

# WHEAT VARIETIES 1994



MONTANA  
AGRICULTURAL  
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Released: July 25, 1994

## WINTER WHEAT

**Neeley**, which accounts for about one-fourth of all the winter wheat planted in Montana, remains in the top position for the seventh consecutive year. It continues to be the top variety in the central and southwest districts. It is a semi-dwarf, intermediate maturing variety. Neeley has moderate to good milling and baking qualities, but has a 1 to 3 percent lower protein content than other recommended varieties.

**Tiber**, released in 1987 by the Montana Agricultural Experiment Station, moved up two positions to second place this year. Tiber accounted for about 16 percent of the winter wheat acreage, up 5 points from a year ago. Tiber has high yield potential, good winter hardiness and drought tolerance. It also has average milling and baking qualities.

**Rocky** dropped one spot to third place, with slightly more than 12 percent of the acreage. It is the most frequently planted variety in the North Central district. It is a superior yielding variety under most conditions. Rocky has average milling and baking qualities.

**Redwin** dropped to fourth place, down one from a year ago. It accounts for about 10 percent of the total winter wheat acreage. Redwin has good yield potential, winter hardiness, shatter and lodging resistance. Its protein level has been excellent. The milling and baking qualities of Redwin are excellent.

## SPRING WHEAT

**Amidon ND (606)**, with about 28 percent of the spring wheat acreage, holds on to first place. Its acreage increased by 19 percent over a year ago. Amidon, released in 1988 by NDSU, is especially adapted to dryland conditions where it has excellent yield potential. It has good resistance to both leaf and stem rust, has root rot tolerance and good milling qualities.

**Westbred Rambo** kept its second position, being planted on over 12 percent of the spring wheat acreage. North Central district producers seeded 89 percent of the Westbred Rambo acreage. Released by Western Plant Breeders, it is a semi-dwarf variety with sawfly and lodging resistance.

**Grandin** replaced Newana in the third position. Its acreage nearly tripled from last year and now accounts for over 8 percent of the total spring wheat acreage. Released in North Dakota in 1989, Grandin is a semi-dwarf, early maturity spring wheat that is resistant to stem and leaf rust with high test weights and average protein.

**Fortuna** moved into fourth place this year being planted on over 8 percent of the spring wheat acres. Its acreage also increased more than two-fold from a year ago. It is a relatively high yielding variety with superior milling properties, and has acceptable baking properties.

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 moved from fifth place last year to first place. Kyle acreage increased from 8,000 acres to 41.1 thousand acres and now accounts for 22.8 percent of the total durum wheat acreage. Kyle is a tall medium maturity durum that is resistant to stem rust and moderately resistant to leaf rust with average test weights.

Monroe dropped to second place with 21.6 percent of the acreage, being planted on 38.9 thousand acres. Released by North Dakota in 1985, Monroe is highly resistant to most stem rust, has a high yield potential, and has favorable milling qualities and spaghetti coloring.

Westbred Laker fell to third place with 16.4 percent of the planted acreage. Westbred Laker is resistant to stem rust, moderately resistant to leaf rust and has a high yield potential. It is a tall, semi-dwarf variety released by Western Plant Breeders in 1986.

Vic dropped from third to fourth place this year. It was planted on 16,000 acres and makes up about 9 percent of the seeded acreage. Vic is of medium height with good disease resistance to stem rust and root rot. It is moderately resistant to leaf rust, and has satisfactory milling, processing and cooking properties.

**DURUM WHEAT**  
SEEDED ACREAGE & PERCENT OF TOTAL BY DISTRICTS - 1994, MONTANA

VARIETY	NORTHEAST		OTHER DISTRICTS		STATE	
	Acres		Acres		Acres	
	(000)	PCT	(000)	PCT	(000)	PCT
Kyle	40.2	25.8	0.9	3.8	41.1	22.8
Monroe	38.9	25.0	---	---	38.9	21.6
Westbred Laker	13.5	8.7	16.0	66.7	29.5	16.4
Vic	16.0	10.3	---	---	16.0	8.9
Renville	13.0	8.3	---	---	13.0	7.2
Crosby	11.1	7.1	---	---	11.1	6.2
Ward	6.3	4.0	2.4	10.0	8.7	4.8
Lloyd	5.6	3.6	1.6	6.7	7.2	4.0
Medora	6.0	3.8	---	---	6.0	3.3
Plenty	3.0	1.9	---	---	3.0	1.7
Kemut	1.1	0.7	1.2	5.0	2.3	1.3
Cando	0.8	0.5	---	---	0.8	0.4
Rugby	0.5	0.3	---	---	0.5	0.3
Other & Unknown	---	---	1.9	7.8	1.9	1.1
STATE TOTAL	156.0	100.0	24.0	100.0	180.0	100.0

**DURUM WHEAT**  
PERCENT OF TOTAL SEEDED ACREAGE 1988-1994 & SEEDED ACREAGE 1993-94, MONTANA

VARIETY	PERCENT OF TOTAL SEEDED ACREAGE							SEEDED ACRES (000)	
	1988	1989	1990	1991	1992	1993	1994	1993 1/	1994
Kyle	0.1	0.3	---	---	2.4	7.0	22.8	8.0	41.1
Monroe	6.1	8.3	14.3	14.2	10.3	24.2	21.6	27.8	38.9
Westbred Laker	4.0	15.2	12.7	12.6	8.9	23.5	16.4	27.1	29.5
Vic	29.7	27.4	24.0	15.5	26.6	7.7	8.9	8.9	16.0
Renville	---	---	0.6	6.0	5.9	2.8	7.2	3.2	13.0
Crosby	14.7	6.3	4.3	4.3	4.8	2.8	6.2	3.2	11.1
Ward	17.0	18.5	10.2	14.1	5.8	1.3	4.8	1.5	8.7
Lloyd	6.6	4.6	1.4	5.4	0.4	---	4.0	---	7.2
Medora	8.6	7.8	19.0	14.0	20.8	18.0	3.3	20.8	6.0
Plenty	---	---	---	---	---	---	1.7	---	3.0
Kemut	---	---	---	---	---	---	1.3	---	2.3
Cando	1.8	6.6	1.8	0.2	---	---	0.4	---	0.8
Rugby	---	---	---	2.5	---	3.1	0.3	3.5	0.5
Other & Unknown	11.4	5.1	11.3	11.2	14.1	9.6	1.1	11.0	1.9
STATE TOTAL	100.0	100.1	99.6	100.0	100.0	100.0	100.0	115.0	180.0

1/ Revised

WINTER WHEAT: SEEDING ACREAGE AND PERCENT OF TOTAL BY DISTRICTS - 1994, MONTANA

VARIETY	NORTHWEST		N. CENTRAL		NORTHEAST		CENTRAL		SOUTHWEST		S. CENTRAL		SOUTHEAST		STATE	
	ACRES (000)	%														
Nealey	---	---	141.3	15.7	12.6	8.1	254.1	59.1	22.4	56.0	40.8	15.4	9.4	7.0	480.6	24.6
Tiber	---	---	170.1	18.9	9.5	6.1	42.1	9.8	4.9	12.3	59.6	22.5	17.8	13.3	304.0	15.6
Rocky	---	---	208.8	23.2	---	---	31.0	7.2	0.4	1.0	---	---	---	---	240.2	12.3
Redwin	---	---	57.0	6.4	10.5	6.8	15.5	3.6	1.4	3.5	75.8	28.6	30.6	22.8	191.4	9.9
Judith	---	---	139.5	15.5	7.8	5.0	31.4	7.3	1.6	4.0	8.5	3.2	---	---	189.8	9.7
Winata	0.4	1.5	22.5	2.5	33.0	21.3	2.6	0.6	---	---	---	---	---	---	90.3	4.6
Centurk	---	---	40.5	4.5	---	---	4.3	1.0	---	---	2.1	0.8	31.8	23.7	46.9	2.4
Roughrider	1.0	3.8	---	---	40.0	25.8	---	---	---	---	---	---	0.5	0.4	41.5	2.1
Norstar	---	---	33.3	3.7	1.4	0.9	---	---	---	---	---	---	---	---	34.7	1.8
Warrior	---	---	---	---	---	---	---	---	---	---	16.2	6.1	---	13.0	33.6	1.7
Blighorn	---	---	9.9	1.1	---	---	16.8	3.9	---	---	---	---	17.4	13.0	26.7	1.4
Western	---	---	---	---	---	---	---	---	---	---	20.7	7.8	---	---	20.7	1.1
Quantum 542	---	---	15.3	1.7	0.8	0.5	---	---	---	---	4.0	1.5	---	---	20.1	1.0
Hawk	---	---	---	---	16.3	10.5	---	---	---	---	17.0	6.4	0.9	0.7	17.9	0.9
Seward	---	---	---	---	---	---	---	---	---	---	---	---	---	---	15.3	0.8
Rose	---	---	---	---	---	---	---	---	---	---	---	---	---	---	15.1	0.8
Hill 81	---	---	---	---	---	---	11.6	2.7	---	---	---	---	---	---	11.6	0.6
Cheyenne	---	---	3.6	0.4	---	---	4.3	1.0	---	---	3.4	1.3	---	---	11.3	0.6
Chimmaron	---	---	9.9	1.1	---	---	---	---	---	---	---	---	---	---	9.9	0.5
Vona	---	---	9.0	1.0	---	---	---	---	---	---	---	---	---	---	9.0	0.5
Agassiz	---	---	---	---	8.7	5.6	---	---	---	---	---	---	---	---	8.7	0.4
Trapper	---	---	---	---	7.8	5.0	---	---	---	---	---	---	---	---	7.8	0.4
Cree	---	---	5.4	0.6	---	---	---	---	---	---	---	---	---	---	5.4	0.3
Malcom	5.4	20.6	---	---	---	---	---	---	---	---	---	---	---	---	5.4	0.3
Other & unknown	19.2	73.9	33.3	3.7	6.6	4.4	16.3	3.8	9.3	23.2	16.9	6.4	10.5	7.8	112.1	5.8
State	26.0	100.0	90.0	100.0	155.0	100.0	430.0	100.0	40.0	100.0	265.0	100.0	134.0	100.0	1950.0	100.0

WINTER WHEAT: PERCENT OF TOTAL SEEDING ACREAGE 1988-94 & SEEDING ACREAGE 1983-94, MONTANA

VARIETY	PERCENT OF TOTAL SEEDING ACREAGE							SEEDING ACRES	
	1988	1989	1990	1991	1992	1993	1994	1983-94 (000)	1994
Nealey	25.5	22.8	25.7	24.7	25.0	18.4	24.8	488.3	480.6
Tiber	0.3	1.9	9.5	11.7	13.5	10.7	15.6	284.4	304.0
Rocky	9.0	12.0	9.9	14.0	12.5	14.8	12.3	391.9	240.2
Redwin	19.6	19.8	14.5	13.0	9.9	10.8	9.8	285.0	191.4
Judith	---	---	0.1	0.8	7.0	9.8	9.7	259.4	189.8
Winata	---	---	9.7	5.8	6.1	5.8	4.6	153.7	90.3
Centurk	9.8	3.8	3.0	2.4	3.3	2.4	2.4	153.7	90.3
Roughrider	3.8	3.0	2.0	2.7	2.8	2.0	2.1	63.4	46.9
Norstar	4.1	2.0	1.9	3.6	7.6	6.4	1.8	53.6	41.5
Warrior	8.7	7.6	6.9	6.6	7.6	6.4	2.1	188.9	34.7
Blighorn	0.8	1.0	1.1	0.4	0.7	1.1	1.7	28.7	33.6
Western	0.1	0.3	0.8	0.8	0.3	1.0	1.4	25.3	28.7
Quantum 542	1.1	1.6	1.8	1.8	0.6	0.2	1.1	5.3	20.7
Hawk	---	---	---	---	---	0.3	1.0	8.0	20.1
Seward	0.6	1.2	0.7	0.9	1.0	1.0	0.9	27.1	17.9
Rose	---	---	---	---	0.2	1.3	0.8	34.5	16.3
Hill 81	---	---	---	0.1	0.1	0.1	0.8	2.5	15.1
Cheyenne	---	---	---	---	---	---	0.6	---	11.6
Chimmaron	1.7	1.4	1.8	1.2	0.8	1.0	0.6	26.9	11.3
Vona	0.2	0.5	0.1	0.6	1.0	0.6	0.5	15.9	9.9
Agassiz	0.3	0.4	0.5	0.6	0.3	0.6	0.5	16.6	9.0
Trapper	1.1	1.0	0.8	0.7	0.1	0.8	0.4	21.1	8.7
Cree	---	---	---	---	0.1	0.1	0.4	1.5	7.8
Malcom	2.9	3.1	3.9	2.0	0.8	0.6	0.3	16.8	5.4
Other & unknown	10.4	10.7	9.7	8.3	6.3	10.2	5.8	271.2	112.1
State	100.0	100.0	100.0	100.0	100.0	100.0	100.0	2650.0	1950.0

1/ Revised

SPRING WHEAT: SEEDED ACREAGE AND PERCENT OF TOTAL BY DISTRICTS—1994, MONTANA

VARIETY	NORTHWEST		N. CENTRAL		NORTHEAST		CENTRAL		SOUTHWEST		S. CENTRAL		SOUTHEAST		STATE	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Amidon (ND 606)	0.6	2.1	390.7	26.8	485.4	34.5	23.4	9.8	—	—	8.8	14.7	39.8	22.1	948.5	27.9
Westbred Rambo	—	—	370.3	25.4	39.4	2.8	7.9	3.3	—	—	0.6	1.0	—	—	418.2	12.3
Grandin	0.6	2.1	23.3	1.6	230.7	16.4	4.1	1.7	—	—	—	—	22.9	12.8	281.6	8.3
Fortuna	—	—	215.8	14.8	32.4	2.3	25.6	10.7	0.3	1.0	2.0	3.3	0.9	0.5	277.0	8.1
Lew	—	—	170.6	11.7	61.9	4.4	5.3	2.2	0.6	2.1	6.0	10.0	3.2	1.8	247.6	7.3
Newana	2.8	10.0	112.3	7.7	11.3	0.8	87.5	36.6	4.9	16.9	9.2	15.4	5.7	3.2	233.7	6.9
Len	—	—	—	—	187.1	13.3	3.3	1.4	—	—	—	—	17.0	9.5	207.4	6.1
Stoa	0.6	2.1	48.1	3.3	116.8	8.3	6.5	2.7	—	—	0.4	0.7	20.8	11.6	193.2	5.7
Gus	3.6	12.9	39.4	2.7	26.7	1.9	6.5	2.7	3.3	11.4	3.7	6.2	3.4	1.9	86.6	2.5
Olaf	—	—	1.5	0.1	45.0	3.2	1.2	0.5	—	—	—	—	27.4	15.3	75.1	2.2
Westbred 926	5.7	20.4	17.5	1.2	—	—	29.2	12.2	4.7	16.2	9.7	16.2	0.9	0.5	67.7	2.0
Celtic	—	—	1.5	0.1	38.0	2.7	—	—	—	—	—	—	—	—	48.8	1.4
Glenman	—	—	10.2	0.7	19.7	1.4	1.2	0.5	—	—	0.8	1.3	—	—	31.9	0.9
Pondera	—	—	11.7	0.8	4.2	0.3	9.3	3.9	—	—	3.2	5.3	—	—	31.6	0.9
Leader	—	—	1.5	0.1	21.1	1.5	—	—	—	—	—	—	—	—	22.6	0.7
Northrup King 751	—	—	14.6	1.0	—	—	—	—	—	—	0.8	1.3	3.9	2.2	19.3	0.6
Success	—	—	—	—	14.1	1.0	10.8	4.5	—	—	0.8	1.3	—	—	14.9	0.4
Westbred Express	—	—	—	—	—	—	—	—	0.1	0.3	—	—	—	—	10.9	0.3
Curtless	—	—	—	—	9.8	0.7	—	—	—	—	—	—	—	—	9.8	0.3
Bounty 309	—	—	—	—	8.4	0.6	—	—	—	—	—	—	—	—	8.4	0.2
Penawawa	3.1	11.1	—	—	—	—	—	—	4.3	14.8	0.8	1.3	—	—	8.2	0.2
Tioga	—	—	—	—	7.0	0.5	—	—	—	—	—	—	—	—	7.0	0.2
Westbred 906R	3.3	11.8	—	—	1.4	0.1	—	—	—	—	1.4	2.3	0.2	0.1	6.3	0.2
Westbred 936	0.1	0.4	—	—	—	—	1.9	0.8	3.5	12.1	0.2	0.3	—	—	5.7	0.2
Other & unknown	7.6	27.1	29.0	2.0	46.6	3.3	15.3	6.5	4.1	14.2	11.6	19.4	23.8	13.3	138.0	4.2
State	28.0	100.0	1458.0	100.0	1407.0	100.0	239.0	100.0	29.0	100.0	60.0	100.0	179.0	100.0	3400.0	100.0

SPRING WHEAT: PERCENT OF TOTAL SEEDED ACREAGE 1988-94 & SEEDED ACREAGE 1993-94, MONTANA

VARIETY	PERCENT OF TOTAL SEEDED ACREAGE											SEEDED ACREAGE		
	1988	1989	1990	1991	1992	1993	1994	1993	1994	1993	1994	(000)	(000)	(000)
Amidon (ND 606)	—	0.6	4.7	11.7	19.6	29.0	27.9	788.1	788.1	948.5	948.5	788.1	948.5	948.5
Westbred Rambo	6.6	9.0	15.5	13.5	16.7	15.5	12.3	425.5	425.5	418.2	418.2	425.5	418.2	418.2
Grandin	—	—	—	0.2	0.7	3.4	8.3	94.1	94.1	281.6	281.6	94.1	281.6	281.6
Fortuna	11.8	14.6	9.0	8.2	6.6	6.6	8.1	181.0	181.0	277.0	277.0	181.0	277.0	277.0
Lew	10.4	10.2	10.7	14.1	8.7	5.0	7.3	138.5	138.5	247.6	247.6	138.5	247.6	247.6
Newana	16.2	19.7	16.6	13.3	12.9	8.2	6.9	225.1	225.1	233.7	233.7	225.1	233.7	233.7
Len	15.1	15.2	12.7	11.9	8.1	6.6	6.1	181.1	181.1	207.4	207.4	181.1	207.4	207.4
Stoa	10.3	7.9	10.0	8.1	6.7	5.9	5.7	162.0	162.0	193.2	193.2	162.0	193.2	193.2
Gus	—	—	—	0.1	0.1	—	2.5	—	—	86.6	86.6	—	86.6	86.6
Olaf	5.9	5.8	4.5	3.6	2.7	2.8	2.2	78.3	78.3	75.1	75.1	78.3	75.1	75.1
Westbred 926	—	0.1	0.3	0.7	0.9	1.5	2.0	41.4	41.4	67.7	67.7	41.4	67.7	67.7
Celtic	—	—	—	0.4	0.6	0.9	1.4	23.9	23.9	48.8	48.8	23.9	48.8	48.8
Glenman	1.1	2.4	1.4	1.5	0.7	0.5	0.9	38.0	38.0	31.9	31.9	38.0	31.9	31.9
Pondera	1.8	2.4	2.2	0.8	1.5	0.4	0.7	14.5	14.5	31.6	31.6	14.5	31.6	31.6
Leader	0.9	1.1	0.7	0.4	1.1	0.4	0.7	11.8	11.8	22.6	22.6	11.8	22.6	22.6
Northrup King 751	0.9	0.5	1.3	0.8	1.1	1.1	0.6	30.9	30.9	19.3	19.3	30.9	19.3	19.3
Success	2.4	1.0	0.5	0.1	0.2	0.1	0.4	2.8	2.8	14.9	14.9	2.8	14.9	14.9
Westbred Express	—	—	—	—	—	—	0.3	—	—	10.9	10.9	—	10.9	10.9
Curtless	1.1	0.5	0.7	0.7	0.4	0.7	0.3	20.3	20.3	9.8	9.8	20.3	9.8	9.8
Bounty 309	—	0.2	0.2	0.3	0.6	—	0.2	8.4	8.4	8.4	8.4	—	8.4	8.4
Penawawa	—	—	—	—	0.1	—	0.5	12.4	12.4	7.0	7.0	—	7.0	7.0
Tioga	3.1	1.1	1.4	1.1	1.3	1.4	0.2	37.2	37.2	6.3	6.3	—	6.3	6.3
Westbred 906R	0.2	0.2	0.4	0.3	0.2	0.3	0.2	8.3	8.3	5.7	5.7	—	5.7	5.7
Westbred 936	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other & unknown	11.8	7.5	7.2	8.2	8.5	8.2	4.2	224.8	224.8	138.0	138.0	224.8	138.0	138.0
State	100.0	100.0	100.0	100.0	100.0	100.0	100.0	2750.0	2750.0	3400.0	3400.0	2750.0	3400.0	3400.0

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# WHEAT VARIETIES 1993

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Neeley remains in top position for the sixth consecutive year. It is a semi-dwarf, intermediate maturing variety, first released in 1980. Neeley quickly became a leading variety. For the five years prior to 1993 it has accounted for about one-quarter of the total winter wheat planted acres. In 1993 Neeley accounted for nearly 19 percent of the state's winter wheat acreage. Neeley is the top variety in central and southwest Montana. Neeley has moderate to good milling and baking qualities, but has a 1 to 3 percent lower protein content than other recommended varieties.

Rocky once again claims second place, with more than 14 percent of the states seeded acres. Rocky, grown mainly in north central Montana, increased 17 percent over last year's acreage. It is a high yielding variety released by North American Plant Breeders with good stem and leaf rust resistance and acceptable milling and baking qualities.

Redwin acreage increased 10 percent and moved back into third place after falling into fourth place last year. This prominent variety had been declining since 1984. Redwin is the leading variety in south central and southeast Montana. Redwin was released by Montana State University with good yield potential, winter hardiness, shatter and lodging resistance and a high protein content.

Tiber plantings declined 20 percent and moved down to fourth place. Tiber accounts for 10.6 percent of total winter wheat acreage. Tiber was released by M.S.U. in 1987 and has increased in percent of total winter wheat acres each year, until this year. Tiber has high yield potential, good winter hardiness and drought tolerance. Tiber also has good milling and baking qualities.

## HARD SPRING WHEAT

Amidon ND(606) remained in the number 1 position as planted acreage increased 53 percent, and represented 30 percent of the spring wheat planted acreage. It was released in 1988 by NDSU. Amidon is especially adapted to dryland conditions where it has excellent yield potential. It has good resistance to both leaf and stem rust, has root rot tolerance and good milling qualities.

WestBred Rambo maintained its second position, in spite of an 11 percent drop in planted acreage. It is the top variety in north central Montana where 89 percent of total Rambo acreage was planted this year. Rambo contributed 15 percent to the total 1993 planted spring wheat acres. Rambo climbed from less than 1 percent in 1987 to become the second most important variety in the state in 1992. It was released by the Western Plant Breeders, with sawfly, and lodging resistance.

Newana, remained in third place, in spite of a 40 percent drop in planted acreage. Newana is a popular spring wheat variety that is grown in every district of the state. It is the top variety in the central section of Montana this year with 32 percent of that district's planted acres. Newana was released by M.S.U., and is a semi-dwarf variety with good milling quality and yield potential.

Len is the fourth place variety again this year, although planted acreage dropped 14 percent. The northeastern area of the state has a large majority of the Len. It is a semi-dwarf variety from North Dakota with excellent milling and baking quality.

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

Monroe moved into first place with 28,300 acres seeded in 1993 compared with 16,400 acres in 1992. Monroe accounted for 24.6 percent of the durum planted. It was released by North Dakota in 1985. Monroe is highly resistant to most stem rust, has a high yield potential, and has favorable milling qualities and spaghetti coloring.

WestBred Laker moved into second position among durum wheat varieties, accounting for 27,500 acres and 23.9 percent of all durum seeded. It is a tall semi-dwarf released by the Western Plant Breeders in 1986. WestBred Laker is resistant to stem rust, moderately resistant to leaf rust and has a high yield potential.

Medora moved down to third place this season with 18.3 percent of the planted acreage. It has been on the scene for seven years and has been one of the top five durum wheat varieties since 1988. Medora is a strong-strawed, disease resistant variety with high yield potential.

Vic fell from its previous number one position to take up the number 4 spot in 1993. Vic was seeded on 7.8 percent of durum acreage in sharp contrast with the 26.6 percent in 1992. Vic is of medium height with good disease resistance to stem rust and root rot. It is moderately resistant to leaf rust, and has satisfactory milling, processing and cooking properties.

## DURUM WHEAT VARIETIES

### SEEDED ACREAGE & PERCENT OF TOTAL BY DISTRICTS - 1993 PRELIMINARY

VARIETY	NORTHEAST		OTHER DISTRICTS		STATE	
	Acres		Acres		Acres	
	(000)	PCT	(000)	PCT	(000)	PCT
Monroe	28.3	26.0	0.0	0.0	28.3	24.6
Westbred Laker	27.5	25.3	0.0	0.0	27.5	23.9
Medora	21.1	19.4	0.0	0.0	21.1	18.3
Vic	9.0	8.3	0.0	0.0	9.0	7.8
Kyle	8.2	7.5	0.0	0.0	8.2	7.1
Rugby	3.6	3.3	0.0	0.0	3.6	3.1
Renville	3.3	3.0	0.0	0.0	3.3	2.9
Crosby	3.3	3.0	0.0	0.0	3.2	2.8
Ward	1.5	1.4	0.0	0.0	1.5	1.3
Other & Unknown	3.2	2.8	6.2	100.0	9.3	8.1
STATE TOTAL	108.8	100.0	6.2	100.0	115.0	100.0

## DURUM WHEAT

### PERCENT OF TOTAL SEEDED ACREAGE 1988-1993 & SEEDED ACREAGE 1992-93

VARIETY	PERCENT OF TOTAL SEEDED ACREAGE						SEEDED ACRES (000)	
	1988	1989	1990	1991	1992	1993	1992 1/	1993 2/
Monroe	6.1	8.3	14.3	14.2	10.3	24.6	16.4	28.3
WestBred Laker	4.0	15.2	12.7	12.6	8.9	23.9	14.2	27.5
Medora	8.6	7.8	19.0	14.0	20.8	18.3	33.3	21.1
Vic	29.7	27.4	24.0	15.5	26.6	7.8	42.6	9.0
Kyle	0.1	0.3	--	--	2.4	7.1	3.8	8.2
Rugby	--	--	--	2.5	--	3.1	--	3.6
Renville	--	--	0.6	6.0	5.9	2.9	9.5	3.3
Crosby	14.7	6.3	4.3	4.3	4.8	2.8	7.6	3.2
Ward	17.0	18.5	10.2	14.1	5.8	1.3	9.3	1.5
Wakooma	0.7	1.3	4.0	0.2	1.3	--	2.1	--
Wascana	1.7	--	1.0	--	1.6	--	2.5	--
Lloyd	6.6	4.6	1.4	5.4	0.4	--	0.6	--
Other & Unknown	10.8	10.3	8.5	11.2	11.2	8.2	18.1	9.3
STATE TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	160.0	115.0

1/ Revised 2/ Preliminary

WINTER WHEAT VARIETIES: SEEDED ACREAGE AND PERCENT OF TOTAL BY DISTRICTS -- 1993 PRELIMINARY

VARIETY	NORTHWEST		N. CENTRAL		NORTHEAST		CENTRAL		SOUTHWEST		S. CENTRAL		SOUTHEAST		STATE	
	ACRES (000)	%	ACRES (000)	%	ACRES (000)	%	ACRES (000)	%	ACRES (000)	%	ACRES (000)	%	ACRES (000)	%	ACRES (000)	%
Neeley	1.4	4.1	156.2	12.3	30.2	10.6	265.4	49.7	13.9	31.7	25.4	8.7	5.9	3.1	498.4	18.8
Rocky	---	---	325.1	25.6	2.6	0.9	48.1	9.0	---	---	3.2	1.1	2.1	1.1	381.1	14.4
Redwin	0.9	2.6	105.4	8.3	23.1	8.1	24.0	4.5	1.6	3.6	73.9	25.3	55.7	29.3	284.6	10.7
Tiber	0.3	0.8	142.2	11.2	13.1	4.6	41.7	7.8	1.8	4.2	56.9	19.5	25.8	13.6	281.8	10.6
Judith	---	---	166.4	13.1	2.0	0.7	72.6	13.6	1.8	4.2	7.6	2.6	6.5	3.4	256.9	9.7
Norstar	---	---	121.9	9.6	35.6	12.5	2.7	0.5	---	---	---	---	4.6	2.4	164.8	6.2
Winarka	---	---	76.2	6.0	60.1	21.1	0.5	0.1	---	---	---	---	15.6	8.2	152.4	5.8
Centurk	---	---	54.6	4.3	---	---	3.2	0.6	---	---	0.6	0.2	3.0	1.6	61.4	2.3
Roughrider	---	---	---	---	42.5	14.9	---	---	---	---	---	---	---	---	55.0	2.1
Siouxland	---	---	---	---	---	---	16.0	3.0	---	---	21.6	7.4	---	---	37.6	1.4
Seward	0.3	0.8	---	---	34.8	12.2	---	---	---	0.7	---	---	---	---	35.4	1.4
Warrior	---	---	2.5	0.2	---	---	---	---	---	---	---	---	15.6	8.2	29.2	1.1
Hawk	---	---	5.1	0.4	---	---	3.2	0.6	---	---	11.1	3.8	---	---	27.0	1.0
Cheyenne	0.4	1.1	12.7	1.0	2.6	0.9	---	---	---	---	18.7	6.4	---	---	26.9	1.0
Bighorn	---	---	11.4	0.9	7.1	2.5	4.8	0.9	---	---	3.8	1.3	7.4	3.9	25.2	1.0
Agassiz	---	---	---	---	13.4	4.7	---	---	---	---	---	---	8.4	4.4	21.8	0.8
Cree	---	---	10.2	0.8	---	---	5.9	1.1	0.7	1.7	---	---	---	---	16.8	0.6
Stephens	---	---	---	---	---	---	---	---	9.4	21.4	---	---	---	---	16.8	0.6
Vona	7.4	21.1	10.2	0.8	---	---	6.4	1.2	---	---	---	---	---	---	16.6	0.6
Cimmaron	---	---	10.2	0.8	---	---	---	---	---	---	---	---	---	---	15.2	0.6
Other & Unknown	24.3	69.5	15.2	1.2	---	---	39.5	7.4	14.5	32.5	68.6	23.5	25.6	13.5	245.1	9.3
ALL VARIETIES	35.0	100.0	1270.0	100.0	285.0	6.3	534.0	100.0	44.0	100.0	292.0	100.0	190.0	100.0	2650.0	100.0

WINTER WHEAT: PERCENT OF TOTAL SEEDED ACREAGE 1988-1993 AND SEEDED ACREAGE 1992-1993

VARIETY	PERCENT OF TOTAL SEEDED ACREAGE										SEEDED ACREAGE	
	1988	1989	1990	1991	1992	1993	1992 1/	1993 2/	(000)	(000)		
Neeley	25.5	22.8	25.7	24.7	25.0	18.8	650.6	498.4	1992 1/	1993 2/		
Rocky	9.0	12.0	9.9	14.0	12.5	14.4	325.7	381.1				
Redwin	19.6	19.8	14.5	13.0	9.9	10.7	257.9	284.6				
Tiber	0.3	1.9	9.5	11.7	13.5	10.6	350.3	281.8				
Judith	---	---	0.1	0.8	7.0	9.7	183.0	256.9				
Norstar	8.7	7.6	6.9	6.6	6.2	6.2	197.7	164.8				
Winarka	9.8	9.7	8.0	5.8	6.1	5.8	159.0	152.4				
Centurk	3.8	3.0	2.7	2.4	3.3	2.3	84.9	61.4				
Roughrider	4.1	2.0	1.9	3.6	2.8	2.1	73.1	55.0				
Siouxland	---	---	---	---	0.1	1.4	3.8	37.6				
Seward	---	---	---	---	0.2	1.4	6.4	35.4				
Warrior	0.8	1.0	1.1	0.4	0.7	1.1	17.1	29.2				
Hawk	0.6	1.2	0.7	0.9	1.0	1.0	26.3	27.0				
Cheyenne	1.7	1.4	1.8	1.2	0.8	1.0	20.3	26.9				
Bighorn	0.1	0.3	0.6	0.8	0.3	1.0	6.5	25.2				
Agassiz	1.1	1.0	0.8	0.7	0.1	0.8	2.9	21.8				
Cree	2.9	3.1	3.9	2.0	0.8	0.6	21.6	16.8				
Stephens	0.5	0.5	0.3	0.2	0.2	0.6	6.2	16.8				
Vona	0.3	0.4	0.5	0.6	0.3	0.6	7.1	16.6				
Cimmaron	0.2	0.5	0.1	0.6	1.0	0.6	25.6	15.2				
Other & Unknown	11.0	11.8	11.0	10.0	6.8	9.3	174.0	245.1				
STATE TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	2600.0	2650.0				

1/ Revised 2/ Preliminary

SPRING WHEAT VARIETIES: SEEDED ACREAGE AND PERCENT OF TOTAL BY DISTRICTS - 1993 PRELIMINARY

VARIETY	NORTHWEST		N. CENTRAL		NORTHEAST		CENTRAL		SOUTHWEST		S. CENTRAL		SOUTHEAST		STATE	
	ACRES (000)	%														
Amidon (ND 606)	--	--	171.6	16.6	592.7	44.5	2.6	2.7	0.1	0.7	4.8	10.5	22.5	22.7	794.3	30.0
WestBred Rambo	--	--	352.6	34.1	37.3	2.8	6.5	6.6	--	--	--	--	--	--	396.4	15.0
Newana	1.6	7.9	112.7	10.9	42.6	3.2	31.0	31.6	2.5	11.9	2.4	5.2	12.3	12.4	205.1	7.7
Len	0.4	1.9	--	--	179.8	13.5	--	--	--	--	2.0	4.4	3.3	3.3	185.5	7.0
Fortuna	--	--	195.5	18.1	24.0	1.8	5.1	5.2	0.4	2.0	2.9	6.3	1.4	1.4	169.3	6.4
Stoa	--	--	38.3	3.7	95.9	7.2	4.3	4.4	--	--	--	--	17.4	17.6	155.9	5.9
Lew	--	--	76.5	7.4	49.3	3.7	0.9	0.9	--	--	2.9	6.3	2.3	2.3	133.3	5.0
Grandin	1.4	7.1	2.1	0.2	79.9	6.0	0.2	0.2	--	--	--	--	11.0	11.1	93.2	3.5
Olaf	--	--	15.5	1.5	51.9	3.9	--	--	--	--	--	--	8.7	8.8	76.1	2.9
WestBred 926	1.3	6.5	12.4	1.2	--	--	5.3	5.4	1.9	9.0	13.3	28.9	4.4	4.4	38.6	1.5
Tioga	--	--	2.1	0.2	36.0	2.7	--	--	--	--	--	--	--	--	38.1	1.4
Glenman	--	--	35.2	3.4	--	--	--	--	--	--	--	--	--	--	35.2	1.3
Northrup King 751	--	--	17.6	1.7	--	--	4.7	4.8	--	--	0.7	1.5	4.2	4.2	27.2	1.0
Celtic	--	--	--	--	24.0	1.8	--	--	--	--	--	--	0.5	0.5	24.5	0.9
Cutlass	--	--	2.1	0.2	18.6	1.4	--	--	--	--	--	--	--	--	20.7	0.8
Pondera	1.8	8.7	11.4	1.1	--	--	0.4	0.4	--	--	--	--	--	--	13.6	0.5
Leader	0.1	0.6	--	--	12.0	0.9	--	--	3.5	16.9	--	--	--	--	12.1	0.5
Penawawa	7.2	35.5	--	--	4.0	0.3	--	--	--	--	2.3	4.9	5.0	5.0	11.3	0.4
Butte	--	--	--	--	84.0	6.3	36.1	36.9	12.4	59.5	14.7	32.0	6.0	6.3	208.0	7.8
Other & Unknown	6.4	31.8	48.4	4.7	1332.0	100.0	98.0	100.0	20.8	100.0	46.0	100.0	99.0	100.0	2650.0	100.0
ALL VARIETIES	20.2	100.0	1034.0	100.0	1332.0	100.0	98.0	100.0	20.8	100.0	46.0	100.0	99.0	100.0	2650.0	100.0

SPRING WHEAT: PERCENT OF TOTAL SEEDED ACREAGE 1988--1993 AND SEEDED ACREAGE 1992-1993

VARIETY	PERCENT OF TOTAL SEEDED ACREAGE										SEEDED ACRES (000)		
	1988	1989	1990	1991	1992	1993	1992 1/	1993 2/	1992 1/	1993 2/	1992 1/	1993 2/	1993 2/
Amidon (ND 606)	--	0.6	4.7	11.7	19.6	30.0	519.3	794.3	519.3	794.3	519.3	794.3	794.3
WestBred Rambo	6.6	9.0	15.5	13.5	16.7	15.0	443.0	396.4	443.0	396.4	443.0	396.4	396.4
Newana	16.2	19.7	16.6	13.3	12.9	7.7	342.0	205.1	342.0	205.1	342.0	205.1	205.1
Len	15.1	15.2	12.7	11.9	8.1	7.0	215.1	185.5	215.1	185.5	215.1	185.5	185.5
Fortuna	11.8	14.6	9.0	8.2	6.6	6.4	174.1	169.3	174.1	169.3	174.1	169.3	169.3
Stoa	10.3	7.9	10.0	8.1	6.7	5.9	176.8	155.9	176.8	155.9	176.8	155.9	155.9
Lew	10.4	10.2	10.7	14.1	8.7	5.0	229.3	133.3	229.3	133.3	229.3	133.3	133.3
Grandin	--	--	--	0.2	0.7	3.5	19.8	93.2	19.8	93.2	19.8	93.2	93.2
Olaf	5.9	5.8	4.5	3.6	2.7	2.9	70.6	76.1	70.6	76.1	70.6	76.1	76.1
WestBred 926	0.1	0.1	0.3	0.7	0.9	1.5	23.8	38.6	23.8	38.6	23.8	38.6	38.6
Tioga	3.1	1.1	1.4	1.1	1.3	1.4	35.6	38.1	35.6	38.1	35.6	38.1	38.1
Glenman	1.1	2.4	1.4	1.5	0.7	1.3	18.8	35.2	18.8	35.2	18.8	35.2	35.2
Northrup King 751	0.9	0.5	1.3	0.8	1.1	1.0	29.4	27.2	29.4	27.2	29.4	27.2	27.2
Celtic	--	--	--	0.4	0.6	0.9	16.6	24.5	16.6	24.5	16.6	24.5	24.5
Cutlass	1.1	0.5	0.7	0.7	0.4	0.8	11.9	20.7	11.9	20.7	11.9	20.7	20.7
Pondera	1.8	2.4	2.2	0.8	1.5	0.5	38.7	13.6	38.7	13.6	38.7	13.6	13.6
Leader	0.9	1.1	0.7	0.4	1.1	0.5	28.8	12.1	28.8	12.1	28.8	12.1	12.1
Penawawa	--	--	--	--	0.1	0.4	3.8	11.6	3.8	11.6	3.8	11.6	11.6
Butte	0.8	0.4	0.4	2.0	0.5	0.4	12.4	11.3	12.4	11.3	12.4	11.3	11.3
Other & Unknown	13.9	8.5	7.9	7.0	9.1	7.9	240.2	208.0	240.2	208.0	240.2	208.0	208.0
STATE TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	2650.0	2650.0	2650.0	2650.0	2650.0	2650.0	2650.0

1/ Revised. 2/ Preliminary.

# WHEAT VARIETIES 1992



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Released: July 28, 1992

## WINTER WHEAT

**Neeley** remains in top position for the fifth consecutive year. It is a semi-dwarf, intermediate maturing variety, first released in 1980. Neeley quickly became a leading variety, replacing acreage previously planted to Redwin, Norstar, Winalta and Centurk. For the last five years it has accounted for about one quarter of the total winter wheat planted acres. Neeley is the top variety in central and southwest Montana, making up about 50% of the acreage in these districts. Neeley has moderate to good milling and baking qualities, but has a 1 to 3 percent lower protein content than other recommended varieties.

**Rocky** once again claims second place just narrowly edging out Tiber with 353,400 acres. Rocky, grown mainly in northcentral Montana, increased 7 percent over last year's acreage. It is a high yielding variety released by North American Plant Breeders with good stem and leaf rust resistance and acceptable milling and baking qualities.

**Tiber** planting increased 29 percent and climbed into third place. It accounts for almost 14 percent of total winter wheat acreage. Tiber was released by M.S.U. in 1987 and has increased in percent of total winter wheat acres each year. Tiber has high yield potential, good winter hardiness and drought tolerance. Tiber also has good milling and baking qualities.

**Redwin** acreage dropped 20 percent to fourth place. This prominent variety has been on the decline since 1984 but still accounts for 9 percent of the total. Redwin is the leading variety in southeast Montana. Redwin was released by Montana State University with good yield potential, winter hardiness, shatter and lodging resistance and a high protein content.

## HARD SPRING WHEAT

**Amidon ND(606)** shot up into the first position as planted acreage increased 74 percent, contributing 20 percent to spring wheat acreage. It was released in 1988 by NDSU. Amidon is especially adapted to dryland conditions where it has excellent yield potential. It has good resistance to both leaf and stem rust, has root rot tolerance and good milling qualities.

**WestBred Rambo** maintained its second position, with planted acreage increasing over 20 percent. It is the top variety in northcentral Montana which has over 86 percent of the total Rambo planted this year. In five years Rambo has climbed from less than 1 percent to become an important variety in the state. It was released by the Western Plant Breeders, with sawfly, and lodging resistance. Rambo contributed 16 percent to the total planted spring wheat acres.

**Newana**, remained in third place, with planted acreage declining 5 percent and accounting for 12 percent of the total planted acres. Newana is a popular spring wheat variety that is grown in every district of the state. It is the top variety in the central section of Montana this year with 40 percent of that district's planted acres. Newana was released by M.S.U, and is a semi-dwarf variety with good milling quality and yield potential.

**Len** moved from fifth place last year to fourth place this year, although planted acreage dropped 26 percent. The northeastern area of the state has a large majority of the Len this year. Len is a semi-dwarf variety from North Dakota with excellent milling and baking quality.

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

Vic continues to be the most prominent durum wheat variety grown in Montana with 35,100 acres or 27 percent of the total planted acreage. The largest share of Vic was planted in the northeast district. Vic is of medium height with good disease resistance to stem rust and root rot. It is moderately resistant to leaf rust, and has satisfactory milling, processing and cooking properties.

Medora moved into second place this season with 21 percent of the planted acreage. Medora occupied almost 23 percent of the northeast's total planted acres of durum. It has been on the scene for six years and has been one of the top five durum wheat varieties since 1988. Medora is a strong-strawed, disease resistant variety with high yield potential.

Monroe dropped to third place with acreage decreasing by almost half. Since its introduction in 1986 it has become one of the top varieties grown in the northeast section of the state. This year it accounted for over 11 percent of the durum planted in that district. It was released by North Dakota in 1985. Monroe is highly resistant to most stem rust, has a high yield potential, and has favorable milling qualities and spaghetti coloring.

WestBred Laker, the fourth leading durum wheat variety, accounted for 11,000 acres. WestBred Laker is the most prominent variety in the northcentral portion of the state. It is a tall semi-dwarf released by the Western Plant Breeders in 1986. WestBred Laker is resistant to stem rust, moderately resistant to leaf rust and has a high yield potential.

## DURUM WHEAT VARIETIES

SEEDED ACREAGE & PERCENT OF TOTAL BY DISTRICTS - 1992

VARIETY	NORTH CENTRAL		NORTHEAST		OTHER DISTRICTS		STATE	
	Acres		Acres		Acres		Acres	
	(000)	PCT	(000)	PCT	(000)	PCT	(000)	PCT
Vic	--	--	34.7	28.9	0.4	28.6	35.1	27.0
Medora	--	--	27.4	22.8	--	--	27.4	21.1
Monroe	--	--	13.5	11.2	--	--	13.5	10.4
WestBred Laker	2.4	28.6	8.5	7.1	0.1	7.1	11.0	8.5
Renville	--	--	7.8	6.5	--	--	7.8	6.0
Ward	--	--	7.7	6.4	--	--	7.7	5.9
Crosby	--	--	6.3	5.2	--	--	6.3	4.8
Kyle	1.9	22.6	0.7	0.6	--	--	2.6	2.0
Wakooma	--	--	1.7	1.4	0.1	7.1	1.8	1.4
Wascana	1.6	19.0	--	--	--	--	1.6	1.2
Lloyd	0.3	3.6	--	--	--	--	0.3	0.2
Other & Unknown	2.2	26.2	11.9	9.9	0.8	57.2	14.9	11.5
STATE TOTAL	8.4	100.0	120.2	100.0	1.4	100.0	130.0	100.0

## DURUM WHEAT

PERCENT OF TOTAL SEEDED ACREAGE 1987-1992 & SEEDED ACREAGE 1991-92

VARIETY	PERCENT OF TOTAL SEEDED ACREAGE						SEEDED ACRES (000)	
	1987	1988	1989	1990	1991	1992	1991 1/	1992 2/
Vic	52.1	29.7	27.4	24.0	15.5	27.0	27.9	35.1
Medora	1.4	8.6	7.8	19.0	14.0	21.1	25.2	27.4
Monroe	0.3	6.1	8.3	14.3	14.2	10.4	25.5	13.5
WestBred Laker	3.0	4.0	15.2	12.7	12.6	8.5	22.7	11.0
Renville	--	--	--	0.6	6.0	6.0	10.9	7.8
Ward	12.3	17.0	18.5	10.2	14.1	5.9	25.3	7.7
Crosby	9.9	14.7	6.3	4.3	4.3	4.8	7.7	6.3
Kyle	--	0.1	0.3	--	--	2.0	--	2.6
Wakooma	--	0.7	1.3	4.0	0.2	1.4	0.4	1.8
Wascana	--	1.7	--	1.0	--	1.2	--	1.6
Lloyd	4.1	6.6	4.6	1.4	5.4	0.2	9.7	0.3
Other & Unknown	16.9	10.8	10.3	8.5	13.7	11.5	24.7	14.9
STATE TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	180.0	130.0

1/ Revised 2/ Preliminary

WINTER WHEAT VARIETIES: SEEDED ACREAGE AND PERCENT OF TOTAL BY DISTRICTS - 1992 PRELIMINARY

VARIETY	NORTHWEST		N. CENTRAL		NORTHEAST		CENTRAL		SOUTHWEST		S. CENTRAL		SOUTHEAST		STATE	
	ACRES	PCT	ACRES	PCT	ACRES	PCT	ACRES	PCT	ACRES	PCT	ACRES	PCT	ACRES	PCT	ACRES	PCT
Neeley	1.7	7.3	269.3	19.7	32.9	12.2	237.8	50.6	19.6	49.0	59.1	21.1	22.6	15.1	643.0	24.7
Rocky	---	---	318.5	23.3	1.9	0.7	25.4	5.4	0.3	0.8	7.3	2.6	---	---	353.4	13.6
Tiber	---	---	180.4	13.2	13.5	5.0	45.1	9.6	3.9	9.8	86.8	31.0	23.3	15.5	353.0	13.6
Redwin	0.8	3.5	64.2	4.7	17.8	6.6	47.9	10.2	3.5	8.6	63.0	22.5	46.8	31.2	244.0	9.4
Norstar	---	---	136.7	10.0	61.0	22.6	1.4	0.3	---	---	---	---	1.2	0.8	200.3	7.7
Judith	---	---	135.3	9.9	1.4	0.5	52.6	11.2	1.4	0.3	0.3	0.1	---	---	191.0	7.3
Winalta	---	---	71.1	5.2	50.2	18.6	8.5	1.8	0.3	0.8	---	---	21.7	14.5	151.8	5.8
Centurk	---	---	---	---	---	---	9.4	2.0	1.7	4.3	8.4	3.0	---	---	90.6	3.5
Roughrider	---	---	---	---	51.8	19.2	---	---	---	---	---	---	---	6.9	62.2	2.4
Cimmaron	---	---	24.6	1.8	---	---	2.4	0.5	---	---	---	---	0.6	10.4	27.6	1.1
Hawk	0.2	1.0	8.2	0.6	---	---	0.5	0.1	---	---	---	---	---	---	26.5	1.0
Cree	---	---	19.1	1.4	---	---	1.4	0.3	0.9	2.3	8.7	3.1	1.5	1.0	22.9	0.9
Cheyenne	---	---	9.6	0.7	1.4	0.5	0.9	0.2	---	---	---	---	---	---	20.6	0.8
Warrior	---	---	0.4	---	---	---	---	---	---	---	---	---	---	---	15.5	0.6
Weston	---	---	---	---	---	---	1.9	0.4	---	---	---	---	---	---	14.3	0.6
Sage	---	---	---	---	10.0	3.7	---	---	---	---	---	---	---	---	11.6	0.4
Archer	---	---	9.6	0.7	---	---	1.9	0.4	---	---	---	---	---	---	11.5	0.4
Thunderbird	---	---	2.7	0.2	3.8	1.4	4.2	0.9	---	---	---	---	---	---	10.7	0.4
Bighorn	---	---	5.5	0.4	---	---	0.5	0.1	---	---	---	---	0.9	---	6.9	0.3
Vona	---	---	2.7	0.2	---	---	4.2	0.9	---	---	---	---	---	---	6.9	0.3
Other & Unknown	20.3	88.2	38.0	2.8	24.3	9.0	24.0	5.1	8.4	20.8	10.8	3.9	9.9	135.7	5.2	
ALL VARIETIES	23.0	100.0	1367.0	100.0	270.0	100.0	470.0	100.0	40.0	100.0	280.0	100.0	150.0	100.0	2600.0	100.0

WINTER WHEAT: PERCENT OF TOTAL SEEDED ACREAGE 1987-1992 AND SEEDED ACREAGE 1991-1992

VARIETY	PERCENT OF TOTAL SEEDED ACREAGE										SEEDED ACREAGE	
	1987	1988	1989	1990	1991	1992	1991 1/2	1992 2/2	(000)	(000)		
Neeley	13.7	25.5	22.8	25.7	24.7	24.7	579.9	643.0	579.9	643.0		
Rocky	8.7	9.0	12.0	9.9	14.0	13.6	328.9	353.4	328.9	353.4		
Tiber	---	0.3	1.9	9.5	11.7	13.6	274.5	353.0	274.5	353.0		
Redwin	21.5	19.6	19.8	14.5	13.0	9.4	305.8	244.0	305.8	244.0		
Norstar	11.3	8.7	7.6	6.9	6.6	7.7	154.9	200.3	154.9	200.3		
Judith	---	---	---	0.1	0.8	7.3	19.6	191.0	19.6	191.0		
Winalta	11.2	9.8	9.7	8.0	5.8	5.8	135.6	151.8	135.6	151.8		
Centurk	6.1	4.1	3.0	2.7	2.4	3.5	84.7	90.6	84.7	90.6		
Roughrider	4.5	4.1	2.0	1.9	3.6	2.4	62.2	62.2	62.2	62.2		
Cimmaron	---	0.2	0.5	0.1	0.6	1.1	14.1	27.6	14.1	27.6		
Hawk	0.2	0.6	1.2	0.7	0.9	1.0	20.3	26.5	20.3	26.5		
Cree	4.2	2.9	3.1	3.9	2.0	0.9	47.6	22.9	47.6	22.9		
Cheyenne	3.4	1.7	1.4	1.8	1.2	0.8	27.7	20.6	27.7	20.6		
Warrior	0.6	0.8	1.0	1.1	0.4	0.6	9.4	15.5	9.4	15.5		
Weston	1.0	1.1	1.6	1.5	1.8	0.6	42.8	14.3	42.8	14.3		
Sage	0.6	1.1	0.6	1.4	0.3	0.4	7.1	11.6	7.1	11.6		
Archer	0.3	0.2	0.4	0.4	0.5	0.4	11.8	11.5	11.8	11.5		
Thunderbird	0.2	0.4	0.5	1.1	1.8	0.4	43.0	10.7	43.0	10.7		
Bighorn	0.1	0.1	0.3	0.6	0.8	0.3	17.8	6.9	17.8	6.9		
Vona	0.5	0.3	0.4	0.5	0.6	0.3	15.4	6.9	15.4	6.9		
Other & Unknown	11.9	9.8	10.2	7.5	6.5	5.2	153.8	135.7	153.8	135.7		
STATE TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	2350.0	2600.0	2350.0	2600.0		

1/ Revised 2/ Preliminary

SPRING WHEAT VARIETIES: SEEDED ACREAGE AND PERCENT OF TOTAL BY DISTRICTS - 1992 PRELIMINARY

VARIETY	NORTHWEST		N. CENTRAL		NORTHEAST		CENTRAL		SOUTHWEST		S. CENTRAL		SOUTHEAST		STATE	
	ACRES	PCT	ACRES	PCT	ACRES	PCT	ACRES	PCT	ACRES	PCT	ACRES	PCT	ACRES	PCT	ACRES	PCT
	(000)		(000)		(000)		(000)		(000)		(000)		(000)		(000)	
Amidon (ND 606)	--	--	155.9	14.8	343.4	27.5	3.4	3.4	--	--	1.3	3.8	27.3	17.1	531.3	20.0
WestBred Rambo	3.8	12.7	365.3	34.7	50.1	4.0	4.9	4.9	--	--	--	--	--	--	424.1	16.0
Newana	6.0	20.0	164.1	15.6	76.2	6.1	39.9	39.9	4.4	16.9	14.6	41.6	23.0	14.4	328.2	12.4
Len	--	--	14.8	1.4	189.7	15.2	--	--	--	--	--	--	23.4	14.6	227.9	8.6
Lew	--	--	132.5	12.6	82.7	6.6	2.3	2.3	--	--	0.5	1.5	8.7	5.4	226.7	8.6
Stoa	--	--	21.6	2.1	143.5	11.5	0.9	0.9	--	--	--	--	19.2	12.0	185.2	7.0
Fortuna	--	--	112.7	10.7	25.8	2.1	13.7	13.7	0.4	1.6	8.2	23.3	3.2	2.0	164.0	6.2
Olaf	--	--	1.7	0.2	67.0	5.4	--	--	--	--	--	--	5.3	3.3	74.0	2.8
Tioga	--	--	--	--	37.2	3.0	--	--	--	--	--	--	--	--	37.2	1.4
Pondera	--	--	17.9	1.7	5.2	0.4	8.0	8.0	2.6	10.0	1.7	4.9	--	--	35.4	1.3
Northrup King 751	1.0	3.3	9.8	0.9	11.0	0.9	--	--	--	--	1.3	3.8	7.8	4.9	30.9	1.2
Leader	--	--	--	--	30.4	2.4	0.3	0.3	--	--	--	--	--	--	30.7	1.2
WestBred 926	3.4	11.3	3.8	0.4	1.0	0.1	6.6	6.6	5.0	19.2	--	--	2.1	1.3	21.9	0.8
Grandin	--	--	0.5	--	14.4	1.2	--	--	--	--	--	--	6.7	4.2	21.6	0.8
Glenman	--	--	15.0	1.4	--	--	2.5	2.5	--	--	--	--	--	--	17.5	0.7
Celtic	--	--	--	--	17.0	1.4	--	--	--	--	--	--	--	--	17.0	0.6
Bounty 309	--	--	--	--	16.7	1.3	--	--	--	--	--	--	--	--	16.7	0.6
Butte	--	--	--	--	12.2	1.0	--	--	--	--	--	--	--	--	12.8	0.5
Cutlass	--	--	--	--	12.0	1.0	--	--	--	--	--	--	0.6	0.4	12.0	0.5
Other & Unknown	15.8	52.7	36.4	3.5	111.5	8.9	17.5	17.5	13.6	52.3	7.4	21.1	32.7	20.4	234.9	8.8
ALL VARIETIES	30.0	100.0	1052.0	100.0	1247.0	100.0	100.0	100.0	26.0	100.0	35.0	100.0	160.0	100.0	2650.0	100.0

SPRING WHEAT: PERCENT OF TOTAL SEEDED ACREAGE 1987 - 1992 AND SEEDED ACREAGE 1991 - 1992

VARIETY	PERCENT OF TOTAL SEEDED ACREAGE										SEEDED ACREAGE					
	1987		1988		1989		1990		1991		1992		1991 1/1		1992 2/1	
		(000)		(000)		(000)		(000)		(000)		(000)		(000)		(000)
Amidon (ND 606)	0.4	6.6	0.6	9.0	4.7	11.7	15.5	13.5	11.7	20.0	304.8	531.3	304.8	531.3		
WestBred Rambo	21.0	16.2	19.7	15.2	16.6	13.3	16.6	13.3	13.5	16.0	351.7	424.1	351.7	424.1		
Newana	11.3	15.1	15.2	10.2	12.7	11.9	12.7	11.9	13.3	8.6	346.7	328.2	346.7	328.2		
Len	10.4	10.4	10.2	7.9	10.7	14.1	10.7	14.1	11.9	8.6	308.3	227.9	308.3	227.9		
Lew	4.2	10.3	11.8	14.6	10.0	8.1	10.0	8.1	8.1	7.0	367.2	226.7	367.2	226.7		
Stoa	19.7	11.8	5.9	5.8	4.5	3.6	4.5	3.6	3.6	6.2	213.2	185.2	213.2	185.2		
Fortuna	5.7	3.1	1.1	1.1	1.4	1.1	1.4	1.1	1.1	2.8	93.0	74.0	93.0	74.0		
Olaf	3.8	3.0	2.4	2.4	1.4	0.8	1.4	0.8	0.8	1.4	28.8	37.2	28.8	37.2		
Tioga	3.0	1.8	0.5	0.5	2.2	0.8	2.2	0.8	0.8	1.3	20.5	35.4	20.5	35.4		
Pondera	1.8	0.9	0.9	1.1	0.7	0.4	0.7	0.4	0.4	1.2	11.6	30.9	11.6	30.9		
Northrup King 751	1.5	0.1	0.1	0.1	0.3	0.7	0.3	0.7	0.7	0.8	17.4	30.7	17.4	30.7		
Leader	--	--	--	--	--	--	--	--	--	0.8	5.2	21.6	5.2	21.6		
WestBred 926	--	--	--	--	--	--	--	--	--	0.7	37.7	17.5	37.7	17.5		
Grandin	1.7	1.1	2.4	2.4	1.4	1.5	1.4	1.5	1.5	0.6	10.8	17.0	10.8	17.0		
Glenman	--	--	--	--	--	--	--	--	--	0.6	7.8	16.7	7.8	16.7		
Celtic	0.4	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.5	51.3	12.8	51.3	12.8		
Bounty 309	1.9	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	17.3	12.0	17.3	12.0		
Butte	0.2	1.1	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.5	17.3	12.0	17.3	12.0		
Cutlass	13.0	13.6	8.3	8.3	7.7	6.7	7.7	6.7	6.7	8.8	175.4	234.9	175.4	234.9		
Other & Unknown	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	2600.0	2650.0	2600.0	2650.0		
STATE TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	2600.0	2650.0	2600.0	2650.0		

1/ Revised. 2/ Preliminary.

# WHEAT VARIETIES 1991

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Released: August 2, 1991

## WINTER WHEAT

Neeley remains in top position for the fourth consecutive year. It is a semi-dwarf, intermediate maturing variety, first released in 1980. Neeley quickly became a leading variety, replacing acreage previously planted to Redwin, Norstar, Winalta and Centurk. For the last four years it has accounted for about one quarter of the total winter wheat planted acres. Neeley is the top variety in central Montana, making up over 60% of that district's total. Neeley has moderate to good milling and baking qualities, but has a 1 to 3 percent lower protein content than other recommended varieties.

Rocky climbed into second place. Since 1982, acreage had been stable at 8-12 percent. This year, it jumped to over 14 percent. Rocky is grown mainly in northcentral Montana. It is a high yielding variety released by North American Plant Breeders with good stem and leaf rust resistance and acceptable milling and baking qualities.

Redwin acreage dropped 22 percent to third place. This prominent variety has been on the decline since 1984 but still accounts for 13 percent of the total. Redwin is the leading variety in southcentral Montana. Redwin was released by Montana State University with good yield potential, winter hardiness, shatter and lodging resistance and a high protein content.

Tiber planting increased 8 percent and remained in fourth place. It accounts for almost 12 percent of the total planted acres. Tiber was released by M.S.U. in 1987 and has increased in percent of total winter wheat acres each year. Tiber has high yield potential, good winter hardiness and drought tolerance. Tiber also has good milling and baking qualities.

## HARD SPRING WHEAT

Lew moved from fourth place last year to first place this year. Over the past ten years it has averaged almost 11 percent of the total planted acres of spring wheat. This year Lew had a 25 percent increase in planted acreage and accounted for more than 14 percent of the total. The northcentral and northeastern areas of the state had a large majority of the Lew this year. Lew is resistant to stripe rust, leaf rust and stem rust, and loose smut, and has high milling and baking qualities.

Rambo maintained its second position, although planted acreage dropped 14 percent. It is the top variety in northcentral Montana which has over 90 percent of the total Rambo planted this year. In four years Rambo has climbed from less than 1 percent to become an important variety in the state. It was released by the Western Plant Breeders, with sawfly, and lodging resistance. Rambo contributed over 14 percent to the total planted spring wheat acres.

Newana dropped from first place to third, with planted acreage dropping 24 percent and accounting for about 13 percent of the total planted acres. Newana is a popular spring wheat variety that is grown in every district of the state. It is the top variety in the central section of Montana this year with 38 percent of that district's planted acres. Newana was released by M.S.U. and is a semi-dwarf variety with good milling quality and yield potential.

Amidon ND(606) shot up into the fourth position as planted acreage more than doubled, contributing over 11 percent of the total. It was released in 1988 by NDSU. Amidon is especially adapted to dryland conditions where it has excellent yield potential. It has good resistance to both leaf and stem rust, has root rot tolerance and good milling qualities.

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

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## DURUM WHEAT

Vic continues to be the most prominent durum wheat variety grown in Montana with 27,900 acres or over 15 percent of the total planted acreage. Since 1987 it has been declining and this year it is down 52 percent partly due to a decrease in durum planting. The largest share of Vic was planted in the northeast district. Vic is of medium height with good disease resistance to stem rust and root rot. It is moderately resistant to leaf rust, and has satisfactory milling, processing and cooking properties.

Monroe moved into second place this season with 14 percent of the planted acreage. Since its introduction in 1986 it has become one of the top varieties grown in the northeast section of the state. This year it accounted for over 16 percent of the durum planted in that district. It was released by North Dakota in 1985. Monroe is highly resistant to most stem rust, has a high yield potential, and has favorable milling qualities and spaghetti coloring.

Ward moves into third position with only a slight increase in total planted acres. Ward accounts for 14 percent of the planted acreage. Over the years Ward has been a prominent variety, being in the top four since the early 1980's. It was named and released by North Dakota in 1972. Ward is resistant to leaf rust and has a high yield potential.

Medora dropped to fourth place, with acreage decreasing by almost half. Medora occupied 16 percent of the northeast's total planted acres of durum. It has been on the scene for five years and has been one of the top five durum wheat varieties since 1988. Medora is a strong-strawed, disease resistant variety with high yield potential.

## DURUM WHEAT VARIETIES

SEEDED ACREAGE & PERCENT OF TOTAL BY DISTRICTS - 1991

VARIETY	NORTH CENTRAL		NORTHEAST		OTHER DISTRICTS		STATE	
	Acres		Acres		Acres		Acres	
	(000)	PCT	(000)	PCT	(000)	PCT	(000)	PCT
Vic	0.4	1.8	27.5	17.5	--	--	27.9	15.5
Monroe	--	--	25.4	16.2	--	--	25.4	14.1
Ward	0.8	3.6	24.5	15.6	--	--	25.3	14.0
Medora	--	--	25.1	16.0	--	--	25.1	14.0
Westbred Laker	8.7	40.5	14.0	8.9	0.2	12.5	22.8	12.7
Renville	--	--	10.8	6.9	--	--	10.8	6.0
Lloyd	4.8	22.3	4.9	3.1	0.1	4.2	9.7	5.4
Crosby	--	--	7.7	4.9	--	--	7.7	4.3
Rugby	--	--	4.5	2.8	--	--	4.5	2.5
Other & Unknown	6.8	31.8	12.6	8.0	1.3	83.3	20.8	11.5
STATE TOTAL	21.4	100.0	157.0	100.0	1.6	100.0	180.0	100.0

## DURUM WHEAT

PERCENT OF TOTAL SEEDED ACREAGE 1986-1991 & SEEDED ACREAGE 1990-91

VARIETY	PERCENT OF TOTAL SEEDED ACREAGE						SEEDED ACRES (000)	
	1986	1987	1988	1989	1990	1991	1990 1/	1991 2/
Vic	29.6	52.1	29.7	27.4	24.0	15.5	58.7	27.9
Monroe	--	0.3	6.1	8.3	14.3	14.1	34.9	25.4
Ward	19.5	12.3	17.0	18.5	10.2	14.0	25.0	25.3
Medora	--	1.4	8.6	7.8	19.0	14.0	46.5	25.1
Westbred Laker	0.3	3.0	4.0	15.2	12.7	12.7	31.2	22.8
Renville	--	--	--	--	0.6	6.0	1.4	10.8
Lloyd	16.6	4.1	6.6	4.6	1.4	5.4	3.5	9.7
Crosby	8.3	9.9	14.7	6.3	4.3	4.3	10.5	7.7
Rugby	--	--	--	--	--	2.5	--	4.5
Wells	1.0	1.2	1.2	0.2	0.3	1.0	0.6	1.7
Wakooma	--	--	0.7	1.3	4.0	0.2	9.8	0.4
Cando	1.9	3.4	1.8	6.6	1.8	0.2	6.0	0.4
Other and Unknown	22.8	12.3	9.6	3.8	7.4	10.1	16.9	18.3
STATE TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	245.0	180.0

1/ Revised 2/ Preliminary

WINTER WHEAT VARIETIES: SEEDED ACREAGE AND PERCENT OF TOTAL BY DISTRICTS - 1991 PRELIMINARY

VARIETY	NORTHWEST		N. CENTRAL		NORTHEAST		CENTRAL		SOUTHWEST		S. CENTRAL		SOUTHEAST		STATE	
	ACRES (000)	PCT	ACRES (000)	PCT	ACRES (000)	PCT	ACRES (000)	PCT	ACRES (000)	PCT	ACRES (000)	PCT	ACRES (000)	PCT	ACRES (000)	PCT
Neeley	---	---	178.5	15.8	9.0	3.0	276.5	60.1	29.5	73.8	62.9	24.2	3.6	560.1	23.8	
Rocky	0.3	1.5	288.2	25.5	20.7	6.9	21.2	4.6	---	---	2.6	1.0	---	332.9	14.2	
Redwin	0.9	4.5	140.1	12.4	4.8	1.6	30.8	6.7	1.5	3.8	91.3	35.1	36.8	306.2	13.0	
Tiber	---	---	155.9	13.8	16.2	5.4	38.2	8.3	1.4	3.6	28.1	10.8	38.5	278.3	11.8	
Norstar	---	---	107.4	9.5	45.9	15.3	---	---	---	---	---	---	5.7	159.0	6.8	
Winalta	---	---	71.2	6.3	43.5	14.5	7.8	1.7	---	---	---	---	17.4	139.9	6.0	
Roughrider	---	---	---	---	81.9	27.3	---	---	---	---	---	---	---	88.1	3.7	
Centurk	---	---	33.9	3.0	---	---	5.5	1.2	---	---	---	---	6.2	88.1	2.3	
Cree	---	---	24.9	2.2	---	---	17.0	3.7	---	---	---	---	1.3	55.0	2.0	
Thunderbird	---	---	5.7	0.5	38.7	12.9	---	---	---	---	---	---	---	46.6	1.9	
Weston	---	---	---	---	---	---	8.7	1.9	0.7	1.8	31.2	12.0	---	40.7	1.7	
Cheyenne	---	---	5.7	0.5	7.2	2.4	6.9	1.5	0.4	1.0	---	---	8.4	28.6	1.2	
Norwin	---	---	15.8	1.4	1.2	0.4	2.8	0.6	0.1	0.2	---	---	---	19.9	0.8	
Judith	---	---	12.4	1.1	---	---	6.9	1.5	---	---	---	---	---	19.3	0.8	
Hawk	---	---	2.3	0.2	---	---	4.6	1.0	---	---	---	---	---	19.3	0.8	
Bighorn	---	---	18.1	1.6	---	---	---	---	---	---	---	---	---	18.1	0.8	
Agassiz	---	---	9.0	0.8	7.5	2.5	---	---	---	---	---	---	---	16.5	0.7	
Vona	---	---	10.2	0.9	---	---	5.1	1.1	---	---	---	---	---	15.2	0.6	
Other & Unknown	18.8	94.0	50.9	4.5	23.4	7.8	28.1	6.1	6.3	15.8	12.5	4.8	22.1	162.0	6.9	
ALL VARIETIES	200	1000	1130.0	100.0	300.0	100.0	460.0	100.0	40.0	100.0	260.0	100.0	140.0	140.0	2350.0	100.0

WINTER WHEAT: PERCENT OF TOTAL SEEDED ACREAGE 1986-1991 AND SEEDED ACREAGE 1990 - 1991  
PERCENT OF TOTAL SEEDED ACREAGE

VARIETY	PERCENT OF TOTAL SEEDED ACREAGE										SEEDED ACRES (000)	
	1986	1987	1988	1989	1990	1991	1990 1/	1991 2/	1990 1/	1991 2/	1990 1/	1991 2/
Neeley	9.0	13.7	25.5	22.8	25.7	23.8	693.2	560.1	251.6	162.0	251.6	162.0
Rocky	9.0	8.7	9.0	12.0	9.9	14.2	266.5	332.9	251.6	162.0	251.6	162.0
Redwin	25.9	21.5	19.6	19.8	14.5	13.0	391.3	306.2	251.6	162.0	251.6	162.0
Tiber	---	---	0.3	1.9	9.5	11.8	256.5	278.3	251.6	162.0	251.6	162.0
Norstar	12.7	11.3	8.7	7.6	6.9	6.8	185.9	159.0	251.6	162.0	251.6	162.0
Winalta	13.8	11.2	9.8	9.7	8.0	6.0	214.7	139.9	251.6	162.0	251.6	162.0
Roughrider	2.6	4.5	4.1	2.0	1.9	3.7	50.5	88.1	251.6	162.0	251.6	162.0
Centurk	7.2	6.1	3.8	3.0	2.7	2.3	72.2	55.0	251.6	162.0	251.6	162.0
Cree	2.6	4.2	2.9	3.1	3.9	2.0	104.2	46.6	251.6	162.0	251.6	162.0
Thunderbird	---	0.2	0.4	0.5	1.1	1.9	29.5	44.4	251.6	162.0	251.6	162.0
Weston	0.8	1.0	1.1	1.6	1.6	1.7	42.3	40.7	251.6	162.0	251.6	162.0
Cheyenne	2.4	3.4	1.7	1.4	1.8	1.2	49.1	28.6	251.6	162.0	251.6	162.0
Norwin	---	0.8	2.2	1.3	0.7	0.8	19.6	19.9	251.6	162.0	251.6	162.0
Judith	---	---	---	---	0.1	0.8	3.6	19.3	251.6	162.0	251.6	162.0
Hawk	0.4	0.2	0.6	1.2	0.7	0.8	19.8	19.3	251.6	162.0	251.6	162.0
Bighorn	---	0.1	0.1	0.3	0.6	0.8	16.4	18.1	251.6	162.0	251.6	162.0
Agassiz	0.1	1.0	1.1	1.1	0.8	0.7	20.6	16.5	251.6	162.0	251.6	162.0
Vona	0.4	0.5	0.3	0.4	0.5	0.6	12.5	15.2	251.6	162.0	251.6	162.0
Other & Unknown	13.1	11.6	8.8	10.3	9.1	6.9	251.6	162.0	251.6	162.0	251.6	162.0

SPRING WHEAT VARIETIES: SEEDED ACREAGE AND PERCENT OF TOTAL BY DISTRICTS - 1991 PRELIMINARY

VARIETY	NORTHWEST		N. CENTRAL		NORTHEAST		CENTRAL		SOUTHWEST		S. CENTRAL		SOUTHEAST		STATE	
	ACRES (000)	PCT														
Lew	0.6	2.3	220.2	18.5	153.3	13.8	0.6	0.7	--	--	--	--	1.0	0.8	375.7	14.5
Rambo	--	--	339.2	28.5	27.8	2.5	5.8	6.4	--	--	--	--	--	--	372.7	14.3
Newana	7.9	31.5	213.0	17.9	73.3	6.6	34.0	37.8	5.8	19.3	10.8	43.0	7.1	5.5	351.9	13.5
Amidon (ND 606)	0.4	1.5	116.6	9.8	161.1	14.5	0.8	0.9	--	--	--	--	22.4	17.4	301.3	11.6
Len	--	--	6.0	0.5	252.2	22.7	--	--	--	--	--	--	33.3	25.8	291.4	11.2
Fortuna	0.4	1.5	144.0	12.1	55.6	5.0	12.0	13.3	6.7	22.3	0.5	2.0	0.3	0.2	219.3	8.4
Stoa	--	--	29.8	2.5	145.5	13.1	3.1	3.4	--	--	--	--	22.4	17.4	200.8	7.7
Olaf	--	--	11.9	1.0	67.8	6.1	--	--	--	--	--	--	9.4	7.3	89.1	3.4
Butte	--	--	--	--	45.6	4.1	--	--	--	--	--	--	3.2	2.5	48.8	1.9
Glenman	--	--	39.3	3.3	1.1	0.1	--	--	--	--	--	--	--	--	40.4	1.6
Tioga	--	--	2.4	0.2	25.6	2.3	--	--	--	--	--	--	--	--	27.9	1.1
Northrup King 751	--	--	8.3	0.7	5.6	0.5	0.1	0.1	--	--	7.3	29.0	0.4	0.3	21.6	0.8
Pondera	--	--	11.9	1.0	6.7	0.6	2.0	2.2	--	--	--	--	--	--	20.5	0.8
Westbred 926	5.8	23.1	8.3	0.7	--	--	0.5	0.6	5.1	17.0	0.3	1.0	--	--	20.0	0.8
Cutlass	--	--	2.4	0.2	14.4	1.3	--	--	--	--	--	--	--	--	16.8	0.6
Solar	--	--	7.1	0.6	5.6	0.5	--	--	--	--	--	--	--	--	12.7	0.5
Pioneer	0.2	0.8	--	--	11.1	1.0	--	--	--	--	--	--	--	--	11.3	0.4
Leader	--	--	--	--	11.1	1.0	--	--	--	--	--	--	--	--	11.1	0.4
Other & Unknown	9.8	39.2	29.8	2.5	47.8	4.3	31.1	34.6	12.4	41.3	6.3	25.0	29.4	22.8	166.5	6.4
ALL VARIETIES	25.0	100.0	1190.0	100.0	1111.0	100.0	90.0	100.0	30.0	100.0	25.0	100.0	129.0	100.0	2600.0	100.0

SPRING WHEAT: PERCENT OF TOTAL SEEDED ACREAGE 1986-1991 AND SEEDED ACREAGE 1990-1991

VARIETY	PERCENT OF TOTAL SEEDED ACREAGE										SEEDED ACREAGE (000)		
	1986	1987	1988	1989	1990	1991	1990	1991	1991	1991	1991	1991	1991
Lew	11.5	10.4	10.4	10.2	10.7	14.5	10.7	14.5	14.5	14.5	300.3	375.7	375.7
Rambo	--	0.4	6.6	9.0	15.5	14.3	15.5	14.3	14.3	14.3	434.3	372.7	372.7
Newana	22.9	21.0	16.2	19.7	16.6	13.5	16.6	13.5	13.5	13.5	463.5	351.9	351.9
Amidon (ND 606)	--	--	--	0.6	4.7	11.6	4.7	11.6	11.6	11.6	132.9	301.3	301.3
Len	11.9	11.3	15.1	15.2	12.7	11.2	12.7	11.2	11.2	11.2	356.8	291.4	291.4
Fortuna	18.2	19.7	11.8	14.6	9.0	8.4	9.0	8.4	8.4	8.4	250.9	219.3	219.3
Stoa	4.4	4.2	10.3	7.9	10.0	7.7	10.0	7.7	7.7	7.7	280.2	200.8	200.8
Olaf	5.7	5.7	5.9	5.8	4.5	3.4	4.5	3.4	3.4	3.4	125.6	89.1	89.1
Butte	2.5	1.9	0.8	0.4	0.4	1.9	0.4	1.9	1.6	1.6	10.4	48.8	48.8
Glenman	0.3	1.7	1.1	2.4	1.4	1.6	1.4	1.6	1.6	1.6	38.3	40.4	40.4
Tioga	1.5	3.8	3.1	1.1	1.4	1.1	1.4	1.1	1.1	1.1	38.3	27.9	27.9
Northrup King 751	3.3	1.8	0.9	0.5	1.3	0.8	1.3	0.8	0.8	0.8	36.6	21.6	21.6
Pondera	1.9	3.0	1.8	2.4	2.2	0.8	2.2	0.8	0.8	0.8	62.1	20.5	20.5
Westbred 926	--	--	0.1	0.1	0.3	0.8	0.3	0.8	0.8	0.8	9.2	20.0	20.0
Cutlass	--	0.2	1.1	0.5	0.7	0.6	0.7	0.6	0.6	0.6	20.3	16.8	16.8
Solar	--	1.3	0.6	0.4	0.6	0.5	0.6	0.5	0.5	0.5	17.9	12.7	12.7
Pioneer	--	--	--	0.1	0.1	0.4	0.1	0.4	0.4	0.4	2.4	11.3	11.3
Leader	0.8	1.5	0.9	1.1	0.7	0.4	0.7	0.4	0.4	0.4	20.3	11.1	11.1
Other & Unknown	15.1	12.1	13.3	8.2	7.2	6.4	7.2	6.4	6.4	6.4	199.7	166.5	166.5
STATE TOTAL	100.0	100.0	100.0	100.0	100.0	99.9	100.0	99.9	99.9	99.9	2800.0	2600.0	2600.0

# Wheat Varieties 1990



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AGRICULTURAL  
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Released: August 2, 1990

## WINTER WHEAT

**Neeley** remained the top winter wheat variety in Montana for the third consecutive year, with over one-quarter of the total winter wheat acreage. It is a semi-dwarf, intermediate maturing variety, released in 1980. Neeley has moderate to good milling and baking qualities, but has a 1 to 3 percent lower protein content than other recommended varieties.

**Redwin** remains in second place although planted acreage dropped 22 percent. Redwin is a variety released by Montana State University with good yield potential, winter hardiness, shatter and lodging resistance and a high protein content. Redwin accounted for 14 percent of the planted acres of winter wheat.

**Rocky** remained in third place, accounting for 10 percent of the planted winter wheat acres. Rocky is a high-yielding variety released by North American Plant Breeders.

**Tiber** climbed into fourth place this year, as planted acreage increased more than 4 times, contributing 9 percent of the total planted acres. Tiber was released by M.S.U. in 1987. It has high yield potential, good winter hardiness and drought tolerance. Tiber also has good milling and baking qualities.

## HARD SPRING WHEAT

**Newana** remained the top spring wheat variety for the seventh consecutive year, accounting for over 17 percent for the total spring wheat acres. Newana was released by M.S.U., and is a semi-dwarf variety with good milling quality and yield potential.

**Rambo** acreage increased 62 percent over last year, moving from fifth place into second place in 1990. It is a variety released by the Western Plant Breeders, with sawfly resistance. Rambo accounted for 17 percent of total planted spring wheat acres.

**Lew** moved from fourth position last year into third this year accounting for about 11 percent of the planted spring wheat acres. Lew is resistant to stripe rust, leaf rust and stem rust, and loose smut, and has high milling and baking qualities.

**Len** dropped into fourth place, accounting for 11 percent of planted acreage. **Stoa** moved up slightly into fifth position followed by **Fortuna** which dropped from third to sixth place.

## DURUM WHEAT

**Vic**, a variety with stem rust resistance, remained at the top of the list, accounting for about one-quarter of the planted durum acreage. Vic is moderately resistant to leaf rust, and has satisfactory milling and baking qualities.

**Medora** acreage increased by 82 percent, moving it into second place, with almost 20 percent of the total planted acres. **Monroe** is third with 14 percent of the planted acreage, followed by **Westbred Laker** with eleven percent of the total acreage.

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WINTER WHEAT VARIETIES: SEEDED ACREAGE AND PERCENT OF TOTAL BY DISTRICTS- 1990 PRELIMINARY

VARIETY	NORTHWEST		NORTH CENTRAL		NORTHEAST		CENTRAL		SOUTHWEST		SOUTH CENTRAL		SOUTHEAST		STATE	
	ACRES (000)	PCT														
Neeley	0.3	1.4	244.4	18.4	34.9	8.7	294.7	58.9	20.4	51.0	75.7	28.0	13.1	9.0	883.5	25.3
Redwin	—	—	183.0	13.8	64.2	16.0	40.2	8.0	2.6	6.5	60.1	22.2	37.1	25.6	387.2	14.3
Rocky	—	—	252.1	18.9	15.5	3.9	10.3	2.1	—	—	3.6	1.3	—	—	281.5	10.4
Tiber	—	—	142.7	10.8	15.0	3.8	29.1	5.8	3.3	8.2	42.3	15.7	20.6	14.2	253.0	9.4
Winalta	—	—	118.8	9.0	71.2	17.7	11.6	2.3	—	—	4.0	1.5	14.6	10.1	220.2	8.2
Norstar	—	—	137.0	10.3	47.6	11.9	9.4	1.9	—	—	—	—	1.2	0.8	195.2	7.2
Cree	—	—	62.0	4.7	12.2	3.1	28.3	5.3	1.2	3.0	9.8	3.6	0.7	0.4	105.8	3.9
Centurk	—	—	51.9	3.9	—	—	10.9	2.2	—	—	—	—	—	0.5	73.1	2.7
Roughrider	—	—	—	—	46.8	11.7	—	—	—	—	—	—	4.7	3.2	51.5	1.9
Cheyenne	—	—	11.6	0.9	6.3	1.6	6.6	1.3	—	—	13.1	4.9	8.2	5.7	45.8	1.7
Sage	—	—	—	—	31.6	7.9	—	—	—	—	—	—	8.2	5.7	39.8	1.5
Weston	—	—	—	—	—	—	—	—	—	—	36.9	13.7	—	—	36.9	1.4
Thunderbird	—	—	—	—	—	—	—	—	—	—	2.3	0.9	—	—	28.5	1.1
Warrior	—	—	8.8	0.7	16.0	4.0	2.4	0.5	—	—	—	—	22.7	15.7	28.6	1.1
Agassiz	—	—	4.9	0.4	0.5	0.1	0.5	0.1	—	—	—	—	2.1	1.4	20.9	0.8
Norwin	—	—	1.0	0.1	17.8	4.4	—	—	—	—	1.7	0.6	—	—	19.9	0.7
Hawk	1.5	7.3	14.3	1.1	3.5	0.9	0.4	0.1	—	—	9.3	3.4	—	—	18.4	0.7
McDermid *W	—	—	5.0	0.4	1.0	0.3	1.6	0.3	—	—	—	—	—	—	17.8	0.7
Other and Unknown	18.2	91.3	72.4	5.5	15.9	4.0	56.0	11.2	2.7	6.8	7.9	2.9	11.2	7.7	191.4	7.0
ALL VARIETIES	20.0	100.0	1325.0	100.0	400.0	100.0	500.0	100.0	40.0	100.0	270.0	100.0	145.0	100.0	2700.0	100.0

WINTER WHEAT: PERCENT OF TOTAL SEEDED ACREAGE 1984-1990 AND SEEDED ACREAGE 1988-1990

VARIETY	PERCENT OF TOTAL SEEDED ACREAGE								SEEDED ACRES (000)	
	1984	1988	1987	1988	1989	1990	1989 1/	1990 2/	1989 1/	1990 2/
Neeley	1.3	9.0	13.7	25.5	22.8	25.3	571.1	683.5	571.1	683.5
Redwin	34.8	25.9	21.5	19.6	19.8	14.3	495.3	387.2	495.3	387.2
Rocky	11.1	9.0	8.7	9.0	12.0	10.4	300.5	281.5	300.5	281.5
Tiber	—	—	—	0.3	1.9	9.4	47.2	253.0	47.2	253.0
Winalta	13.4	13.8	11.2	9.8	9.7	8.2	241.6	220.2	241.6	220.2
Norstar	11.7	12.7	11.3	8.7	7.6	7.2	181.4	185.2	181.4	185.2
Cree	—	2.6	4.2	2.9	3.1	3.9	78.7	105.8	78.7	105.8
Centurk	6.6	7.2	6.1	3.8	3.0	2.7	73.9	73.1	73.9	73.1
Roughrider	4.0	2.8	4.5	4.1	2.0	1.9	49.6	51.5	49.6	51.5
Cheyenne	5.1	2.4	3.4	1.7	1.4	1.7	34.3	45.8	34.3	45.8
Sage	0.1	0.3	0.6	1.1	0.6	1.5	14.5	39.8	14.5	39.8
Weston	0.5	0.8	1.0	1.1	1.8	1.4	40.7	36.9	40.7	36.9
Thunderbird	—	—	0.2	0.4	0.5	1.1	12.6	29.5	12.6	29.5
Warrior	1.5	0.7	0.6	0.8	1.0	1.1	25.2	28.6	25.2	28.6
Agassiz	—	0.1	1.0	1.1	1.1	0.8	27.9	20.9	27.9	20.9
Norwin	—	—	0.8	2.2	1.3	0.7	33.5	19.9	33.5	19.9
Hawk	0.1	0.4	0.2	0.6	1.2	0.7	30.1	18.4	30.1	18.4
McDermid *W	—	—	0.4	0.1	0.0	0.7	0.8	17.8	0.8	17.8
Other & Unknown	10.0	12.5	10.6	7.2	9.4	7.0	231.1	191.4	231.1	191.4
STATE TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	2500.0	2700.0	2500.0	2700.0

1/ Revised 2/ Preliminary \*W - Soft White Wheat

SPRING WHEAT VARIETIES: SEEDED ACREAGE AND PERCENT OF TOTAL BY DISTRICTS - 1990 PRELIMINARY

VARIETY	NORTHWEST		NORTH CENTRAL		NORTHEAST		CENTRAL		SOUTHWEST		SOUTH CENTRAL		SOUTHEAST		STATE	
	ACRES (000)	PCT														
Newmana	5.0	16.7	319.8	22.6	60.8	6.5	48.8	46.6	6.7	22.4	22.3	37.2	24.5	10.7	487.7	17.3
Rambo	—	—	405.8	28.6	67.8	7.3	3.3	3.1	—	—	—	—	—	—	476.7	16.9
Lew	—	—	248.6	17.6	69.6	7.5	—	—	—	—	0.2	0.3	—	—	318.4	11.4
Len	2.4	8.0	2.2	0.2	242.8	26.0	—	—	—	—	—	—	80.1	26.4	307.5	11.0
Stoa	—	—	34.1	2.4	156.7	16.8	4.0	3.8	—	—	—	—	64.5	28.4	259.3	9.3
Fortuna	0.7	2.3	173.9	12.3	48.3	5.2	23.6	22.5	0.7	2.3	2.5	4.2	4.8	2.0	254.3	9.1
Anidon (ND 606)	—	—	55.4	3.9	59.6	6.4	1.2	1.1	—	—	2.2	3.7	9.6	4.2	128.2	4.6
Olaf	—	—	17.7	1.2	73.1	7.9	0.2	0.2	—	—	—	—	23.9	10.5	114.8	4.1
Pondera	1.6	5.3	29.3	2.1	12.3	1.3	9.8	9.3	3.0	10.0	3.8	6.3	—	—	59.8	2.1
Glenman	—	—	42.7	3.0	1.8	0.2	—	—	—	—	—	—	—	—	44.5	1.6
Northrup King 751	—	—	20.1	1.4	13.2	1.4	0.4	0.4	0.7	2.3	0.3	0.5	2.3	1.0	37.0	1.3
Tioga	—	—	10.1	0.7	23.1	2.5	—	—	—	—	—	—	—	—	33.2	1.2
Solar	—	—	16.9	1.2	2.4	0.3	—	—	—	—	—	—	—	—	19.3	0.7
Leader	—	—	1.7	0.1	15.0	1.6	—	—	—	—	—	—	—	—	16.7	0.6
Curtlass	—	—	—	—	15.6	1.7	—	—	—	—	—	—	—	—	15.8	0.6
Success	3.6	12.0	—	—	8.0	0.9	—	—	—	—	—	—	—	—	12.6	0.5
Butte	—	—	0.3	0.0	3.6	0.4	—	—	—	—	—	—	—	—	8.3	0.3
Alex	—	—	3.1	0.2	5.7	0.6	—	—	—	—	—	—	—	—	1.7	0.1
Westbred 906R	2.1	7.0	0.6	0.0	0.5	0.1	—	—	—	—	—	—	—	—	0.9	0.0
Other & Unknown	14.6	48.7	34.9	2.5	50.1	5.4	13.7	13.0	18.9	63.0	22.5	37.5	26.6	11.7	181.3	6.5
ALL VARIETIES	30.0	100.0	1417.0	100.0	930.0	100.0	105.0	100.0	30.0	100.0	60.0	100.0	228.0	100.0	2800.0	100.0

SPRING WHEAT: PERCENT OF TOTAL SEEDED ACREAGE 1984-1990 AND SEEDED ACREAGE 1989-1990

VARIETY	PERCENT OF TOTAL SEEDED ACREAGE										SEEDED ACRES	
	1984	1986	1987	1988	1989	1990	1989 1/2	1990 2/2	(000)	(000)		
Newmana	21.8	22.9	21.0	16.2	19.3	17.3	19.8	19.0	676.0	487.7		
Rambo	—	—	0.4	6.6	8.4	16.9	—	—	295.0	476.7		
Lew	10.0	11.5	10.4	10.4	9.7	11.4	—	—	339.8	318.4		
Len	12.4	11.9	11.3	15.1	16.1	11.0	—	—	584.5	307.5		
Stoa	—	4.4	4.2	10.3	8.0	9.3	—	—	278.9	259.3		
Fortuna	12.0	16.2	19.7	11.8	13.8	9.1	—	—	483.3	254.3		
Anidon (ND 606)	—	—	—	—	0.6	4.6	—	—	21.4	128.2		
Olaf	9.5	5.7	5.7	5.9	6.2	4.1	—	—	215.3	114.9		
Pondera	2.3	1.9	3.0	1.8	2.5	2.1	—	—	88.1	59.8		
Glenman	—	0.3	1.7	1.1	2.2	1.6	—	—	76.5	44.5		
Northrup K. 751	1.5	3.3	1.8	0.9	0.5	1.3	—	—	16.3	37.0		
Tioga	2.9	1.5	3.8	3.1	1.2	1.2	—	—	41.5	33.2		
Solar	—	—	1.3	0.6	0.3	0.7	—	—	12.2	19.3		
Leader	0.1	0.8	1.5	0.9	1.2	0.6	—	—	40.9	16.7		
Curtlass	—	—	0.2	1.1	0.5	0.6	—	—	17.3	15.6		
Success	—	—	1.4	2.4	1.0	0.5	—	—	34.0	12.6		
Butte	4.0	2.5	1.9	0.8	0.5	0.4	—	—	16.2	12.2		
Alex	0.4	0.7	1.3	0.8	0.8	0.4	—	—	28.8	10.5		
Westbred 906R	—	—	0.5	0.2	0.2	0.4	—	—	6.1	10.3		
Other & Unknown	23.1	14.4	8.9	10.0	7.0	6.5	—	—	247.9	181.3		
STATE TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	—	—	3500.0	2800.0		

1/ Revised 2/ Preliminary

DURUM WHEAT VARIETIES: SEEDED ACREAGE & PERCENT OF TOTAL BY DISTRICTS - 1990

VARIETY	NORTH CENTRAL		NORTHEAST		OTHER DISTRICTS		STATE	
	(000)	PCT	(000)	PCT	(000)	PCT	(000)	PCT
Vic	0.9	3.0	59.3	28.1	--	--	60.2	24.6
Medora	--	--	46.7	22.1	1.4	36.9	48.1	19.6
Monroe	2.9	9.7	32.3	15.3	--	--	35.2	14.4
Westbred Laker	15.7	52.3	12.3	5.8	0.1	2.6	28.1	11.5
Ward	0.7	2.3	24.9	11.8	--	--	25.6	10.4
Crosby	--	--	10.7	5.1	--	--	10.7	4.4
Wakooma	--	--	10.1	4.8	--	--	10.1	4.1
Cando	3.2	10.7	2.2	1.0	--	--	5.4	2.2
Other & Unknown	6.6	22.0	12.7	6.0	2.3	60.5	21.6	8.8
STATE TOTAL	30.0	100.0	211.2	100.0	3.8	100.0	245.0	100.0

DURUM WHEAT: PERCENT OF TOTAL SEEDED ACREAGE 1984-90 & SEEDED ACREAGE 1989-90

VARIETY	PERCENT OF TOTAL SEEDED ACREAGE							SEEDED ACRES (000)	
	1984	1986	1987	1988	1989	1990	1989 1/	1990 2/	
Vic	36.9	29.6	52.1	29.7	27.4	24.6	93.3	60.2	
Medora	--	--	1.4	8.6	7.8	19.6	26.4	48.1	
Monroe	--	--	0.3	6.1	8.3	14.4	28.4	35.2	
Westbred Laker	--	0.3	3.0	4.0	15.2	11.4	51.7	28.1	
Ward	22.0	19.5	12.3	17.0	18.5	10.5	62.8	25.6	
Crosby	9.8	8.3	9.9	14.7	6.3	4.4	21.3	10.7	
Wakooma	--	--	--	0.7	1.3	4.1	4.5	10.1	
Cando	3.7	1.9	3.4	1.8	6.6	2.2	22.3	5.4	
Lloyd	2.1	16.6	4.1	6.6	4.6	1.2	15.6	2.9	
Wascana	--	0.4	--	1.7	--	1.0	--	2.4	
Rolette	10.7	1.6	3.6	2.6	--	0.8	--	2.0	
Renville	--	--	--	--	--	0.6	--	1.5	
Other & Unknown	14.8	21.8	9.9	6.5	4.0	5.2	13.7	12.8	
STATE TOTAL 3/	100.0	100.0	100.0	100.0	100.0	100.0	340.0	245.0	

1/ Revised 2/ Preliminary