.6	1.2	1.1	6.0	0.4
Warrior	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.0	0.0	2.4	1.3	2.8	2.7	5.6	0.4
Other & Unknown	4.8	80.6	42.3	6.2	14.4	12.6	23.9	6.3	6.0	20.3	13.2	7.2	24.3	23.1	128.9	8.6
All Varieties	6.0	100.0	680.0	100.0	114.0	100.0	380.0	100.0	30.0	100.0	185.0	100.0	105.0	100.0	1,500.0	100.0

* White wheat variety

Winter Wheat: Percent of Total Seeded Acreage 1994-2000 & Seeded Acreage 1999-2000									
Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1994	1995	1996	1997	1998	1999 ¹	2000	1999 ¹	2000
Neeley	23.3	23.6	24.6	24.3	20.0	20.8	20.5	218.4	307.4
Rampart	--	--	--	--	1.8	9.0	13.0	94.9	194.3
Tiber	16.2	12.4	16.5	13.4	14.2	17.3	11.7	182.0	175.9
Vanguard	--	--	--	0.8	10.3	7.0	8.8	73.0	132.6
Morgan	--	--	--	--	2.2	7.0	8.0	73.6	120.5
Rocky	13.3	16.5	14.6	19.1	13.4	8.2	6.6	86.5	99.0
Redwin	10.0	8.9	11.4	10.6	6.1	4.7	6.2	49.4	92.3
Bighorn	1.3	0.7	4.0	2.3	3.5	3.6	3.3	37.5	49.8
Judith	10.2	8.2	3.7	3.4	4.3	1.0	2.2	10.1	32.5
Quantum 542	1.1	1.8	0.6	1.2	1.0	1.4	2.2	15.0	32.3
Winalta	4.4	2.8	3.5	1.9	2.9	1.7	1.3	17.6	19.3
Roughrider	1.8	1.0	2.1	2.3	1.3	1.1	1.1	11.9	17.2
Tomahawk	--	--	--	0.1	0.2	0.6	1.0	6.5	15.7
Kestrel	0.1	0.4	1.4	4.0	1.3	1.4	0.9	15.1	13.9
Norstar	2.0	4.0	1.8	1.8	1.7	1.5	0.8	15.6	11.6
Hawk	0.9	2.4	0.9	1.7	1.3	2.0	0.7	20.7	11.1
Erhardt	--	--	--	--	--	0.1	0.7	0.6	10.9
McGuire	--	--	--	--	--	0.0	0.7	0.4	9.9
Centurk	2.6	3.1	3.1	1.5	0.9	0.9	0.5	9.2	7.1
Nuwest *	--	--	--	0.1	--	0.5	0.4	5.3	6.2
Weston	1.1	0.6	0.6	0.5	0.6	0.6	0.4	6.3	6.0
Warrior	1.7	0.7	0.4	0.6	0.7	1.2	0.4	12.4	5.6
Other & Unknown	10.0	12.9	10.8	10.4	12.3	8.4	8.6	88.0	128.9
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1,050.0	1,500.0

¹ Revised

* White wheat variety

Spring Wheat: 2000 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)	%
McNeal	3.0	7.3	526.0	40.9	702.0	54.0	145.7	49.4	11.0	24.4	36.4	49.8	61.0	38.1	1,485.1	46.4
Amidon	0.0	0.0	59.2	4.6	232.7	17.9	11.5	3.9	0.2	0.5	4.2	5.8	15.5	9.7	323.3	10.1
Ernest	0.0	0.0	201.9	15.7	102.7	7.9	8.0	2.7	0.0	0.0	0.5	0.7	9.9	6.2	323.0	10.1
Westbred Rambo	0.0	0.0	155.6	12.1	6.5	0.5	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	163.3	5.1
Fortuna	0.0	0.0	132.5	10.3	1.3	0.1	11.8	4.0	0.0	0.0	4.8	6.6	0.3	0.2	150.7	4.7
Westbred 936	13.9	33.8	76.4	1.1	0.0	0.0	8.9	3.0	12.0	26.6	1.3	1.8	0.5	0.3	113.0	3.5
Grandin	0.0	0.0	5.1	0.4	63.7	4.9	0.9	0.3	0.0	0.0	5.3	7.3	25.6	16.0	100.6	3.1
Westbred 926	7.4	18.0	19.3	1.5	0.0	0.0	41.9	14.2	3.0	6.7	0.7	0.9	0.8	0.5	73.1	2.3
Len	0.0	0.0	0.0	0.0	39.0	3.0	0.0	0.0	0.0	0.0	0.2	0.3	6.6	4.1	45.8	1.4
Hi-Line	0.0	0.0	16.7	1.3	6.5	0.5	4.7	1.6	3.9	8.6	0.3	0.4	1.4	0.9	33.5	1.0
Kulm	0.0	0.0	1.3	0.1	28.6	2.2	0.6	0.2	0.0	0.0	0.0	0.0	1.9	1.2	32.4	1.0
Conan	0.0	0.0	28.3	2.2	0.0	0.0	0.6	0.2	0.0	0.0	0.0	0.0	2.2	1.4	31.1	1.0
Lew	0.0	0.0	19.3	1.5	3.9	0.3	0.3	0.1	0.0	0.0	5.3	7.2	0.5	0.3	29.3	0.9
Newana	0.3	0.7	12.9	1.0	6.5	0.5	2.7	0.9	3.6	8.1	1.1	1.5	1.0	0.6	28.1	0.9
Stoa	0.0	0.0	3.9	0.3	14.3	1.1	0.0	0.0	0.0	0.0	0.1	0.1	5.0	3.1	23.3	0.7
Fergus	0.0	0.0	7.7	0.6	0.0	0.0	9.1	3.1	1.5	3.4	0.0	0.0	0.0	0.0	18.3	0.6
Westbred Express	5.7	13.9	1.3	0.1	0.0	0.0	4.7	1.6	3.1	6.8	0.3	0.4	0.3	0.2	15.4	0.5
ID 377S *	0.7	1.6	9.0	0.7	0.0	0.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	11.2	0.4
Sonja	0.0	0.0	5.1	0.4	3.9	0.3	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	9.6	0.3
Butte 86	0.0	0.0	0.0	0.0	2.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	5.4	3.4	8.0	0.3
Keene	0.0	0.0	0.0	0.0	5.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	2.2	1.4	7.4	0.2
Wildcat	0.0	0.0	3.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.3	0.0	0.0	5.6	0.2
Other & Unknown	10.0	24.7	0.6	4.9	80.6	6.2	40.3	13.7	6.7	14.9	10.8	14.9	19.9	12.4	168.9	5.3
All Varieties	41.0	100.0	1,286.0	100.0	1,300.0	100.0	295.0	100.0	45.0	100.0	73.0	100.0	160.0	100.0	3,200.0	100.0

*White wheat variety

Spring Wheat: Percent of Total Seeded Acreage 1994-2000 & Seeded Acreage 1999-2000

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1994	1995	1996	1997	1998	1999 ¹	2000	1999 ¹	2000
McNeal	--	--	1.3	16.2	26.5	40.4	46.4	1,674.7	1,485.1
Amidon	27.9	29.9	28.0	24.7	17.2	14.2	10.1	589.0	323.3
Ernest	--	--	0.2	3.2	7.6	9.4	10.1	389.7	323.0
Westbred Rambo	11.9	10.5	9.9	10.0	7.9	6.7	5.1	279.2	163.3
Fortuna	8.0	8.3	5.9	6.3	6.5	5.0	4.7	208.7	150.7
Westbred 936	0.2	0.3	1.4	1.0	1.6	1.7	3.5	69.5	113.0
Grandin	8.5	7.3	8.8	8.9	6.2	3.1	3.1	128.1	100.6
Westbred 926	2.0	3.0	2.5	2.7	1.8	2.5	2.3	103.9	73.1
Len	6.3	6.3	3.6	3.1	1.8	1.2	1.4	49.2	45.8
Hi-Line	2.4	4.3	5.6	3.1	3.0	1.7	1.0	68.9	33.5
Kulm	--	--	0.5	0.4	1.9	0.8	1.0	35.2	32.4
Conan	--	--	--	--	--	0.0	1.0	0.5	31.1
Lew	7.2	4.9	4.4	2.5	1.8	1.3	0.9	56.0	29.3
Newana	6.9	5.8	5.0	2.4	2.0	1.2	0.9	48.8	28.1
Stoa	5.7	3.6	6.1	4.5	3.4	1.5	0.7	60.4	23.3
Fergus	--	0.2	0.6	0.8	0.6	0.4	0.6	16.4	18.3
Westbred Express	0.3	0.4	0.3	0.6	0.4	0.4	0.5	17.6	15.4
ID 377S *	--	--	--	--	0.1	2.2	0.4	92.1	11.2
Sonja	--	--	0.1	0.3	0.3	0.4	0.3	14.8	9.6
Butte 86	--	--	--	--	--	0.0	0.3	0.7	8.0
Keene	--	--	--	--	--	0.0	0.2	0.0	7.4
Wildcat	--	--	--	--	--	0.3	0.2	13.2	5.6
Other & Unknown	12.7	15.2	15.8	9.3	9.4	5.6	5.3	233.4	168.9
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	4,150.0	3,200.0

¹ Revised

* White wheat variety