

## 2007 Recommended Varieties: Hard Winter Wheat and Soft White Winter Wheat for Montana by District

Variety	Districts (see map on cover)					
	1	2	3	4	5	6
<b>Hard Red and Hard White Winter Wheat</b>						
Bynum (P) <sup>2/</sup> ++				D	D	
CDC Falcon (P)+		DI	DI	DI	DI	DI
Genou + <sup>2/</sup>			D	D	D	
Hyalite (HWW, P)++		D	D	D	D	
Jagalene (P)+	D	D	D	D	D	
Jerry						D
Ledger (P)+		D		D	D	
Morgan (P)+		D	D	D	D	D
Neeley		D	D	D	D	
Norris (P)++		D	D	D		
Promontory <sup>1/</sup>	D	D	DI	D		
Pryor (P)+		D	D	D	D	D
Rampart <sup>2/</sup>			D	D	D	
Rocky (P)			D	D	D	
Vanguard <sup>2/</sup>				D	D	
Wahoo +			D	D		
Yellowstone ++	D	D	D	D	D	
<b>Soft White Winter Wheat</b>						
Eltan	D	D				
Hill 81	D	D				
Lewjain	D					
Malcolm	D	D				

HWW = Hard White Winter Wheat

D = Dryland

I = Irrigated

(P) = a Private Variety

+ = a "Protected" variety under the Plant Variety Protection Act

++ = PVP Title V pending

<sup>1/</sup> = dwarf smut resistant

<sup>2/</sup> = sawfly areas only

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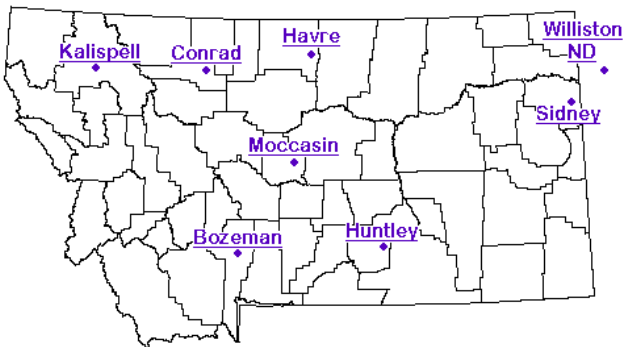
# WINTER WHEAT VARIETY PERFORMANCE SUMMARY IN MONTANA

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## Introduction

The agronomic characteristics of winter wheat varieties recently developed or evaluated by the Montana Agricultural Experiment Station are compared in this publication with other varieties grown in the state. Varieties recommended for production in the respective districts of Montana are designated by an **R**. A brief description of each variety is given which may include a variety's particular advantages or disadvantages. The information was extracted from the Intrastate Winter Wheat Nursery and the Soft White Winter Wheat Nursery Reports. These reports are prepared by research personnel of the Montana Agricultural Experiment Station. Where available, up to four years of yield data are shown for the varieties. In some years data are not available because of hail, frost, or other unavoidable causes.

## Variety Testing Procedures



**Fig. 1. Test Locations for Montana winter wheat performance tests in 2006.**

## Locations

Hard winter wheats were planted at 7 Montana and 1 North Dakota location (Fig. 1) including Conrad and Havre in the North Central district, Moccasin in the Central district, Huntley in the Southern district, Sidney and Williston, ND representing the Northeast district, Kalispell in the Northwest and Bozeman in the Southwest districts of the state. Separate tests comparing soft white winter wheat varieties were planted at Bozeman, Kalispell and Moccasin.

## Entries

Names of commercially available entries evaluated in 2006 are listed with their origins, experimental designation, release year, and pedigrees in Table 2 for the hard winter wheats and in Table 15 for the soft white wheats. Forty-nine hard wheats are included in this summary comprising 36 varieties (21 public and 15 private) and 13 experimental lines (all public). Numbered entries preceded by a state designation [e.g. MT0495 (Montana)] are experimental lines provided by the breeder of the originating state. Private experimental lines [e.g. BZ9W02-2060 (WestBred, now named Carter)] are submitted for testing on a fee basis. The soft white evaluation contains 16 varieties [14 soft white public (including 4 experimental lines), 1 private, and one hard wheat check (Neeley).]

## Experimental Design and Seeding Methods

The Intrastate Winter Wheat Test consisted of a 49 entry test with 3 replicates. It was planted in the form of 7x7 lattice at all locations except Kalispell and Moccasin, where it was in a randomized complete block design. Plot size varied by location, from 35 ft<sup>2</sup> at Conrad to 60 ft<sup>2</sup> at Havre. Row number varies: Bozeman and Havre are 3-row, Conrad, Huntley, and Sidney are 4-row, Moccasin (5-row), Kalispell (7-row), and Williston (8-row) Row spacing at all locations was on 1 ft. centers, except at Williston and Kalispell (6" centers). All plots were seeded at 0.6 grams seeds/ft<sup>2</sup>, which is roughly equivalent to 1 bushel per acre, except at Williston where the seeding rate was about 77 pounds per acre. Information on previous crop, planting date, fertilizer use and harvest date is available in Table 1.

Soft white winter wheat nurseries were planted similar to the hard wheat test, except all tests were planted in a randomized complete block design.

All seed for each nursery was treated with Dividend-XL seed treatment at recommended rates before planting.



























































