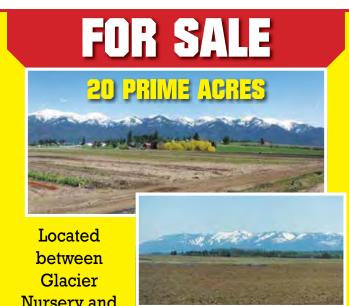
Trader's Dispatch, June 2017 — Page A12	
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I INVON AND I KAILENS I VK SI	
2013 International Prostar, 15 liter engine 560 h	np, 18
speed, full lockers, 300,000 miles. DPF deleted b	y Per-
formace Diesel Inc\$3	
2006 Load King 51-ft. step deck, tri-axle, air ride,	
num deck, good tires\$2	
1997 Wilson 49-ft. grain trailer, tri-axle, new tarp,	
tires \$2	
1985? Utility 32-ft. pup trailer, good deck	

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# Winter Wheat Variety Performance **Summary in Montana**

By J. E. Berg, P. L. Bruckner, B. Bohannon, S. Briar, P. Carr, C. Chen, C. Cook, R. Garza, K. D. Kephart, P. Lamb, A.T. Link, J. H. Miller, G. Pradhan, G.V.P. Reddy, R.N. Stougaard, A. Dyer, D. Holen, D. Nash, and H. Rimel

#### 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. This data is 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, winter-kill, or other unavoidable causes.

### **Variety Testing Procedures**

Fig. 1. Test Locations for Montana winter wheat performance tests in 2016.



Figure 1



**CONTINUED ON PAGE A14** 

# Fort Ellis Research Station to hold an **Organic Production Field Day**

Montana State University researchers have over the last five years been exploring innovate organic ways to control weeds, increase yields, improve rotations, and integrate livestock into cropping systems at the Fort Ellis Research Station outside of Bozeman. They are ready to share some of their intermediate findings at a field day that is being called "Organic Principles Review" (OPR), to be held June 13, 2017 at the research station and on campus in Linfield Hall. The event is a collaboration of the Organic Advisory and Research Council (OAEC), Montana State University Extension, Montana Farmers Union, and the Montana Organic Association. Presentations by MSU faculty and staff will cover an overview of: Five-year rotation using contrasting systems; crop yield and quality; weed management, including bindweed research; beneficial insects; soil quality and greenhouse gas emissions; assessing climate change impacts; and integrating livestock into cropping systems. In addition presenters will share an economic overview of the systems and discuss ongoing and future organic research initiatives including what the future may hold for food and organic production. The following MSU faculty and staff will be on-hand to discuss their research and answer questions from attendees: Pat Hatfield, Sue Ishaq, Fabian Menalled, Perry Miller, Zach Miller, Anton Bekkerman, Pat Carr, Alison Harmon, Subodh Adhikari, Devon Ragen, and Tim Seipel. Additional OAEC guest speakers will be Director Ben Thomas of the Montana Department of Agriculture, Chris Christiansen from Montana Farmers Union, and Bob Quinn founder of Kamut International.

"The Organic Advisory and Education Council is pleased to be a host of this exciting event," said Ole Norgaard, OAEC board chair. "We are grateful to see this level of comprehensive organic research being done by Montana State University, focused on developing and refining organic cropping systems and weed control for Montana farmers. The lessons they are learning will be instructive to both organic and conventional producers who are constantly looking

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OPR will take place at the Fort Ellis Research Station in the morning, and then further discussions and analysis will be held from on the MSU Campus.

Fort Ellis Research Farm 9:00 am-12:00pm - 33336 East Frontage Road, Bozeman, MT 59715. From Interstate 90 and Main St. (Exit 309), Research Farm is located 2 miles east on Frontage Road.

Linfield Hall 1:00pm-4:30pm - MSU Campus, corner of S. 11th Ave. and W. Cleveland St. From Interstate 90 and N. 19th Ave. (Exit 305), travel south on N. 19th Ave. for 3 miles. Turn east on W. College St. for ½ mile to S. 11th Ave. Linfield Hall is located on south side of campus. Campus parking passes can be bought at Fort Ellis. Tour is free and open to the public.

<u>Trader's Dispatch, June 2017 – Page A14</u> Say you saw it in the Trader's Dispatch

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2006 Cat 930G 7460 hours, enclosed cab with heat and air conditioning, ride control, 3 CY bucket, 48" loader forks, hydraulic cou-

pler, auxiliary hydraulics, air ride seat, new tires, has been through shop, serviced, needs nothing. Located in Spearfish, SD. 



2012 Case 850L 1090 hours, enclosed cab with heat and air conditioning, air ride seat, 6 way PAT blade, CELT XLT track system, front counter weight, 3 shank ripper, sweeps, complete rock guards, rear cab

screen, serviced, nearly new, needs nothing. Located in Spearfish, SD. ..... \$92,500



tor, MT....



heat and air conditioning, PAT blade, multi-shank ripper, air ride seat, undercarriage at 70%, serviced and ready to go. Located in Vic-2013 Volvo MC135C skid steer, new and unused, 9

2006 Deere 650J XLT 2660 hours, enclosed cab with

hours, enclosed cab with heat and air conditioning, hydraulic quick coupler, bucket float, ride control, Brawler solid flex never flat tires, 78" bucket, waste and

recycling protection guard package, foot throttle, pattern changer, creep speed 74 hp, 3000 lb. operating load, 6000 ated in Spearfish 10

# Winter Wheat Variety Performance **Summary in Montana**

**CONTINUED FROM PAGE A12** 

#### Locations

Hard winter wheats were planted at 8 Montana and 1 North Dakota location (Fig. 1) including Carter/Ft. Benton, 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.

#### **Entries**

Names of commercially available varieties and experimental lines evaluated in 2016 are listed with their origins, experimental designation, release year, and pedigrees in Table 2 for the hard winter wheats. Forty-nine hard wheats are included in this summary comprising 30 varieties (15 public and 15 private) and 19 experimental lines (18 public and 1 private). Numbered entries preceded by a state designation [e.g. MT1348 (Montana) or private company, PSB13NEDH-14-71, (Limagrain)] are experimental lines provided by the breeder.

### **Experimental Design and Seeding Meth**ods

The Intrastate Winter Wheat Test consists of a 49 entry test with 3 replicates. These tests are planted as 7x7 lattices or a randomized complete block design at each location. Plot size varied by location, from 35 ft2 at Conrad to 60 ft2 at Havre. Row number varies: Bozeman and Havre are 3-row, Conrad, Huntley, Carter, 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/ft2, 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.

All seed for each nursery was treated with Cruiser Maxx Cereals seed treatment at recommended rates before planting.

### **Description of Data Collected** Yield

All rows of each plot were trimmed and measured and harvested using an experimental plot combine.

Grain yields are reported in bushels per acre based on a 60 pound standard bushel weight. In addition to yields obtained in 2016, data is provided for two (2015-2016), three (2014-2016) and four (2013-2016) year averages for hard wheat entries tested during previous cropping seasons

Test Weight

Test weights (pounds per bushel) were obtained for each plot by using Dickey-John Grain Analysis Computer (GAC) at some locations. Other locations use a Seedburo test weight apparatus. In this case, a sample is dropped through a funnel at a given height into a quart brass bucket, excess grain is removed by a flat stick then weighed on a gram scale, and grams per quart are converted into pounds per bushels.

*Heading Date* 

Heading date is taken when 50% of the heads in a plot were extended above the flag leaf collar. Heading dates are recorded both in ordinal date (number of days from January 1) and the actual calendar date.

### Plant Height

Plant height was measured, in inches, from the soil surface to the top of the head, excluding the awns.

**CONTINUED ON PAGE A18** 

# 2017 Recommended Varieties: Hard Winter Wheat for Montana by District

	Districts (see map on cover)									
Variety	1	2	3	4	5	6				
	Northwest	Southwest	Southeast	Central	North Central	Northeas				
lard Red Winter Wheat										
Bearpaw + <sup>1/</sup>		-	D	D	D	-				
Broadview (P)					D	D				
Colter +		D	D	D	D					
Decade +			D	D	D	D				
Jerry						D				
Judee +1/			D	D	D					
Keldin (P)+ <sup>2/</sup>	D	D	D	D	D	D				
Loma ++	D	D	D	D	D	D				
Northern ++		D	D	D	D	-				
SY Wolf (P)+		D	D	D	D					
Warhorse +1/			D	D	D					
WB-Quake (P)+	D	D	D	D	D	D				
Yellowstone +	D	D	D	D	D					



2012 Volvo MC115C 620 hours, enclosed cab with heat and air conditioning, 76" bucket, quick coupler, auxiliary hydraulics, ride control, 2-speed travel, creep speed, good tires, 74 hp, 2600 pound operating load, 5300 pound tipping

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2-2005 JCB 506C HL 3500 hours, 3-way steering, all wheel drive, Perkins engine, guick coupler, auxiliary hydraulics, frame tilt, foam filled tires, 6000 lb. lift capacity, 36-ft. reach, 24,000 lb. operating weight,

very nice machine, serviced and job site ready. Located in Spearfish, SD & Victor, MT...... \$29,500

D = Dryland

- | = Irrigated
- (P) = a Private Variety
- + = a "Protected" variety under the Plant Variety Protection Act
- ++ = PVP Title V pending
- 1/ = sawfly areas only
- <sup>2/</sup> = pending approval at Variety Release Meeting, February 21, 2017

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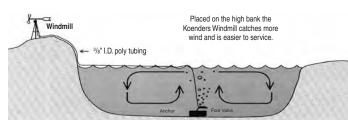
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# Winter Wheat Variety Performance Summary in Montana

**CONTINUED FROM PAGE A14** 

Table 1. Summary of agronomic practices used on hard winter wheat performance trials in Montana in 2016. Fall nitrogen (N), phosphorus (P<sub>2</sub>0<sub>5</sub>) and potassium (K<sub>2</sub>O) were preplant applied and incorporated.

		100 Aug 100	2015			2016		
	2015	2014	Planting		N			Harves
Location	Crop	Crop	Date	Fall	Spring	P205	K20	Date
					- Pounds	per acre		
Kalispell	spring wheat	canola	Oct 1	9	40	40	75	Aug 16
Bozeman	fallow	spring wheat	Sep 26	132		10	10	Aug 4
Huntley	irrig. Barley	irrig. corn	Oct 16	111	52	0	1	Jul 30
Moccasin	chem. fallow	barley	Sep 23	10	60	15	10	Aug 1
Conrad	chem. fallow	barley	Sep 29	51	130	22	20	Jul 24
Havre	chem. fallow	barley	Sep 12	100	50	20	10	Jul 22
Carter	chem. fallow	na	Oct 7	16	28	20	0	Jul 25
Sidney	fallow	peas	Sep 16	0		0	0	Jul 19
Williston, ND	lentils	peas	Sep 15	5.5	30.5	0	0	Jul 25

### Grain Protein

Grain protein is sampled from a composite of all 3 replicated plots at each location. It is determined as a % by NIR (near infrared reflectance) on the Infratec whole grain analyzer. Samples are adjusted to a 12% moisture basis.

#### Winter Survival

Percent winter survival is estimated for each plot after initial spring green-up at locations where significant winter injury occurred. There was no differential winter-kill at either Sidney or Williston in 2016.

Table 12 contains information on % winter survival and associated yield in winter-kill environments from 2007 to 2015. The data summarizes 8 tests in which significant winter-kill occurred (test average for winter survival was less than 90%). All sites with winter-kill were in District 6 (Sidney and Williston) which is the most severe location for winter wheat survival of our testing locations.

#### Wheat Stem Sawfly

Wheat stem sawfly (WSS) is a persistent and economic problem for wheat growers in Montana. Currently, Montana wheat acreage infested by WSS is primarily in the north central (District 5), central (District 4) and south central (District 3) cropping districts. Host plant resistance in the form of stem solidness has been effective in reducing sawfly losses in both spring and winter wheat. Solid-stemmed winter wheats, 'Vanguard', 'Rampart', and "Genou' were leading varieties in the past but are now planted on only minor acreage. Current solid-stemmed varieties include: Judee, (released in 2011, the second leading variety at 18% of planted acreage), Warhorse (2013, the third leading variety at 10%) Bearpaw (2011, 4%), and WB-Quake (2010, 1%).

Table 13 contains information on yield and % sawfly cutting at 10 testing locations where sawfly pressure was present during the years 2011-2016. The data is from Havre, Loma (15 miles northeast of Ft. Benton), Turner (60 miles east-northeast of Havre), Carter (13 miles west of Ft. Benton), and Willow Creek (35 miles west-northwest of Bozeman). Solidness scores (rated on a 5-25 scale) are shown for solid and semi-solid varieties in Table 15. Table 15 contains information on grain maturity, chaff color, relative winter survival and straw strength for the hard wheat varieties listed in this publication.

### Cereal Quality

Milling and baking characteristics for varieties are presented in Table 14. They are rated for each variety on a 1-5 scale (5 = superior). A quantitative polyphenol oxidase (PPO) has been determined for varieties since the 2006 mill and bake evaluation. These varieties are reported in Table 15 as low to high. A lower value is associated with better Asian noodle quality.

#### Disease Reactions

Disease reactions for hard red wheat varieties are listed in Table 15. There is information on dwarf smut, stripe rust, stem rust and leaf rust.

### Statistical Analyses and Interpretation

The data collected at each winter wheat location was analyzed as a three-replication lattice or randomized complete block design. Least significant difference at the 0.05 probability level (LSD, p = 0.05) and coefficients of variation (CV) were calculated from analysis of variance at each location. The LSD is used to compare the performance of two specific varieties at a time. If the difference between two varieties exceeds the LSD this is interpreted as a true difference, because a difference between two varieties this large will only occur 5% of the time due to chance.

Tables 3 through 11 show 2016 data for hard winter wheat collected at all harvested experiment station sites. Where a variety has been in the test for two, three or four years, combined analyses of the yield data over years are presented.

Variety selection should be based on yield stability at a particular location over a period of years. Selection should also consider test weight, winter-hardiness, heading date, plant height, protein and disease resistance.

#### 2016 Test Conditions

Statewide winter wheat yields were projected by the Montana Agricultural Statistics Service at 49 bushels per acre (bu/a), for 2016, tying the record set in 2010. This is an increase over the 41 bu/a for the 2015 harvest year. The harvested acreage in 2016 was 2.15 million acres (total production = 105.4million bu) compared 2.22 million acres in 2015 (total production = 91.2 million bu). Rainfall for the 2015-2016 crop year was generally above average at all locations tested (Table 14), except Bozeman, Kalispell, and Huntley (range = -2.81 inches at Kalispell to +6.76 at Havre). Average yearly temperatures were above long term at all locations, ranging from Conrad  $(+1.2^{\circ}F)$  to +4.2°F at Williston. Yields, for the 9 locations harvested averaged 80 bu/a {range 52 (Williston) to 108 bu/a (Huntley, sub-irrigated)}. Yields of named varieties, across the 9 harvested locations, ranged from a low of 58 bu/a (Jerry) to a high of 91 bu/a for SY Monument.

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# **Kronebusch Electric**

Ted Kronebusch Phone 1-800-464-5643 or (406) 278-7505 — Conrad, MT Coleoptile Length

Coleoptile length evaluation is performed in Bozeman under controlled (growth chamber) conditions. Twenty-five seeds per variety were planted in wetted vermiculite. After 15 days the coleoptile (sheath covering the emerging shoot that helps penetration to the soil surface) is measured. This test is replicated 3 times for each variety. Results from previous years are reported in Table 15. Long coleoptiles are generally longer than 3.5 inches, medium from 2.7-3.5 in, and short are under 2.7 in. Care should be taken not to plant short coleoptile varieties too deep.

Other Agronomic Characters

**CONTINUED ON PAGE A20** 

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John Deere 7700 combine	
White 9720 combine with 30-ft. auger header	\$10.000
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New Holland 971 header with Rake-Up pickup attachment	
MacDon 9352i with 972 header.	
New Holland H8080 swather with 419 header	
Spra-Coupe 4640 with 60-ft. booms.	
Spra-Coupe 4440 with 80-ft. boom	
Bourgault 950 sprayer, 100-ft. boom, 1000 gallon tank	
Flexi-Coil 67XL sprayer, 1500 gallon tank, 120-ft. booms	
Hardi SM50 pickup sprayer.	
Case 800 70-ft. x 12" spacing air drill.	\$80,000
Morris Maxum 49-ft. air seeder, 10" spacing, double shoot,	
behind tank.	<b>\$</b> 0000
Great Plains 293 45-ft. air seeder with 12" spacing	
Great Plains 283-62 air seeder, 45-ft. x 10" spacing	
Melroe 36-ft., 12" spacing drills.	
Bourgault 7200 harrow, 5/8" tines	\$52 000
Oliver 271 24-ft. disc.	
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Gysler 28-ft. duckfoot.	
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# Winter Wheat Variety Performance Summary in Montana

CONTINUED FROM PAGE A18

Table 2. List of public, private, and experimental hard winter wheat varieties.

Variety	Experimental Designation	Origin	Release Year	Pedigree
lic Varieties		100	-	and the second
Avery	CO11D174	Colorado	2015	TAM 112/Byrd
Bearpaw	MTS0721	Montana	2011	selection from a composite of 5 crosses: 99X96, DMS/Rampart// Pronghom/3/2*Rampart, 99X97, DMS/Rampart//Pronghom/3/ Rampart/4((MTW9805, Redwin/Rio Blanco//NuWest), 99X98, DMS/Rampart//Pronghorn/3/Rampart/4/(MT8513, NuWest/5/(TAM W- 103/Froid/4/Yogo//Turkey Red/3/Centurk, MT8030)); and 99X100, DMS/Rampart//Pronghorn/3/Rampart/6/(MT88113, Judith/5/ (MT8764, Crest/(VT1230, French male sterile line)/4/((P1178383/ Cheyenne//3*Tendoy, ID5011)/3/(ID5006, Norin 10/Staring// 2*Cheyenne, ID745101)))
Brawl CL Plus	CO06052	Colorado	2011	Teal 11A/Above//(CO99314, TX91V4931/ Halt)
Byrd	CO06424	Colorado	2011	TAM 112//(CO970547-7, Ike/Halt)
Colter	MT08172	Montana	2013	(Yellowstone sib, MT9982)*2/(BZ9W96-895, ped. unknown from male sterile pop.)
Cowboy	CO050322	Colorado, Wyoming	2012	(Yuma/T-57/4/(CO850034, NS14/NS603// Newton /3/Probrand 635)/5/ 4"Yuma /6/(NEWS12, KS91H174/RBL// KS91HW29/3/ N87V106), CO980829)/7/ TAM 111
Decade	MT0552	Montana; North Dakota	2010	selection from composite of 3 crosses:((Sumner sib, KS831936-3, (Plainsman V/Odesskaya 51)//(NE86501, Colt/Cody), N95L159, Wesley sib)/3/ CDC Clair, N95L159//(MT9602, NuWest/Tiber) and N95L159/4/ (MT9609, Froid/SD1287// Redwin/3/NuWest)
Freeman	NE06545	Nebraska	2013	(ABI86*3414/Jagalene//Karl 92, KS92-946-B-15-1)/3/ Alliance
Jerry	ND9257	North Dakota	2001	Roughrider//(ND7571, Winoka/NB66425)/3/ Arapahoe
Judee	MTS0713	Montana	2011	(Vanguard/Norstar//Judith dwf, 93X312E14)/3/ NuHorizo
Loma	MTS1224	Montana	2016	Yallowstone/5/((Lew/Tiber//Redwin, MTS92045)/3/2*Erhardt, MTS0112)/4/(MTS0125, selection from a composite of 4 crosses)
Northern	MT0978	Montana	2015	selection from a composite of 2 crosses: 00X248, (Yellowstone sib, MT9982)/4/((MT8709, Erhardt sib)/Nu/Vest//Erhardt, MTW0072)/3/ (NW97\$151, KSSB0192-3/NE89529) and 00X249, (Judith/(PI262605, Karagach, RWA resis.)/3/(S86-740, Norstar/Plainsman V //Ulianovka) MTW0047)/4/MTW0072/NW97S151
Rampart	MTS92042	Montana	1996	Lew/Tiber//Redwin
Warhorse	MTS0808	Montana	2013	selection from a composite of 3 crosses; 00X182, ((Froid/Winoka/7/ ((Sinvalocho/Wichita// Hope/Cheyenne /3/Wichita/4/Seu Seun 27, TX53 391-56-D8)/5/Westmont, MT6928)/8/ Trader, MT85200)/8/ Redwin, MT9908)/9/ Nuplains/6/(MTS9862, (NuWest/ Lovrin 24 /4/((Rego/Cheyenne, Sel, 39-18-7)// Winalta, MT7431)/3/(MT7115, Yogo/T, polonicum-70-5), MT91366)/5/ (MTS92137, Lew/Tiber//Redwin 00X183, Nuplains/MTS9862/4/ (MTW0047, Judith/(PI262605, Karagaci RWA resis.)/3/(S86-740, Norstar/ Plainsman V //Ulianovka)); and 00X184, Nuplains/MTS9862/5/(MTS0028, Vanguard/4/(Lew/Tiber//Redwin, MTSF1570)/3/ Norstar)
Yellowstone	MT00159	Montana	2005	F <sub>2</sub> composite of Promontory/Judith and Judith- dwarf/Promontory

**Private Varieties** 

Broadview	LE1911	Alberta: Meridian Seeds LLC	2009	KS92WGRC15/CDC Kestrel//CDC Falcon
CDC Falcon	S94-4	Western Plant Breeders/Sask- atchewan	1999	Norstar*2/Vona//Abilene
Keldin	ACS55017	Peter Franck: Seed- Link Inc. Ontario,Canada, Westbred LLC	2011	Barenburg 235/Carlisle//TRX-A16-3-2
SY Clearstone 2CL	MTCL1077	Syngenta, Montana	2012	Yellowstone*4/3/MTCL01158/CDC Teal 11A//Jagalene
SY Monument	04BC574-2	Syngenta	2014	(KS891608-2-1-1/CM75113, F1/X920750-A-11-2, BC991149- 11)/3/(00x0090-4, W95091/W98-183
SY Sunrise	06BC796#68	Syngenta Seeds	2015	((X920709B-5-2)/KS90WGRC10//Ogallala, BC98337-10-53)/3/CDC Falcon, <u>06BC308</u> )/4/ ( <u>NE03458</u> , (McVey 78015/NE88521, NE95544)// W91-348/3/Millennium)
SY Wolf	BC01007-7	AgriPro, Syngenta	2010	((TAM-105/Veery sib, SWM1524)//TX84V2029, TX91V3308)/3/(W93-3 Wi88-052/W96-180), W99-331)/4/(97x0906-8, (Mesa/W89-328, W96- 180)/(W95-188, Karl 92/W98-232))
T158	T158	Trio Research. Inc., Limagrain LLC	2009	KS93U206//2*(T81, TAM 107/T213 sib)
WB3768	MTW08168	Montana, licensed to: WestBred LLC (Monsanto)	2013	selection from a composite of 2 crosses: 01X225, (Judith/(PI262605, Karagach, RWA resis,)/3/(S86-740, Norstar/ Plainsman V //Ulianovka) ,MTW0047)/4/ 2*(MT9982, Yeliowstone sib.) and 01X226, MTW0047/MT9982/(MT9989, Judith/Arapahoe)
WB4059CLP	BZ9WM07- 1516	WestBred- Monsanto:	2013	CDC Teal-11A/3/Pryor*2//(SWP 965-001, Grandin*2/(SF-4, Imi Fidel))
WB4483	BZ9W09-2212	WestBred- Monsanto:	2016	(solid stem)
WB4575	BZ9W09-2075	WestBred- Monsanto:	2016	(hollow stem)
WB4614	BZ9W07-2034	WestBred- Monsanto:	2013	BZ9W96-755-B/Pryor
WB4623CLP	BZ9WM09- 1663	WestBred- Monsanto:	2014	(B152/Rampart, DH990356, BZ9W02-2073)// Above/CDC Teal-11A.
WB-Quake	BZ9W05-2043	WestBred LLC (Monsanto)	2011	Rampart/Kestrel
lic Elite Lines				
	MTCL1131			Yellowstone*4/4/(Fidel/Tiber (IMI), MTCL01158)//CDC Teal 11A/3/Jagalene
	MT1138	1		(059E/Jagger/Pecos, W99-194)/3/ 2"Yellowstone
1	MT1257			selection from a composite of 2 crosses: 03X351, Yellowstone/ Krichal and 03X352, Krichaufl/7/( <u>MTS04114</u> , L'Govskaya 167/Rampart/6/(MT9409, Tiber/5/ (MT8030, TAM W-103/Froid /4/Yogo//Turkey Red /Oro/3/Centurk))
	MT1265			Yellowstone*4//(KS96WGRC40, KS93U69*2/TA 2397) (Lr41, wcm)
1.	MT1332		ŀ	selection from a composite of 3 crosses: 07X37, Yellowstone/4/(00X52E99, (Judith/SWM12099, 92X103E3)/3/- (MTR99101, Vanguard//Cltr2401/2*Judith)) /5/Yellowstone(340,233 = solid-stem markers), 07X38, Yellowstone'2/ 00X52E99, and 07X39, Yellowstone/ 00X52E99//(MT0686, (BigSky sib, MT9523)/(NE94653, Wahoo sib))
	MT1348			selection from a composite of 2 crosses: 04X494, (PI572290 = STARS 9303W = (Bobwhite/PI 149898), rwa2//Big5ky and 4X495, (Yellowstor sib, MT9982)/PI572290
1	MT1354	1		(Yellowstone low PPO plant seln., MT08184)//(Yellowstone low PPO pl seln., MT08188)/(MT08175, Colter sib)
	MT1356			(Yellowstone low PPO plant sein., MT08184)//(Yellowstone low PPO plant, MT08185)/(MT08177, Colter sib)
11	MTS1407			(Erhardt//Judith/CDC Kestrel, MT0097/8/ (selection from a composite o crosses - see pedigree, MTS0527)/7/(MTS0532, L'Govskaya 167/Rampart/6/(MT9409, Tiber/5/ (MT8030, TAM W-103/Frold /4/Yogo//Turkey Red /Oro/3/Centurk)))

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# Winter Wheat Variety Performance Summary in Montana

#### **CONTINUED FROM PAGE A20**

Test weight averaged 60.1 lb/bu across all locations. Kalispell (53.7 lb/bu, rain delayed harvest and stripe rust), Williston (57.4), and Havre (59.9) were below 60 lb/ bu, while the other 6 locations were above.

Heading dates were earlier in 2016 than long term averages at 7 harvested locations where comparisons are available. Havre and Williston both at -12 days had the greatest differences, while the least change occurred at Huntley (-4 days).

Stripe rust at both Bozeman (average = 25%, range 2 - 87%) and Kalispell (average = 70%, range 22 - 99%) were a factor in yield reduction for highly susceptible varieties (Avery, Bearpaw, Broadview, Byrd, Cowboy, Decade, Jerry, and WB4059CLP).

There was sawfly cutting recorded at the Northern Seeds Carter/Ft. Benton site averaging 27%, ranging from 1 (Warhorse) to over 60% (Broadview, Byrd, and T158) of stems cut, across all entries.

Protein content averaged 11.1% across all locations (location range = 7.8 - 13.4%) tested. The range of named varieties across all locations was from a low of 10.0% (Avery) to a high of 11.8% (Brawl CL Plus). Increased rainfall and higher than average yields contributed to lower proteins at some locations.

Leading winter wheat varieties planted for 2016 were Yellowstone (18.8%), Judee (18.1%), Warhorse (10.0%), Brawl CL Plus (7.3%), Decade (5.0%), and Bearpaw (4.4%).

#### **Dwarf Smut (TCK)**

Dwarf smut (TCK) can be controlled with 'Dividend' seed treatment (see page 5). Dwarf smut or dwarf bunt (*Tilletia controversa* Kuhn) is a fungal disease that occurs in areas where winter wheat is subjected to prolonged snow cover or unfrozen ground. The planting of dwarf smut resistant varietresistant) is a practical means of control. The amount of wheat lost each year because of dwarf smut is small in relation to

ies (Promontory and SY Clearstone 2CL are

cause of dwarf smut is small in relation to the state's total crop, but individual operators may experience severe losses in heavily infested, localized areas.

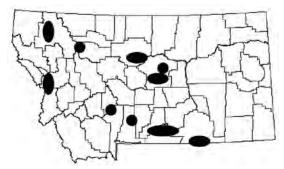


Fig. 2. Known areas of dwarf smut (TCK) infestations.

If you farm in the vicinity of one of the shaded areas in the map (Figure 2.), you would be well advised to observe closely your winter wheat crop and consider using seed treatment.

# What Recommendation by MAES Means

Classification of winter wheat varieties is determined on a yearly basis by the Montana Agricultural Experiment Station (MAES) Wheat Variety Release Committee. This 16 member committee is composed of one wheat breeder, one cereal or forage quality scientist, one plant pathologist, one entomologist, one weed scientist, one cropping systems specialist, six Research Center agronomists, one manager from both the Montana Foundation Seed program and the Montana Seed Growers Association, one Montana Wheat and Barley Committee member and one representative of the Montana Agricultural Experiment Station Advisory Board.

#### **CONTINUED ON PAGE A28**

Table 2. List of public, private, and experimental hard winter wheat varieties.

Variety	Experimental Designation	Origin	Release Year	Pedigree
	MT1443			selection from a composite of 2 crosses: 06X165, Yellowstone*2/ (MTW0590, selection from a composite of 2 crosses: 00X3, ((MT8709, Erhardt, sib)/NuWest// Erhardt, MTW0072)/3/(NW978151, KSSB0192- 3/NE89529) and 00X4, (MT8713, Erhardt sib)/NuWest, MTW9911)// NW97S151) and 06X166, (NuWest//(SD88191, Brule/Dawn), MTW01133/3/Yellowstone/MTW0590
	MT1444			selection from a composite of 2 crosses: 06X165, Yellowstone*2/ (MTW0590, selection from a composite of 2 crosses: 00X3, ((MT8709, Erhardt sib)/NuWest// Erhardt, MTW0072//3/(NW975151, RSS80192- 3/NE89529) and 00X4, (MT8713, Erhardt sib)/NuWest, MTW9911)// NW97S151) and 06X166, (NuWest/(SD88191, Brule/Dawn), MTW01133/3/Yellowstone/MTW0590
	MT1446			selection from a composite of 2 crosses: 06X165, Yeliowstone*2/ (MTW0590, selection from a composite of 2 crosses: 00X3, ((MT8709, Erhardt sib)/NuWest// Erhardt, MTV0072)/3/(NW975151, KSSB0192- 3/NE39529) and 00X4. (MT8713, Erhardt sib)/NuWest. MTW9911)// NW975151) and 06X166, (NuWest//(SD88191, Brule/Dawn), MTW01133/3/Yellowstone/MTW0590
	MT1460		1	(Yellowstone (Low PPO) plant sein, MT08184)//(Yellowstone (Low PPO plant sein, MT08188/(MT08175, Colter sib)
	MT1485			selection from a composite of 5 crosses: D6X272, Yellowstone/ (MT06B/ a composite - see pedigree); 06X276, Yellowstone/ (MT06102, , a composite - see pedigree); 06X278, Yellowstone/7/ (MT06110, (Arapañoe/3/Brule//Hiplains/ Newton, SD93528)/6/ (MT9409, Tiber/5/ (TAM W-103/Froid/A/Yogo//Turkey Red/ Oro/3/Centurk, MT8030))); 06X282 Yellowstone/3/ (MT06123, '2174'/(MT9440, BigSky sib)//BigSky and 06X285, Yellowstone/7/ (96X168E1, (Nuwest/4/ (MT88001, Sawmont/Tendoy /3/Yogo// Norin 10/Brevor) /5/(MT7863, Froid/Winoka Centurk), MTS9720)/6/(PI 191303, Alba = Belgian variety)/Elkhorn);
	MT1471			selection from a composite of 2 crosses: 06X304, Yellowstone/ NuDakota; 06X306, (Erhardti Halt, MTR0441)//NuDakota, and 06X308; ((Tiber/5/(MT8030, TAM W-103/ Froid /4/Yogo//Turkey Red /Oro/3/ Centurk), MT9409)/6/(MT9659, SMN82184/ SMN82140// Rocky/ Tiber)/7/Jerry, MT06125)/8/NuDakota
	MT1478			selection from a composite of 2 crosses: 07X15; Yellowstone(L)'3 /4/96X313E37-1, HYB59F009/(S86-736; Norstar*2/Vona) /3/ BigSky) and 07X14, same pedigree as 07X13
	MT1488			selection from a composite of 2 crosses: 03X316, ((Karagach, RWA resis., PI262605)/4/ (MT7863, Froid/Winoka// Centurk)/3/ Redwin, MTR00116)/10/ (MT0241, (WWP4394/NuWest /4/(Rego/ Cheyenne// Winalta, MT7431)/3/(MT7978, Centurk/Marias), MT91192)/9/(NuWest/ Redwin//Rio Blanco, 88X9D105-6)/8/ (((Carstens V/A, intermedium// Lathrop, Cltr15092)/3/T, speltoides/4/Fletcher/5/ 5*Centurk, Cltr17884)*4/8/Karl, KS93WGRC27) /7/(MT9415, Judith/Yogo)) /11/CD0 Falcon and D3X317, (Erhardt// Judith/CDC Kestrel, MT0097) /3/ MTR00118/ MT0241
	MTW1491		1	(Yellowstone (Low PPO) plant sein, MT08184)//(Yellowstone (Low PPO) plant sein, MT08188/(MT08175, Colter sib)
ate Elite Lines	C		1.60.4	
	PSB13NEDH-	nagrain		

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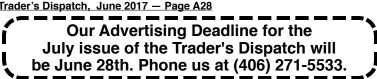
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# Winter Wheat Variety Performance **Summary in Montana**

### **CONTINUED FROM PAGE A22**

A variety is eligible for recommendation when a minimum of 16 location-years of performance data is obtained from the Montana State University statewide winter wheat performance trials and test results indicate that the variety is equal to or superior in overall merit to specified check cultivars and has end-use quality equal to or exceeding currently recommended varieties. For varieties originating from private companies, recommendation is considered only at the request of the company when adequate data is available.

Recommendations of varieties are considered on a case by case basis. Yield performance of a variety is an important criteria, but also considered are test weight, grain protein content, winter survival, pest resistance and end-use quality data. In general, yield needs to be at least equal to currently recommended varieties in a particular district, unless the variety is being recommended for a specific purpose, e.g. winter hardiness, sawfly resistance. For example, Rampart, which is not competitive in the absence of wheat stem sawfly, is recommended in Districts 3, 4 and 5 for sawfly areas only. Only six varieties are recommended for the Northeast district due to severe winter conditions and a higher probability of stem rust in this region. Thus varieties recommended for District 6 must have higher winter survival and stem rust resistance.

If a serious defect in the variety is identified during performance testing, the variety will not be recommended. Examples of defects resulting in non-recommendation include: high probability of winter-kill, low

Table 3. HARD WINTER : District 1- Kalispell - Dryland (High Rainfall)

Cultivar/Line	Gra	in Yield (	bushels/a	cre)	Test	Headi	ng Date	6 Data Plant	Lodg-	Stripe	Protein
	2016	2015-16	2014-16	2013-16	weight		Calendar		ing	rust	
		2 yr	3 yr	4 yr	lb/bu	from Jan1		in	9%	%	%
Avery +	38.0	-	-	-	42.9	147.6	27-May	41.2	Ô	95	13.1
Bearpaw *	16.4	48.9	72.2	61.9	39.4	148.5	28-May	37.5	1	96	15.4
Brawl CL Plus +	54.4	72.5			43.3	143.2	22-May	41.0	0	84	13.9
Broadview (P)	27.2	47.3	74.5	71.2	50.1	151.2	30-May	35.6	7	88	14.4
Byrd +	20.6	53.3			38.6	144.8	24-May	38.6	0	95	13.9
BZ9W09-2075 (WB4575) P++	21.8	22.9			46.1	151.7	31-May	35.0	2	96	13.9
BZ9W09-2212 (WB4483) P++	88.9				56.8	153.3	1-Jun	37.3	7	68	12.3
CDC Falcon (P)+	43.5	66.4	85.9	83.6	50.8	150.2	29-May	37.1	3	96	12.6
Colter +	141.9	146.6	148.7	144.0	58.6	151.0	30-May	43 1	1	38	11.9
Cowboy +	45.5	68.6	93.1	87.7	47.3	148.5	28-May	39.3	0	94	11.7
Decade +	18.5	43.9	67.0	60.8	42.9	149.8	29-May	38.1	20	93	14.2
Freeman +	80.1	100.2	115.6		48.5	139.3	18-May	42.0	20	68	12.1
Jerry	18.2	38.9	66.2	60.4	44.1	150.8	30-May	42.7	4	97	14.5
Judee +	118.8	122.1	126.9	121.8	58.3	148.9	28-May	41.2	12	27	12.2
R Keldin (P)+	101.1	111.7	122.5	C. 201	55.6	149.2	28-May	39.2	0	82	11.3
R Loma ++	128.0	136.4	137.5		57.4	150.9	30-May	40.1	43	35	11.8
MT1138	132.3	137.9	142.3	139.4	57.0	151.7	31-May	43.8	0	73	11.2
MT1257	112.3	128.3	133.9	1000	56.5	150,3	29-May	43.6	0	B4	11.6
MT1265	130.0	134.9	139.6		57.3	152.2	31-May	44.7	13.	67	10.9
MT1332	127.8	136.3			57.4	151.6	31-May	44.5	12	76	11.5
MT1348	132.2	132.6			57.7	149.1	28-May	43.1	70	56	11.6
MT1354	132.0	143.3			57.9	152.0	31-May	43.8	0	80	11.3
MT1356	120.9	135.3			56.7	151.7	31-May	43.2	3	71	11.1
MT1443	106.7				56.2	151.6	31-May	40.8	0	82	11.1
MT1444	136.1				57.9	151.2	30-May	43.8	0	70	11.1
MT1446	121.1				57.0	147.9	27-May	42.6	11	61	11.2
MT1460	110.6				57.1	151.0	30-May	42.7	0	76	11.5
MT1465	135.0				58.5	150.2	29-May	39.5	0	37	11.8
MT1471	148.9				59.5	151.7	31-May	43.5	0	35	12.6
MT1478	96.6				53.9	148.5	28-May	43.4	0	91	11.3
MT1488	135.1				60.0	152.4	31-May	40.8	36	22	12.3
MTCL1131	121.6	131.1	138.7	134.2	55.8	151.5	31-May	45.4	0	87	11.0
MTS1407	88.1	14 M	No. of Concession, Name		53.0	151.1	30-May	36.8	0	70	12.6
MTW1491 (HWW)	138.8				59.6	151.2	30-May	43.7	22	51	10.9
Northern +	133.7	132.3	138.4	135.1	56.8	152.6	1-Jun	43.0	14	52	11.7
PSB13NEDH-14-71 (P)	77.9				50.9	143.5	23-May	38.7	0	93	12.5
Rampart	70.4	85.7	99.1	95.8	52.3	150.7	30-May	44.7	32	83	12.9
SY Clearstone 2CL (P)+	117.2	124.6	131.8	128.3	54.9	150.6	30-May	43.6	0	86	11.4
SY Monument (P)+	127.0	124.3			54.9	148.5	28-May	40.9	0	33	12.3
SY Sunrise (P)+	130.6	121.0			57.7	144.1	23-May	37.3	0	38	12.0
SY Wolf (P)+	98.6	102.2	113.9	114.2	52.2	145.6	25-May	41.0	0	50	12.6
T158 (P)	115,6	117.3	118.4		56.1	140.9	20-May	39.3	13	49	12.7
Warhorse +	126.7	129.6	129.5	126.0	59,7	150.9	30-May	41.8	15	37	13.0
WB3768 (HWW, P)+	126.7	131.3	137.9	133.8	57.7	150.6	30-May	46.4	12	82	11.0
WB4059CLP (P)+	34.6	48.1	61.0		43.4	144.0	23-May	32.5	0	99	14.3
WB4614 (P)+	64.2	85.6	103.3		51.2	149.9	29-May	37.5	1	82	13.6
WB4623CLP (P)+	145.1	130.5			59.2	150.3	29-May	41.9	14	29	13.8
R WB-Quake (P)+	117.5	122.5	122.5	119.5	58.7	153.3	1-Jun	41.3	6	67	11.5
R Yellowstone +	94.9	117.7	125.3	125.0	55.9	150.4	29-May	42.6	1	86	11.1
Average	97.3	106.0	113.3	107.9	53.7	149.4	28-May	41.0	8.0	69.5	12.3
LSD (0.05)	10.2	31.4	29.0	23,4	1.9	2.3		2,2	16.6	15.6	0.6
C.V.	6.5 n a column	14.6	15.6	15.3	2.0	0.9		3.0	125.1	13	2.7

grain protein, low baking quality, etc.

Lack of variety recommendation by MAES may occur due to a decision by the originating company not to test the variety in statewide performance trials. In this case the lack of recommendation is due to inadequate or no data rather than a specific varietal defect.

Montana produces primarily hard red winter and hard red spring wheats. Continuous improvement of the milling and/or baking quality of Montana grown winter wheat is one of many objectives of the Montana Agricultural Experiment Station breeding and cultivar development program. All varieties recommended by the Montana Agricultural Experiment Station have been evaluated and found to be acceptable for milling and baking performance by the Cereal Quality Laboratory at Montana State University.

The quality of Montana recommended varieties, if grown and marketed within their respective classes, is acceptable by domestic users. Montana's future as a hard red and hard white winter wheat producing state for both the domestic and export markets rests on the quality of the product.

### **Producing Winter Wheat**

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bold = indicates highest value within a column

bold = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

R = Recommended Variety; (P) = Private Variety; + = Protected Variety; ++ = PVP Pending

(HWW) = Hard White Winter Wheat

**CONTINUED ON PAGE A30** 

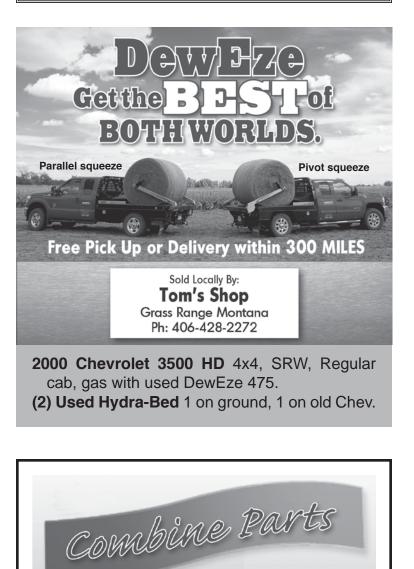
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# Winter Wheat Variety Performance Summary in Montana

### CONTINUED FROM PAGE A28

Dwarf smut (bunt) can be controlled with difenoconazole. Dividend® contains this compound and is available in Montana. If you farm in a dwarf smut area contact your seed dealer or chemical representative for more information about this seed treatment. See page 4 for known areas of dwarf smut infestations.

Diseases are best controlled when all seeds are coated with a seed treatment. Do not over-treat-- Follow recommendation of manufacturer of product as to rate.

Truck-mounted seed treaters, which apply the fungicide as the seed is augered into the drill box, do a good job of treating if operated according to manufacturer's specifications.

Drill box treatments are not effective for general use.

When using any pesticide materials, read the information on the label as to rate of application, specific uses, methods of handling, precautions, etc.

Seeding Rate and Date

The following rates and dates for seeding are general (Figure 3). The heavier seeding rate, where indicated, is applicable to plump seed of high test weight (above 60 lbs/bu) or for seed having a kernel size larger than normal for most other varieties. The lighter rates are for the smaller seeded varieties or when test weight is below normal for larger seeded varieties. Seeding rates may be lower if adequate nitrogen and phosphorus amounts are applied at planting.

Winter wheat seed lots may vary in the number of seeds per pound depending

Table 4. HARD WINTER : District 2-- Bozeman - Dryland (Moderate Rainfall)

TABLE 4. TIARD WINTER :	District 2 Bozeman - Dryland (Moderate					2016 Data						
Cultivar/Line		Grain Yield (	bushels/ac	re)	Test	Headir	ng Date	Plant	Stripe	Proteir		
	2015	2014-15	2013-15	2012-15	weight		Calendar		rust			
		2 yr	3 yr	4 yr	lb/bu	from Jan1		in	%	%		
Avery +	69.5				59.6	159.7	8-Jun	35.5	77	11.2		
Bearpaw +	46.9	44.5	60.6	66.1	60.9	161.3	9-Jun	33.4	72	14.5		
Brawl CL Plus +	81.3	76.3			61.1	157.0	5-Jun	34.4	76	13.7		
Broadview (P)	41.8	42.4	60.6	65.0	60.0	163.1	11-Jun	32.8	83	11.9		
Byrd +	52.0	54.6			58.6	159.3	7-Jun	33.4	70	13.2		
BZ9W09-2075 (WB4575) P++	43.0				61.0	161.9	10-Jun	32.2	75	13.3		
BZ9W09-2212 (WB4483) P++	51.5	<b>FF 0</b>	CO 4	74.4	59.6	165.1	13-Jun	34.5	40	13.7		
CDC Falcon (P)+ R Colter +	54.5 89.3	55.0 88.2	68.4 92.7	71.4 91.5	59.3 59.3	161.3 164.1	9-Jun 12-Jun	34.2 36.9	42 12	12.8 15.0		
Cowboy +	68.2	oo.∠ 62.3	9 <b>2.1</b> 75.5	79.2	61.2	159.1	7-Jun	38.9 33.9	80	12.8		
Decade +	51.1	48.9	64.1	79.2	59.3	161.4	9-Jun	33.4	57	13.5		
Freeman +	89.0	86.4	91.2	70.4	58.8	155.1	3-Jun	36.7	6	12.6		
Jerry	44.1	43.1	61.7	66.1	60.1	163.0	11-Jun	38.0	66	13.6		
Judee +	68.3	66.5	77.2	78.3	59.7	161.1	9-Jun	35.9	15	14.6		
R Keldin (P)+	85.5	85.3	94.5		59.4	160.9	9-Jun	34.5	17	13.0		
R Loma ++	92.0	91.0	95.3		60.9	163.9	12-Jun	33.3	10	11.4		
MT1138	94.0	90.5	97.8	95.8	59.9	163.4	11-Jun	39.8	10	13.7		
MT1257	86.4	87.1	95.4		59.7	162.3	10-Jun	37.9	9	15.2		
MT1265	105.7	93.9	<u>99.3</u>		61.1	163.9	12-Jun	39.2	6	12.5		
MT1332	95.9	92.3			60.7	163.0	11-Jun	39.4	6	12.8		
MT1348	97.3	93.1			60.1	161.1	9-Jun	37.9	8	12.5		
MT1354	86.7	84.7			60.7	163.3	11-Jun	38.1	8	12.9		
MT1356	86.5	86.1			60.4	162.8	11-Jun	37.6	8	12.8		
MT1443	74.5				60.9	163.6	12-Jun	36.8	14	12.8		
MT1444	89.4				59.4	161.9	10-Jun	37.7	7	14.5		
MT1446	89.6				61.3	162.7	11-Jun	37.6	12	12.6		
MT1460	91.6				60.7	162.7	11-Jun	36.0	13	12.3		
MT1465	88.3				60.3	162.1	10-Jun	33.8	7	14.0		
MT1471 MT1478	94.7 90.6				60.0 59.6	162.9 161.1	11-Jun 9-Jun	36.9 36.2	4 13	16.3 13.7		
MT1478 MT1488	90.8				61.8	163.6	12-Jun	35.7	10	12.9		
MTCL1131	90.9	88.0	94.4	93.3	60.7	163.9	12-Jun	39.1	12	13.5		
MTS1407	77.9	00.0	54.4	55.5	60.1	162.3	10-Jun	31.3	13	14.3		
MTW1491 (HWW)	108.1				62.1	163.3	11-Jun	38.9	10	12.7		
R Northern +	84.1	. 83.6	88.3	89.0	59.5	163.8	12-Jun	35.8	14	14.5		
PSB13NEDH-14-71 (P)	82.3				60.1	159.0	7-Jun	35.5	30	13.5		
Rampart	64.9	59.3	69.2	70.5	62.3	161.7	10-Jun	38.9	28	13.3		
SY Clearstone 2CL (P)+	90.1	86.4	93.0	90.2	58.8	162.3	10-Jun	38.8	8	12.9		
SY Monument (P)+	92.9	89.4			57.3	160.8	9-Jun	36.3	2	13.6		
SY Sunrise (P)+	92.3	94.4			60.8	158.3	6-Jun	33.5	12	13.5		
R SY Wolf (P)+	80.8	82.0	88.9	91.1	60.7	160.1	8-Jun	35.3	16	14.4		
T158 (P)	104.8		98.2		<u>63.1</u>	156.2	4-Jun	34.2	2	13.0		
Warhorse +	77.5	73.7	79.6	81.6	59.5	162.0	10-Jun	35.5	5	14.2		
WB3768 (HWW, P)+	82.8	81.1	89.1	90.0	60.9	164.8	13-Jun	39.4	6	13.1		
WB4059CLP (P)+	52.8	54.5	65.6		60.8	157.5	6-Jun	32.8	87	14.8		
WB4614 (P)+	67.2	64.6	75.6		60.4	158.4	6-Jun	35.4	23	13.4		
WB4623CLP (P)+	98.4	85.6	70.0	77.0	63.0 61.2	160.9	9-Jun	35.4	4	13.0		
R WB-Quake (P)+ R Yellowstone +	77.3	71.1	78.3	77.9	61.3	162.8	11-Jun	34.2	17	14.2		
R Tellowstone +	95.1	89.8	96.0	95.6	60.4	163.0	11-Jun	39.9	15	13.1		
Average	79.9	76.4	82.7	81.3	60.3	161.6	10-Jun	36.0	25.2	13.4		
LSD (0.05)	12.9	9.7	14.4	12.3	1.4	1.7		2.1	8.3			
C.V.	9.1	6.2	10.6	10.6	1.3	0.6		3.3	19.5			

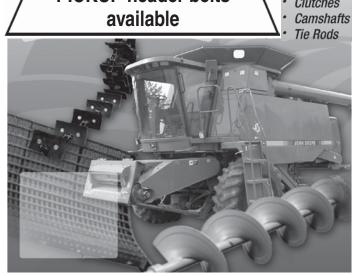
on the ratio of large-to-small seeds in a seed lot. The average is approximately 15,000 seeds per pound. A precise count of the number of seeds per pound should be made on your seed lot to help calibrate your drill. You can also calculate how many pounds of seed you will need to plant an acre.

Districts	Dryland	Irrigated	Date of Seeding
5,6 1,2,3,4	30-60 30-60 (10-20 seeds/sq. ft.)	60-75 60-75 (20-25 seeds/sq. ft.)	Sept. 1-15 Sept. 10-25

Figure 3. Seeding rate (lb/acre) and date for winter wheat

As to seeding date -- DO NOT SEED TOO EARLY in areas where root rot diseases are prevalent. In areas where Cephalosporium stripe, wheat streak mosaic virus or other root rot diseases have caused losses, delay seeding until the soil temperature in the seed zone will stay below 55oF except for brief periods during the day. In the southern half of Montana, this is usually September 10 to 20. In Districts 5 and 6, plant between September 1 and 15. Cooler soil temperatures slow root development and reduce the probability of winter root injury and invasion by soilborne organisms. To reduce the incidence of root and foot rots, plant winter wheat on land previously seeded to other crops such as barley, oats or spring wheat. Extreme seeding delay, however, reduces seedling vigor and increases chances of winter-kill.

#### **CONTINUED ON PAGE A40**





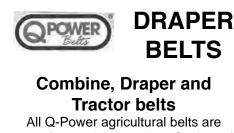
bold = indicates highest value within a column

bold = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

R = Recommended Variety; (P) = Private Variety; + = Protected Variety; ++ = PVP Pending

(HWW) = Hard White Winter Wheat

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\* CRP Mixes \*

# Winter Wheat Variety Performance **Summary in Montana**

**CONTINUED FROM PAGE A30** 

#### Seeding Depth

Set the drill to place the seed 1 to 2 inches below the soil surface. Deeper seeding reduces tillering and lowers crop yields. With the furrow drills, wind-driven soil particles settle in the furrows covering the seed deeper than desired.

Yield in Winter Wheat as Influenced by Percent Stand

During periods of winter injury farmers are frequently faced with a decision as to whether or not a field should be torn up and re-seeded. A 40 to 50 percent winter wheat stand, if general over field, may produce as much as re-seeded spring wheat. Thinner stands will likely demand more attention for weed control.

The guidelines for evaluating winter wheat stands are to determine the average number of healthy plants per square yard. We suggest making a square frame out of 3/8 inch rod. Walk the field in a zigzag pattern counting at ten random locations.

Fields that have 80 or more plants per square yard will probably produce more than if replanted to spring wheat (information taken from 1995 Master's Thesis, "Critical Overwintering Plant Population for Successful Winter Wheat Production in Montana" by Doug Holen).

### **Additional Descriptive Information for** Winter Wheat Varieties

New for the 2017 Bulletin:

Avery-hard red winter wheat developed by Colorado and released in 2015. Avery is an early to medium heading, medium statured, white chaffed variety. Avery has average yield and below average test weight and protein. Avery is susceptible to stripe rust. Mill and bake characteristics, under Montana conditions, have not been determined. PVP, Title V has been issued (Certificate #201600244). Avery will not be in the Montana Intrastate Winter Wheat *Test for 2017.* 

WB4483- hard red winter wheat developed by WestBred/Monsanto in 2016. WB4483 is solid stemmed, late maturing, short to medium statured wheat, with white chaff. WB4483 has slightly below average yield and average test weight and protein. WB4483 is moderately susceptible to stripe rust. Mill and bake characteristics, under Montana conditions, have not been determined. PVP, Title V is pending (Certificate #201600380).

WB4575 - hard red winter wheat developed by WestBred/Monsanto in 2016. WB4575 is a medium maturing, short to medium statured wheat, with white chaff. WB4575 has below average yield and above average test weight and protein. Avery is susceptible to stripe rust. Mill and bake characteristics, under Montana conditions, have not been determined. PVP, Title V is pending.

#### **CONTINUED ON PAGE A42**

	• • • • • • • • • • • • • • • • • • •	***	Test not p	lanted in				
		100		1 · · · · · · · · · · · · · · · · · · ·		2016 Data		
Cultivar/Line		field (bushels/aci	re)	Test	Headir	ng Date	Plant	Protein
	2016 1/	2014//16	2013//16	weight	Ordinal	Calendar	height	
	1y	2у	Зу	lb/bu	from Jan1		in	%
Avery +	122.5			62.0	154 0	2-Jun	41.3	10.6
R Bearpaw +	95.0	90.8	81.1	61.6	156.0	4-Jun	39.6	11.5
Brawl CL Plus +	108.8			63.6	150.4	29-May	39.7	11.4
Broadview (P)	94.4	85.1	78.7	61.3	156 1	4-Jun	40.3	11.2
Byrd +	108.8			62.0	152.5	1-Jun	40.5	10.7
BZ9W09-2075 (WB4575) P++	97.7			62.6	155.9	4-Jun	37.1	11.7
BZ9W09-2212 (WB4483) P++	107.4			61.8	158.1	6-Jun	39.2	10.7
CDC Falcon (P)+	102.6	95.6	86.1	60.9	154.6	3-Jun	37.9	11.3
R Colter +	115.4	107.5	93,9	61.7	157.8	6-Jun	41.3	11.5
Cowboy +	116.1	103.3	94.5	62.0	154.3	2-Jun	41.3	10.4
R Decade +	97.7	91.6	84.8	61.5	155.0	3-Jun	39.8	11.1
Freeman +	103.7	100.3	404	59.3	152.1	31-May	39.0	12.2
Jerry	89.8	81.4	74.7	60.7	156.1	4-Jun	46.3	12.3
R Judee +	101.7	90.5	80.9	62.6	157.0	5-Jun	38.5	11.3
R Keldin (P)+	113.7	107.3		61.6	156.0	4-Jun	37.0	11.5
R Loma ++	110.5	102.5		62.2	156.9	5-Jun	38.2	10.9
MT1138	119.6	104.7	92.4	61.7	156.7	5-Jun	41.8	11.7
MT1257	114.0	106.9		61.2	156.3	4-Jun	42.9	10.7
MT1265	112.8	105.3		61.3	157.4	5-Jun	42.0	11.6
MT1332	118.8			61,8	157.5	6-Jun	41.1	11.5
MT1348	108.4			61.1	156.1	4-Jun	40.5	12.4
MT1354	115.2			62.4	157.5	6-Jun	41.4	10.7
MT1356	110.5			61.8	156.1	4-Jun	41.9	10.9
MT1443	111.6			61.8	157.2	5-Jun	39.4	11.3
MT1444	113.9			61.6	156.1	4-Jun	41.0	10.5
MT1446	110.4			61.6	157.2	5-Jun	38.5	11.8
MT1460	108.4			61,7	156 7	5-Jun	40.6	11.9
MT1465	112.0			62.3	155.9	4-Jun	37.2	11.0
MT1471	100.0			62.0	154_6	3-Jun	39.3	11.9
MT1478	107.4			61.3	154.0	2-Jun	41.5	11.6
MT1488	106.9			62.3	158.1	6-Jun	39.2	11.0
MTCL1131	113.1	104.3	90.5	61.7	156.8	5-Jun	41.7	11.6
MTS1407	101.6			62.3	158.1	6-Jun	34.9	12.0
MTW1491 (HWW)	114.8			62.3	157.1	5-Jun	40.5	11.0
R Northern +	117.5	108.3	94.8	61.8	158.9	7-Jun	39.9	11.7
PSB13NEDH-14-71 (P)	107 6	-		62.2	153.1	1-Jun	39.1	11.3
Rampart	87.7	82.6	72.9	61.9	156.0	4-Jun	43.7	12.9
SY Clearstone 2CL (P)+	112.5	106.7	92.4	61.3	156.3	4-Jun	42.4	11.1
SY Monument (P)+	113.4			61.1	154.5	6-Jun	39.7	11.1
SY Sunrise (P)+	106.4			62.4	154.0	2-Jun	33.7	11.1
R SY Wolf (P)+	117.9	108.6	93,9	62.9	154.3	2-Jun	37.5	11.7
T158 (P)	111.4	108.0		62.4	149.9	29-May	38.5	10.6
R Warhorse +	101.8	98.2	86.4	61.9	156.2	4-Jun	38.5	11.6
WB3768 (HWW, P)+	111.7	96.6	84.1	62.2	159.2	7-Jun	41.9	11.7
WB4059CLP (P)+	96.6	83.5		61.4	151.2	30-May	35.7	11.6
WB4614 (P)+	108.3	89.2		62.1	155.7	4-Jun	38.9	10.5
WB4623CLP (P)+	102.5			63.0	156.5	5-Jun	37.8	12.2
R WB-Quake (P)+	95.3	90.1	78.7	62.0	158.1	6-Jun	38.5	11.4
R Yellowstone +	110.2	104.8	91.7	61.5	157_1	5-Jun	40.3	12.1
Average	107.9	98.2	86.3	61.8	155.8	4-Jun	39.8	11.4
LSD (0.05)	7.8	11.6	9.7	0.7	1.6		1.7	1.0
C.V.	4.2	5.7	6.7	0.7	0.6		2.5	4.9

\* Other Items Available Upon Request \*



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bold = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

R = Recommended Variety: (P) = Private Variety: + = Protected Variety: ++ = PVP Pending

(HWW) = Hard White Winter Wheat

# **Winter Wheat Variety Performance Summary in Montana**

Table 6. HARD WINTER : District 4-- Moccasin - Dryland

**CONTINUED FROM PAGE A40** 

						2016 Data					
Cultivar/Line	G	rain Yield (I	bushels/acr		Test		ng Date	Plant	Protein		
	2016	2015-16	2014-16	2013-16	weight		Calendar	height			
		2 yr	3 yr	4 yr	lb/bu	from Jan1		in	%		
Avery +	61.6				61.3	160.0	8-Jun	32.0	6.7		
R Bearpaw +	55.0	56.5	54.2	55.2	62.3	160.9	9-Jun	30.9	8.0		
Brawl CL Plus +	59.0	54.6			<u>64.5</u>	157.1	5-Jun	31.7	7.7		
Broadview (P)	47.9	51.9	53.1	53.5	62.4	161.3	9-Jun	32.3	7.8		
Byrd +	63.0	62.2			61.1	158.8	7-Jun	32.2	7.3		
BZ9W09-2075 (WB4575) P++	61.5				64.1	159.2	7-Jun	30.8	8.0		
BZ9W09-2212 (WB4483) P++	54.3				61.6	162.3	10-Jun	32.8	8.4		
CDC Falcon (P)+	53.2	53.8	54.6	55.8	62.1	160.7	9-Jun	31.3	8.0		
R Colter +	67.5	62.7	62.7	62.0	61.8	161.5	10-Jun	33.3	7.5		
Cowboy +	67.4	65.0	62.6	62.4	61.0	160.5	9-Jun	32.6	7.4		
R Decade +	55.0	55.2	55.9	57.3	62.3	160.4	8-Jun	31.1	8.1		
Freeman +	63.2	59.3	59.5		59.9	157.0	5-Jun	31.3	8.0		
Jerry	55.4	57.3	55.3	56.1	61.4	160.7	9-Jun	34.4	7.8		
R Judee +	48.7	45.4	46.9	47.3	63.8	161.4	9-Jun	32.3	7.6		
R Keldin (P)+	68.5	65.0	62.2		62.5	161.1	9-Jun	34.0	7.2		
R Loma ++	58.2	56.3	56.7		62.2	162.3	10-Jun	29.8	7.7		
MT1138	71.0	<u>70.0</u>	<u>67.9</u>	<u>69.0</u>	61.8	161.4	9-Jun	34.1	7.7		
MT1257	64.1	66.1	65.8		61.7	161.0	9-Jun	33.3	7.4		
MT1265	65.9	61.4	61.3		61.5	161.5	10-Jun	33.7	7.8		
MT1332	68.7	63.8			62.1	161.7	10-Jun	34.2	7.8		
MT1348	65.8	62.7			62.8	160.0	8-Jun	32.1	7.3		
MT1354	62.3	59.3			62.7	161.6	10-Jun	34.3	7.7		
MT1356	64.1	60.4			62.0	161.3	9-Jun	33.0	8.0		
MT1443	58.6				62.5	161.6	10-Jun	31.8	7.9		
MT1444	66.7				61.8	161.4	9-Jun	33.9	7.4		
MT1446	55.8				62.8	161.5	10-Jun	31.6	7.7		
MT1460	68.1				62.1	161.4	9-Jun	33.9	8.1		
MT1465	<u>71.7</u>				62.3	161.5	10-Jun	30.3	8.1		
MT1471	58.9				63.0	161.6	10-Jun	32.2	7.9		
MT1478	62.5				61.5	160.8	9-Jun	33.4	7.8		
MT1488	61.3				62.6	161.9	10-Jun	31.3	8.0		
MTCL1131	63.4	63.0	63.5	65.5	61.9	161.4	9-Jun	35.3	7.4		
MTS1407	56.7				62.9	160.3	8-Jun	28.1	7.9		
MTW1491 (HWW)	65.1				61.8	159.7	8-Jun	33.4	7.1		
R Northern +	57.4	60.8	59.9	60.3	62.4	161.6	10-Jun	32.6	8.0		
PSB13NEDH-14-71 (P)	60.7				64.4	158.0	6-Jun	31.6	7.8		
Rampart	48.6	46.9	46.0	45.8	62.4	161.5	10-Jun	33.5	8.7		
SY Clearstone 2CL (P)+	65.6	61.3	61.3	63.7	61.4	161.1	9-Jun	34.2	7.8		
SY Monument (P)+	62.9	61.4			60.7	160.4	8-Jun	32.0	7.1		
SY Sunrise (P)+	61.2	58.5			63.2	159.2	7-Jun	28.3	8.0		
R SY Wolf (P)+	63.3	57.9	58.4	57.9	63.2	160.7	9-Jun	32.7	7.6		
T158 (P)	59.7	57.3	58.1		63.0	157.2	5-Jun	30.2	7.6		
R Warhorse +	63.6	57.8	55.8	56.9	61.8	161.4	9-Jun	32.1	8.3		
WB3768 (HWW, P)+	59.5	59.5	59.9	60.6	63.4	162.0	10-Jun	34.8	7.7		
WB4059CLP (P)+	61.9	55.4	54.1		62.1	158.5	7-Jun	30.0	8.0		
WB4614 (P)+	53.8	55.6	56.0		62.6	160.7	9-Jun	30.1	7.4		
WB4623CLP (P)+	54.7	51.2			63.8	161.8	10-Jun	30.2	8.2		
R WB-Quake (P)+	54.5	50.5	49.9	52.1	63.5	162.1	10-Jun	31.8	7.8		
R Yellowstone +	63.3	61.3	61.5	62.8	61.8	161.1	9-Jun	32.9	7.6		
Average	60.8	58.5	57.8	58.0	62.3	160.7	9-Jun	32.2	7.8		
LSD (0.05)	7.8	7.7	6.0	5.0	0.9	1.1		2.3			
C.V. bold = indicates highest value withi	7.4	6.5	6.3	6.0	0.7	0.4		4.2			

**bold** = indicates highest value within a column

**bold** = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05) R = Recommended Variety; (P) = Private Variety; + = Protected Variety; ++ = PVP Pending

(HWW) = Hard White Winter Wheat

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#### Varieties previously in bulletin:

Bearpaw – hard red winter wheat developed by the Montana Agricultural Experiment Station in 2011. Bearpaw is a white-glumed, solid-stem, semi-dwarf (*Rht1*) wheat with medium maturity. Bearpaw has average yield, test weight, and protein, and below average winter hardiness. Bearpaw is resistant to prevalent races of stem rust but susceptible to stripe and leaf rust. Stem-solidness of Bearpaw is most similar to Rampart. Bearpaw is a high PPO variety with above average milling and average baking properties. PVP, Title V option has been issued (Certificate #201200407).

Brawl CL Plus – hard red winter wheat developed by Colorado and released in 2011. Brawl CL Plus is an early maturing, medium short statured wheat, with white chaff. Brawl CL Plus has average yield and above average test weight and protein. Brawl CL Plus is susceptible to stripe rust. Brawl CL Plus is a high PPO variety with average mill and bake characteristics. PVP, Title V has been issued (Certificate #201200434). Additionally, the CLEARFIELD genes are patented.

Broadview – hard red winter wheat developed by the Lethbridge, Alberta winter wheat breeding program in 2009 and licensed to Meridian Seeds LLC. Broadview is a medium maturing, medium statured wheat, with white chaff. Broadview has above average yield, average test weight and protein, and excellent winter hardiness. Broadview is susceptible to stripe rust and resistant to stem and leaf rust. Broadview is a high PPO variety with average milling and baking properties, similar to CDC Falcon. *Broadview will not be in the Montana Intrastate Winter Wheat Test for 2017*.

Byrd – hard red winter wheat developed by Colorado and released in 2011. Byrd is an early maturing, medium short statured wheat, with white chaff. Byrd has average yield and test weight and below average protein. Byrd is susceptible to stripe rust. Byrd is a high PPO variety with average mill and bake characteristics. PVP, Title V has been issued (Certificate #201200432). Byrd will not be in the Montana Intrastate Winter Wheat Test for 2017.

CDC Falcon – hard red winter wheat developed by the Crop Development Center, Saskatoon, Saskatchewan and registered in 1998. Licensed to WestBred LLC. Superior stem and leaf rust resistance over all current winter wheat varieties in western Canada. High yield, good winter-hardiness, semidwarf, short strong straw, especially good for direct seeding and straight cut harvest. CDC Falcon is moderately resistant to stem rust and susceptible to stripe rust. It is rated as having acceptable milling and baking quality. CDC Falcon is protected under the Plant Variety Protection Act, but not the Title V option (Certificate #200800322). *CDC Falcon will not be in the Montana Intrastate Winter Wheat Test for 2017*.

**CONTINUED ON PAGE A50** 

# Words a plenty

The president of a prestigious corporation was invited to deliver the keynote speech at an industry convention. Wanting to impress his peers, he asked his public relations manager to write him a smart, punchy, memorable speech about twenty minutes long.

After the convention, the president returned to his office and demanded to this his public relations officer pronto. When the man entered, the president bellowed: "What's the big idea of giving me an hour-long speech? Most of the

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audience walked out before I was halfway finished!"

The staffer was puzzled. "I wrote a twenty-minute speech," the man said, "and I gave you the two extra copies you asked for."

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2012 John Deere 9560R, 2100 hours, PTO, big pump
\$215,000
<b>2012 John Deere 9460R</b> , 4250 hours, big pump, 3-pt., warranty
<b>1998 John Deere 9200</b> , 8700 hours, PowerShift, 3-pt.,
PTO\$38,000
John Deere 7920, 3800 hours, 746 loader \$85,000
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# Winter Wheat Variety Performance **Summary in Montana**

### **CONTINUED FROM PAGE A42**

Colter – is an awned, white glumed, high yielding hard red winter wheat to be released in fall 2013 by the Montana Agricultural Experiment Station. Colter is similar to Yellowstone for grain yield and most agronomic traits with the exception that Colter is about 0.5 lb/bu higher for test weight and has superior stem rust resistance relative to Yellowstone. Colter is moderately resistant to stripe rust, but susceptible to leaf rust. Colter has excellent milling and baking bread quality, similar to Yellowstone. PVP, Title V is issued (Certificate #201500029). Colter will not be in the Montana Intrastate Winter Wheat *Test for 2017.* 

Cowboy – is an awned, white glumed, high yielding hollow-stemmed public variety developed in in Colorado and jointly released in 2012 by Colorado and Wyoming. In limited testing in Montana, Cowboy has average test weight and below average protein and winter hardiness (= 2(0-5 scale, 5 = best). Cowboy is a medium to early heading variety with shorter than average plant height. Cowboy is susceptible to stripe rust, but resistant to stem rust. Milling and baking quality are below average in Montana tests. PVP, Title V has been issued (Certificate #201300476). Cowboy will not be in the Montana Intrastate Winter Wheat Test for 2017.

Decade - hard red winter wheat developed by the Montana Agricultural Experiment Station and released jointly with North Dakota (pending at publication) in 2010. Decade is an early to medium maturing reduced height wheat with white chaff. Decade is a high yielding wheat with good winter hardiness and medium to high test weight and protein. Decade is resistant to prevalent races of stem rust but very susceptible to stripe rust. Decade has excellent milling and baking quality. PVP, Title V has been issued (Certificate #201100096).

Freeman - hard red winter wheat developed by Nebraska and released in 2013. Freeman is an early maturing, medium short statured wheat, with white chaff. Freeman has average yield, below average test weight and average protein. Freeman is resistant to stripe rust. Freeman is a high PPO variety with below average mill and bake characteristics. PVP, Title V is pending (Certificate #201400398). Freeman will not be in the Montana Intrastate Winter Wheat Test for 2017.

Jerry - hard red winter wheat released by North Dakota State University in 2001. It is white-chaffed and awned and similar in maturity to Roughrider. Jerry has good winter hardiness and is a top yielder in areas where winterkill can occur. Jerry has average test weight and protein under Montana conditions. It has good resistance to prevalent races of stem and leaf rust, but is susceptible to stripe rust. Mixing properties and baking performance are equal to Roughrider. Jerry will not be in the Montana Intrastate Winter Wheat Test for 2017.

### CONTINUED ON PAGE A60



#### Table 7. HARD WINTER : District 5-- Conrad - Dryland

Cultivar/Line	G	rain Yield (	hushels/act	(e)	Test	Headir	2016 Data	Plant	Protein
Guidvan Eine	2016	2015-16	2014-16	2013-16	weight	Ordinal	0	height	TOten
	2010	2 yr	3 yr	4 yr	lb/bu	from Jan1	Galendar	in	%
Avery +	105.4	2.91	S M	+ ji	63.5	156.0	4-Jun	35.5	10.3
R Bearpaw +	95.4	81.2	B6.9	85.8	62.5	159.0	7-Jun	34.5	12.1
Brawl CL Plus +	93.2	89.5	60.5	00.0	63.9	153.0	1-Jun	35.3	13.3
R Broadview (P)	96.2	86.9	94.4	93.3	62.6	159.7	8-Jun	34.6	11.3
Byrd +	99.6	87.0	94.4	93.5	62.6	159.7	2-Jun	32.8	10.8
	99.0	07.0			64.4	157.3	5-Jun	32.3	12.1
BZ9W09-2075 (WB4575) P++									
BZ9W09-2212 (WB4483) P++	102.3	05.4		00.0	61.3	159.7	8-Jun	33.1	11.7
CDC Falcon (P)+	88.3	85.1	91.5	89.6	61.8	158.0	6-Jun 8-Jun	29.8	10.9
R Colter +	98.1	88.9	95.0	94.9	62.2	160.3		35.0	11.7
Cowboy +	101.7	92.7	99.9	99.4	60.2	157.3	5-Jun	33.9	10.1
R Decade +	95.7	84.3	92.7	91.9	62.4	157.7	6-Jun	34.8	11.5
Freeman *	86.4	87.9	94.1		60.8	154.7	3-Jun	31.8	11.8
Jerry	83.7	79.2	85.3	84.2	61.6	159.7	8-Jun	37.4	11.2
R Judee +	89.5	76.3	83.4	82.2	63.5	159.0	7-Jun	33.2	12.6
R Keldin (P)+	109.4	99.6	104.9		63.3	157.7	6-Jun	34.2	10.8
R Loma ++	96.1	88.4	94.9		60.2	161.7	10-Jun	34.0	11.9
MT1138	111.2	94.0	102.8	102.0	60.8	159.0	7-Jun	35.8	11.7
MT1257	94.8	88.6	98.6		62.1	159.0	7-Jun	35.7	12.6
MT1265	99.7	90.1	99.9		62,7	159,7	8-Jun	35.9	11.6
MT1332	97.0	92.2			62.3	159.0	7-Jun	36.1	11.6
MT1348	101.3	95.6			63.3	158.3	6-Jun	33.8	11.4
MT1354	104.4	88.5			62.2	160.3	8-Jun	34.7	11.8
MT1356	96.6	91.9			62.1	159.3	7-Jun	35.0	12.2
MT1443	102.0				63.7	160.3	8-Jun	35.8	11.8
MT1444	105.3				63.0	158,7	7-Jun	34.7	11.3
MT1446	95.0				63.3	160.0	8-Jun	34.0	11.6
MT1460	108.6				63.2	160.0	8-Jun	35.7	11.5
MT1465	104.2				62.6	158.3	6-Jun	32.7	118
MT1471	103.3				62.9	159.3	7-Jun	34.3	12.2
MT1478	99.9				63.0	158.0	6-Jun	34.2	11.5
MT1488	100.1				60.9	160.0	8-Jun	35.7	11.2
MTCL1131	103.3	96.2	102.0	102.3	62.4	160.0	8-Jun	37.1	11.8
MTS1407	101.7			TITLE	63.1	158.3	6-Jun	29.4	12.5
MTW1491 (HWW)	101.4				63.1	159.7	8-Jun	34.1	11.7
R Northern +	103.5	95.7	102.1	100.1	61.6	161.0	9-Jun	34.9	11.7
PSB13NEDH-14-71 (P)	92.0	55.7	102.1	100.1	62.7	155.7	4-Jun	32.1	12.0
Rampart	91.3	75.4	83.5	81.5	62.4	159.7	8-Jun	38.1	13.0
SY Clearstone 2CL (P)+	97.7	90.4	96.4	96.1	62.7	157.7	6-Jun	35.6	11.8
SY Monument (P)+	111.2	97.6	30.4	30.1	61.9	158.0	6-Jun	33.8	10.9
SY Sunrise (P)+	90.6	86.5			63.5	155.7	4-Jun	30.5	11.8
			104.0	100 0	and an				
R SY Wolf (P)+	109.5	100.2		100.8	64.5	157.3	5-Jun	32.8	11.4
T158 (P)	95.5	89.5	93.1	70.0	64.0	153.0	1-Jun	32.0	11.8
R Warhorse +	84.6	71.4	78.2	78.6	62.1	159.3	7-Jun	31.6	12.1
WB3768 (HWW, P)+	98.8	86.9	97.1	97.4	62.1	161.0	9-Jun	37.8	11.7
WB4059CLP (P)+	88.7	77.1	73.8		62.7	153.3	1-Jun	31.4	12.9
WB4614 (P)+	107.4	91.5	94.4		63.6	157.3	5-Jun	33.3	11.6
WB4623CLP (P)+	96.6	81.9	Carlo I		62.3	159.0	7-Jun	33.1	12.6
R WB-Quake (P)+	87.9	71.1	79.8	79.3	63.2	160.7	9-Jun	33.0	12.3
R Yellowstone +	102.3	92.7	100.9	99.6	61.9	156.7	5-Jun	36.2	11.7
Average	98.5	87.7	93.4	92.2	62.5	158.3	6-Jun	34.1	11.7
LSD (0.05)	11.9	13.0	10.5	6.1	1.7	1.8		2.0	0.8
C.V.	7.0	7.3	6.9	4.7	1.5	0.7		3.3	3.8

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bold = indicates highest value within a column

bold = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

R = Recommended Variety; (P) = Private Variety; + = Protected Variety; ++ = PVP Pending

(HWW) = Hard White Winter Wheat

<u> Trader's Dispatch, June 2017 – Page A60</u>

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# Winter Wheat Variety Performance Summary in Montana

### CONTINUED FROM PAGE A50

Judee – hard red winter wheat developed by the Montana Agricultural Experiment Station in 2011. Judee is a white-glumed, solid-stem, semi-dwarf (*Rht1*) wheat with medium maturity. Judee has average yield, test weight, and protein, and below average winter hardiness. Judee is susceptible to prevalent races of stem and leaf rust but resistant to stripe rust. Stem-solidness of Judee is most similar to Genou. Judee is a high PPO variety with average mill and above average bake properties. PVP, Title V has been issued (Certificate #201200161).

Keldin – hard red winter wheat developed by Peter Franck (Germany) and released by WestBred in 2011. Keldin is a medium maturing, medium short statured wheat, with white chaff. Keldin has above average yield and test weight and average protein. Keldin is resistant to stripe rust. Keldin is a high PPO variety with average mill and bake characteristics. PVP, Title V has been issued (Certificate #201300462).

Loma – hard red winter wheat developed by the Montana Agricultural Experiment Station and available to growers in fall

### Table 8. HARD WINTER : District 5-- Havre - Dryland

2016. Loma is a semi-solid stemmed (similar to Genou), medium-late maturing, medium short statured wheat, with white chaff. Loma has above average yield and average test weight and protein. Loma is resistant to both stripe and stem rust. Loma is a medium low PPO line with above average mill and bake. PVP, Title V will be applied for.

Northern – hard red winter wheat developed the Montana Agricultural Experiment Station and available to growers in fall 2015. Northern is a medium-late maturing, medium-short statured wheat, with white chaff. Northern has average yield (similar to Yellowstone and Colter), average test weight, and average protein. Northern is resistant to both stem and stripe rust. Northern is a low PPO variety with average milling and average baking properties. PVP, Title V has been issued (Certificate #201600092).

Rampart – Released by the Montana Agricultural Experiment Station in 1996. It is an awned, red chaffed, solid-stemmed hard red winter wheat variety. The kernel is long with a sloping back and a heavy brush.

#### **CONTINUED ON PAGE C30**

							2016 Data		
Cultivar/Line	G	irain Yield (	bushels/ac	re)	Test	Headin	ng Date	Plant	Protein
	2016	2015-16	2014-16	2013-16	weight		Calendar	height	
		2 yr	З уг	4 yr	lb/bu	from Jan1		in	%
Avery +	103.3				59.2	153.8	2-Jun	41.6	9.3
R Bearpaw +	64.1	62.1	59.2	61.6	573	156.1	4-Jun	36.1	10.4
Brawl CL Plus +	89.7	71.0			61.0	149.1	28-May	41.1	11.1
R Broadview (P)	83.4	76.5	71.7	71.1	59.4	156.5	5-Jun	40.2	11.0
Byrd +	101.8	86.2	0.040	10.100	58.8	150.1	29-May	40.3	10.1
BZ9W09-2075 (WB4575) P++	75.8				59.3	155.5	4-Jun	38.0	10.1
BZ9W09-2212 (WB4483) P++	87.6				59.1	158.2	6-Jun	37.8	10.2
CDC Falcon (P)+	87.3	76.8	71.2	68.0	59.8	155.5	4-Jun	37.6	10.1
R Colter +	94.7	79.9	73.6	71.2	59.4	158.1	6-Jun	38.7	10.2
Cowboy +	99.4	85.6	78.9	79.9	59.0	155.2	3-Jun	39.4	10.2
R Decade +	80.7	70.1	65.4	65.9	57.8	155.9	4-Jun	38.6	10.0
Freeman +	110.5	84.0	74.4	1.2.2	59.5	149.5	29-May	41.1	10,1
Jerry	69.9	64.4	59.8	60.8	57.7	156.0	4-Jun	43.5	10_2
R Judee +	85.2	72.9	68.9	69.9	61.3	156.7	5-Jun	38.3	9.8
R Keldin (P)+	107.8	84.6	75.6		61.2	156.0	4-Jun	38,3	10.6
R Loma ++	80.8	68.2	62.4		58.6	158.2	6-Jun	36.7	10.2
MT1138	102.3	83.9	76.2	73.6	59.7	156.3	4-Jun	42.3	10.3
MT1257	103.0	83.6	76,6		59.3	156.1	4-Jun	40.8	10.1
MT1265	107.0	82.7	74.8		60.1	157.2	5-Jun	40.7	10.2
MT1332	104.2	85.3			59.8	156.9	5-Jun	40.6	10.0
MT1348	110.2	88.8			60.7	155.1	3-Jun	40.8	11.6
MT1354	99.2	82.5			60.7	157.0	5-Jun	39.6	10.1
MT1356	94.0	78.7			60.3	157.0	5-Jun	40.6	10.2
MT1443	96.7	70.7			59.7	157.0	5-Jun	38.6	10.4
MT1445			_	_	and the second			1.1.0.0	
11-10- T. Q. P. T.	100.2				59.8	157.1	5-Jun	42.4	10.5
MT1446	108.7				60.6	157.1	5-Jun	39.5	10.3
MT1460	99.9				60.3	156.5	5-Jun	41.6	10.4
MT1465	98.7				59.9	156.2	4-Jun	38.2	11.2
MT1471	96.0				60.4	156.3	4-Jun	38.7	11.2
MT1478	105.6				59.3	155.5	4-Jun	42.6	10.9
MT1488	97.7				60.0	157.0	5-Jun	38.9	10.7
MTCL1131	97.3	77.5	70.7	71.0	59.8	157.0	5-Jun	42.9	10.7
MTS1407	92.4	1.4	and the second s	and the party of	60.4	156.3	4-Jun	35.2	10.5
MTW1491 (HWW)	110.3				60.0	157.3	5-Jun	40.4	10.1
R Northern +	103.8	82.5	75.7	75.4	59.2	157.8	6-Jun	39.0	10.8
PSB13NEDH-14-71 (P)	76.6				61.1	153.8	2-Jun	38.1	10.9
Rampart	81.1	70.6	65.9	66.1	60.8	156.1	4-Jun	43.3	10.7
SY Clearstone 2CL (P)+	98.4	78.2	71.6	72.4	59.5	157.3	5-Jun	41.7	10.4
	103.3	84.6	110	12.4	59.6	155.3	3-Jun	39.0	10.4
SY Monument (P)+		and the second sec			1.000				
SY Sunrise (P)+	92.8	78.5	-	-	61.0	153.9	2-Jun	37.0	10.5
R SY Wolf (P)+	97.8	78.9	76.2	75.1	61.4	154.7	3-Jun	39.2	10.4
T158 (P)	92.0	73.9	71.5	2010	61.4	148.5	28-May	40.4	10.1
R Warhorse +	89.8	75.1	66.0	67.0	60.4	158.0	6-Jun	397	10.7

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WB3768 (HWW, P)+	100.6	81.8	73.0	72.6	60.8	158.5	7-Jun	41.0	10.6
WB4059CLP (P)+	74.4	61.4	59.2		59.4	150.3	29-May	37.4	9.9
WB4614 (P)+	97.5	78.7	72.1		61.1	157.2	5-Jun	38.5	9.6
WB4623CLP (P)+	84.9	70.0			61.7	156.7	5-Jun	37.9	10.2
R WB-Quake (P)+	87.4	72.3	63.7	65.6	60.0	157.3	5-Jun	38.7	10.8
R Yellowstone +	103.6	84.4	77.0	74.5	59.4	156.2	4-Jun	41.5	10.6
Average	94.5	77.6	70.4	70.1	59.9	155.7	4-Jun	39.7	10.4
LSD (0.05)	11.9	15.0	11.4	8.8	0.7	0.9		2.6	ns
C.V.	7.2	9.5	9.9	8.7	0.7	0.3		4.1	5.7

bold = indicates highest value within a column

bold = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

R = Recommended Variety; (P) = Private Variety; + = Protected Variety; ++ = PVP Pending

(HWW) = Hard White Winter Wheat

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<u>Trader's Dispatch, June 2017 – Page C30</u>

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- · 1979 International truck, 18-ft. box, tag axle
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# Winter Wheat Variety Performance **Summary in Montana**

#### **CONTINUED FROM PAGE A60**

The cheeks are rounded to angular with an open crease. Rampart is resistant to the wheat stem sawfly. It is moderately resistant to prevalent races of stem rust. Rampart is resistant to stripe rust. It is susceptible to leaf rust, dwarf smut and the Russian wheat aphid. Rampart has excellent milling and baking properties and is a sister line to Vanguard. Rampart will not be in the Montana Intrastate Winter Wheat testing for 2017.

SY Clearstone 2CL – a 2-gene CLEARFIELD hard red winter wheat developed by Montana Agricultural Experiment Station in 2012 and licensed exclusively to Syngenta Seeds. SY Clearstone wheat 2CL is very similar to Yellowstone. It is a medium maturing, medium tall, white chaffed wheat with average winter hardiness. It is a high yielding wheat with average test weight and protein. SY Clearstone 2CL is resistant to stripe rust and has moderate resistance to stem rust, the latter an improvement over Yellowstone. SY Clearstone 2CL is resistant to common bunt. SY Clearstone 2CL is a medium PPO variety with average mill and above aver-Table 9 HARD WINTER : District 5- Carter/Et Benton (Northern Seeds) - Dovland

age bake properties. PVP, Title V has been issued (Certificate #201300357). Additionally, the CLEARFIELD genes are patented.

SY Monument – hard red winter wheat developed by Syngenta and released in 2015. SY Monument is a medium maturing, medium short statured wheat, with white chaff. SY Monument has average yield, below average test weight and average protein. SY Monument is resistant to stripe rust. Sy Monument is a medium low PPO variety with average mill and bake characteristics. PVP, Title V has been issued (Certificate #201400332).

SY Sunrise – hard red winter wheat developed by Syngenta and released in 2015. SY Sunrise is an early maturing, short statured wheat, with white chaff. SY Sunrise has average yield, above average test weight, and average protein. Sy Sunrise is resistant to stripe rust. SY Monument is a high PPO variety with average mill and below average bake characteristics under Montana conditions. PVP, Title V has been issued (Certificate #201500370).

**CONTINUED ON PAGE C34** 

Table 9. HARD WINTER :	District 5 Carter/Ft. Benton (Northern Seeds) - Dryland *** Test not planted 2013-2015 ***								
				Data					
Cultivar/Line	Grain Yield (bushels/acre)	Test	Plant	Sawfly	Protein				
	2016	weight	height	cutting					
	1y	lb/bu	in	%	%				
Avery +	85.8	61.8	37.5	43	10.4				
R Bearpaw +	43.3	59.0	36.0	8	11.8				
Brawl CL Plus +	74.6	62.3	35.5	43	11.9				
R Broadview (P)	68.2	60.8	36.5	65	11.8				
Byrd +	78.5	62.2	36.0	68	10.5				
BZ9W09-2075 (WB4575) P++	64.8	63.3	33.5	8	12.0				
BZ9W09-2212 (WB4483) P++	57.3	59.6	33.0	10	10.7				
CDC Falcon (P)+	65.2	61.8	34.0	23	10.3				
R Colter +	65.6	60.9	35.0	35	11.4				
Cowboy +	66.7	60.9	36.5	30	10.3				
R Decade +	57.4	60.0	36.5	12	10.8				
Freeman +	68.2	60.6	35.5	43	11.3				
Jerry	60.1	60.3	39.0	43	11.3				
R Judee +	53.7	62.1	34.5	6	12.1				
R Keldin (P)+	78.9	62.3	35.5	25	11.5				
R Loma ++	46.9	58.7	33.5	8	10.4				
MT1138	65.6	60.4	36.5	27	10.0				
MT1257	67.2	60.0	35.5	32	10.6				
MT1265	77.3	62.1	37.0	18	11.4				
MT1332	68.0	60.7	38.5	15	10.7				
MT1348	69.2	61.5	36.5	32	11.6				
MT1354	55.2	61.1	36.5	28	10.8				
MT1356	67.1	59.9	36.0	38	11.0				
MT1443	63.2	59.2	36.0	18	11.4				
MT1444	72.9	60.6	35.0	17	11.4				
MT1446	63.2	60.9	36.0	28	11.5				
MT1460	60.0	60.3	35.0	50	11.7				
MT1465	60.0	60.1	33.5	12	11.4				
MT1471	73.9	61.4	35.5	22	11.2				
MT1478	70.3	59.8	35.0	38	11.3				
MT1488	47.1	59.9	35.5	38	10.9				
MTCL1131	61.1	60.2	39.5	17	10.7				
MTS1407	49.5	60.1	31.5	6	11.5				
and a ruler			A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 C / 1					

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R Northern +	58.7	59.7	35.5	8	11.0
PSB13NEDH-14-71 (P)	68.3	62.5	35.5	35	11.8
Rampart	47.8	60.9	40.5	5	11.4
SY Clearstone 2CL (P)+	62.1	60.1	39.0	23	10.5
SY Monument (P)+	70.2	60.7	35.5	28	10.7
SY Sunrise (P)+	75.8	63.0	32.5	53	11.5
R SY Wolf (P)+	76.3	63.5	34.5	17	10.7
T158 (P)	75.0	62.9	35.5	67	11.6
R Warhorse +	46.3	60.9	35.0	1	11.0
WB3768 (HWW, P)+	55.9	61.6	39.5	1 30	10.9
WB4059CLP (P)+	70.5	62.2	33.0	23	11.3
WB4614 (P)+	74.7	62.1	33.0	25	10.7
WB4623CLP (P)+	59.5	62.1	35.0	37	11.6
R WB-Quake (P)+	42.2	59.7	35.0	6	11.7
R Yellowstone +	63.7	60.2	37.0	20	10.8
Average	64.1	61.0	35.7	27.1	11.1
LSD (0.05)	8.5	0.8	2.0	24.8	
C.V.	7.6	0.8	2.8	56.4	

60.3

34.0

42

11.0

bold = indicates highest value within a column

bold = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

R = Recommended Variety; (P) = Private Variety; + = Protected Variety; ++ = PVP Pending

66.3

(HWW) = Hard White Winter Wheat

MTW1491 (HWW)

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# Winter Wheat Variety Performance Summary in Montana

### CONTINUED FROM PAGE C30

SY-Wolf – hard red winter wheat developed by Syngenta (AgriPro) Seeds in 2010. SY-Wolf is a medium maturing, short statured wheat with white glumes. SY-Wolf has above average yield and test weight and average protein. Winter-hardiness was average in 2011 at Sidney. SY-Wolf is moderately susceptible to moderately resistant (MS/MR) to stripe rust, but resistant to stem rust. Boomer has average milling and below average baking properties. PVP, Title V has been issued (Certificate #201100390).

T158 – hard red winter wheat developed by Trio Research (now part of Limagrain) and released in 2009. T158 is an early maturing, short statured wheat, with white chaff. T158 has average yield, above average test weight, and below average protein. T158 is resistant to stripe rust. T158 is a high PPO variety with average mill and and below average bake characteristics. *T158* will not be in the Montana Intrastate Winter Wheat Test for 2017.

Warhorse - is an awned, white glumed, solid-stemmed hard red winter wheat released in 2013 by the Montana Agricultural Experiment Station. Warhorse has medium maturity and has medium short, semi-dwarf height. Warhorse's winter hardiness, rated at 4 on 0-5 scale, is an improvement over other solid stem varieties. Stem solidness is similar to that of Bearpaw and Rampart, while sawfly cutting of stems is very low (similar to Rampart). Warhorse yield is similar to Judee, while test weight and protein are above average. Warhorse is resistant to both stem and stripe rust. Warhorse has acceptable mill and bake qualities. PVP, Title V has been issued (Certificate #201400131).

### Table 10. HARD WINTER : District 6-- Sidney - Dryland

Та	able 10. HARD WINTER :	District 6 Sidney - Dryland			
		*** No harvest in 2013 due to severe	hail prio		
	Cultivar/Line	2014, 2015 = severe winter-kill, no harvest	Test	2016 Data	a Protein
	Cultivar/Line	Grain Yield (bushels/acre)	4	Plant	Protein
$\vdash$		2016	weight	height	0/
	Avenut	1y 85.8	lb/bu 61.8	in 35.4	% 8.1
	Avery + Bearpaw +	43.3	59.0	35.4 34.1	9.6
	Brawl CL Plus +	74.6	62.3	36.7	9.0 11.5
	Broadview (P)	68.2	60.8	36.8	11.3
<b>N</b>	Byrd +	78.5	62.2	35.8	8.3
	BZ9W09-2075 (WB4575) P++	64.8	63.3	35.0	11.0
	BZ9W09-2212 (WB4483) P++	57.3	59.6	35.0	12.1
	CDC Falcon (P)+	65.2	61.8	35.1	10.3
	Colter +	65.6	60.9	37.1	10.5
	Cowboy +	66.7	60.9	34.9	8.7
R	Decade +	57.4	60.0	34.3	11.2
1.	Freeman +	68.2	60.6	37.2	9.5
R	Jerry	60.1	60.3	39.9	12.3
``	Judee +	53.7	62.1	33.4	10.3
	Keldin (P)+	78.9	62.3	36.0	10.7
R	Loma ++	46.9	58.7	35.2	14.0
	MT1138	65.6	60.4	38.5	9.5
	MT1257	67.2	60.0	38.5	9.2
	MT1265	77.3	62.1	38.7	8.8
	MT1332	68.0	60.7	38.0	9.4
	MT1348	69.2	61.5	36.8	8.3
	MT1354	55.2	61.1	39.1	10.6
	MT1356	67.1	59.9	38.4	9.7
	MT1443	63.2	59.2	36.6	11.0
	MT1444	72.9	60.6	38.0	10.2
	MT1446	63.2	60.9	36.7	9.4
	MT1460	60.0	60.3	38.2	10.3
	MT1465	60.0	60.1	36.9	9.5
	MT1471	73.9	61.4	36.8	12.2
	MT1478	70.3	59.8	39.2	10.6
	MT1488	47.1	59.9	34.6	10.9
	MTCL1131	61.1	60.2	38.6	10.5
	MTS1407	49.5	60.1	32.5	11.5
	MTW1491 (HWW)	66.3	60.3	37.1	9.5
	Northern +	58.7	59.7	35.6	10.8
	PSB13NEDH-14-71 (P)	68.3	62.5	36.0	9.9
	Rampart	47.8	60.9	37.5	11.0
	SY Clearstone 2CL (P)+	62.1 70.2	60.1 60.7	37.9 35.6	9.2
	SY Monument (P)+	75.8	63.0	35.6 35.7	10.3 10.7
	SY Sunrise (P)+ SY Wolf (P)+	76.3	63.5	36.7	10.7
	T158 (P)	75.0	62.9	34.6	8.8
	Warhorse +	46.3	60.9	33.9	11.3
	WB3768 (HWW, P)+	55.9	61.6	38.6	10.0
	WB4059CLP (P)+	70.5	62.2	32.9	10.0
	WB4614 (P)+	74.7	62.1	34.3	8.7
	WB4623CLP (P)+	59.5	62.1	34.5	11.6
R	WB-Quake (P)+	42.2	59.7	35.1	11.9
	Yellowstone +	63.7	60.2	37.1	9.2
	Average	64.1	61.0	36.4	10.3
	LSD (0.05)	8.5	0.8	2.0	1.1
	C.V.	7.6	0.8	3.2	6.0
ho	ld = indicates highest value withir	a column			



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R = Recommended Variety; (P) = Private Variety; + = Protected Variety; ++ = PVP Pending

(HWW) = Hard White Winter Wheat

#### **CONTINUED ON PAGE C38**

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# Winter Wheat Variety Performance **Summary in Montana**

**CONTINUED FROM PAGE C34** 

WB3768-is a white-chaffed hard white winter wheat developed by the Montana Agricultural Experiment Station and licensed exclusively to WestBred/Monsanto in 2013. WB3768 is a high yielding variety similar to Yellowstone. WB3768 is similar to Yellowstone for most agronomic traits with the exception of higher test weight and later heading date and maturity. WB3768 is 1.8 inches taller than Yellowstone. Like Yellowstone, WB3768 is resistant to prevalent races of stem rust, but susceptible to stem and leaf rust. WB3768 is moderately resistant to common bunt. WB3768 has acceptable milling and baking quality. WB3768 is a low PPO cultivar with favorable Asian noodle color stability and noodle score. PVP, Title V has been issued (Certificate #201500028). WB3768 will not be in the Montana Intrastate Winter Wheat Test for 2017.

WB4059CLP – hard red winter wheat developed by WestBred and released in 2013. WB4059CLP is an awnless, early maturing, short statured wheat, with white chaff. WB4059CLP has below average yield and test weight and above average protein. WB4059CLP is very susceptible to stripe rust. WB4059CLP is a high PPO variety with average mill and bake characteristics. PVP, Title V has been issued (Certificate #2013004481). Additionally, the CLEARFIELD genes are patented. WB4059CLP will not be in the Montana Intrastate Winter Wheat Test for 2017.

WB4614 - hard red winter wheat developed by WestBred and released in 2013. WB4614 is a medium maturing, medium short statured wheat, with white chaff. WB4614 has average yield and protein and above average test weight. WB4614 is resistant to stripe rust. WB4614 is a high PPO variety with average mill and bake characteristics. PVP, Title V has been issued (Certificate #201500188).

WB4623CLP - hard red winter wheat developed by WestBred and released in 2015. WB4623CLP is a medium late maturing, short statured wheat, with white chaff. WB4623CLP has average yield, test weight, and protein. WB4623CLP is resistant to stripe rust. WB4623CLP is a medium low PPO variety with average mill and above average bake characteristics. PVP, Title V has been issued (Certificate #201500189). Additionally, the CLEARFIELD genes are patented.

WB-Quake - hard red winter wheat developed by WestBred (Monsanto) in 2011. WB-Quake is a medium to late maturing, medium statured solid-stemmed wheat, with white chaff. WB-Quake has above average yield, average test weight and protein with average winter hardiness. WB-Quake is resistant to stripe rust and moderately resistant to stem rust. WB-Quake is a high PPO variety with above average milling and baking properties. PVP, Title V is issued (Certificate #201100471).

#### CONTINUED ON PAGE C48

and a second second second second second	and the second	*** No	harvest in 2014	due to s	evere wir	nterkill ***		
						2016 Data		
Cultivar/Line	G	Grain Yield (bushe	els/acre)	Test	Headii	ng Date	Plant	Protein
	2016	2015-16	2013//16	weight	Ordinal	Calendar	height	
	1y	2y	Зу	lb/bu	from Jan1	G	in	%
Avery +	55.4			58.4	147.0	26-May	21.7	11.9
Bearpaw +	45.4	44.2	45.6	57.3	147.3	26-May	21.8	11.6
Brawl CL Plus +	50.0	37.8		59.8	145.7	25-May	24.0	10.7
Broadview (P)	48.7	53.4	53,2	57.4	148.7	28-May	22.6	12.3
Byrd +	58.7	54.0		58.3	146.3	25-May	23.8	9.7
BZ9W09-2075 (WB4575) P++	51.5			59.9	147.7	27-May	23,6	11.3
BZ9W09-2212 (WB4483) P++	50.9			58.5	150.7	30-May	23.4	11.4
CDC Falcon (P)+	45.4	50.1	48.7	57.3	147.7	27-May	19.2	13.6
Colter +	56.2	52.3	60.2	59.2	150.7	30-May	26.5	12.5
Cowboy +	51.2	40.0	44.4	57.9	147.0	26-May	21.2	11.3
Decade +	49.8	48.8	51.5	58.3	147.7	27-May	21.7	11.2
Freeman +	49.0	47.0		56.2	145.7	25-May	227	10.7
Jerry	43.3	47.8	53.6	56.8	149.7	29-May	22.4	13.7
Judee +	46.7	37.3	37.3	59.4	148.0	27-May	21.5	12.5
Keldin (P)+	54.9	41.5		59.5	147.3	26-May	21.3	11.3
Loma ++	47.8	50.0		58.6	150.7	30-May	23.9	11.9
MT1138	61.8	57.1	60.2	59.0	148.3	27-May	27.0	10.9
MT1257	53.0	52.3	22.00	58.3	150.3	29-May	25.6	13.1
MT1265	60.4	54.4		58.9	147.7	27-May	27.2	11.1
MT1332	58.2	57.8		59.1	147.3	26-May	25.8	10.8
MT1348	57.5	48.0		59.2	147.0	26-May	24.2	12.1
MT1354	50 7	51.4		59.1	149.3	28-May	23.8	11.9
MT1356	58.1	54.4		58.3	148.3	27-May	26.6	10.0

59.5

58.8

59.3

57.9

58.6

58.9

27-May

27-May

27-May

27-May

26-May

28-May

24.1

25.5

24.7

24.6

23.3

25.3

10.7

9.3

13.0

12.1

12.7

10.9

147.7

148.3

147.7

147.7

147.0

148.7

Average LSD (0.05) C.V.	51.8 9.4 10.7	48.0 ns 18,4	51.9 10.9 12.6	57.4 0.5 0.5	148.1 0.9 0.4	27-May	23.4 3.3 8.6	11.6 ns 13.4
Yellowstone +	58.6	61.4	<u>64.4</u>	58.4	147.7	27-May	26.8	10.6
WB-Quake (P)+	49.8	48.6	52.2	58.3	150.3	29-May	24.3	11.
WB4623CLP (P)+	55.5	35.0		58.7	147.7	27-May	22.9	11.
WB4614 (P)+	51.9	47.9		58.6	147.0	26-May	21.8	12.
WB4059CLP (P)+	54.1	37.9		57.5	146.7	26-May	19,5	12.
WB3768 (HWW, P)+	55.1	54.2	56.9	59.0	148.3	27-May	25.6	12.
Warhorse +	41.0	40.9	45.4	58.9	150.7	30-May	18.8	13.
T158 (P)	48.7	42.2		57.8	146.3	25-May	18.3	12.
SY Wolf (P)+	58.7	47.3	49.3	59.6	146.7	26-May	23.6	11.
SY Sunrise (P)+	52.7	38.5		58.5	147.3	26-May	19.4	11.
SY Monument (P)+	55.7	48.3		57.4	147.7	27-May	22.1	10.
SY Clearstone 2CL (P)+	53.1	49.4	49.7	59.0	147.3	26-May	25.6	10.
Rampart	53.2	43.1	45.4	58.1	147.3	26-May	24.2	11.
PSB13NEDH-14-71 (P)	47.1			59.6	146.7	26-May	20.3	10.
Northern +	50.3	50.4	54.1	59.2	149.7	29-May	20 5	12.
MTW1491 (HWW)	62.5			58.3	150.3	29-May	26.6	9.7
MTS1407	48.7		1000	58.1	147.7	27-May	21.0	11.
MTCL1131	60.1	57.8	61.8	58.7	150.3	29-May	28.3	10.
MT1488	48.9			59.8	150.3	29-May	21.5	12.
MT1478	62.4			57.7	147.0	26-May	25.5	12.

bold = indicates highest value within a column

bold = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

R = Recommended Variety; (P) = Private Variety; + = Protected Variety; ++ = PVP Pending

52.0

56.8

48.4

53.3

49.3

56.1

(HWW) = Hard White Winter Wheat

MT1443

MT1444

MT1446

MT1460

MT1465

MT1471

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# Winter Wheat Variety Performance **Summary in Montana**

**CONTINUED FROM PAGE C34** 

WB3768-is a white-chaffed hard white winter wheat developed by the Montana Agricultural Experiment Station and licensed exclusively to WestBred/Monsanto in 2013. WB3768 is a high yielding variety similar to Yellowstone. WB3768 is similar to Yellowstone for most agronomic traits with the exception of higher test weight and later heading date and maturity. WB3768 is 1.8 inches taller than Yellowstone. Like Yellowstone, WB3768 is resistant to prevalent races of stem rust, but susceptible to stem and leaf rust. WB3768 is moderately resistant to common bunt. WB3768 has acceptable milling and baking quality. WB3768 is a low PPO cultivar with favorable Asian noodle color stability and noodle score. PVP, Title V has been issued (Certificate #201500028). WB3768 will not be in the Montana Intrastate Winter Wheat Test for 2017.

WB4059CLP – hard red winter wheat developed by WestBred and released in 2013. WB4059CLP is an awnless, early maturing, short statured wheat, with white chaff. WB4059CLP has below average yield and test weight and above average protein. WB4059CLP is very susceptible to stripe rust. WB4059CLP is a high PPO variety with average mill and bake characteristics. PVP, Title V has been issued (Certificate #2013004481). Additionally, the CLEARFIELD genes are patented. WB4059CLP will not be in the Montana Intrastate Winter Wheat Test for 2017.

WB4614 - hard red winter wheat developed by WestBred and released in 2013. WB4614 is a medium maturing, medium short statured wheat, with white chaff. WB4614 has average yield and protein and above average test weight. WB4614 is resistant to stripe rust. WB4614 is a high PPO variety with average mill and bake characteristics. PVP, Title V has been issued (Certificate #201500188).

WB4623CLP - hard red winter wheat developed by WestBred and released in 2015. WB4623CLP is a medium late maturing, short statured wheat, with white chaff. WB4623CLP has average yield, test weight, and protein. WB4623CLP is resistant to stripe rust. WB4623CLP is a medium low PPO variety with average mill and above average bake characteristics. PVP, Title V has been issued (Certificate #201500189). Additionally, the CLEARFIELD genes are patented.

WB-Quake - hard red winter wheat developed by WestBred (Monsanto) in 2011. WB-Quake is a medium to late maturing, medium statured solid-stemmed wheat, with white chaff. WB-Quake has above average yield, average test weight and protein with average winter hardiness. WB-Quake is resistant to stripe rust and moderately resistant to stem rust. WB-Quake is a high PPO variety with above average milling and baking properties. PVP, Title V is issued (Certificate #201100471).

#### CONTINUED ON PAGE C48

and the second	and the second	*** No	harvest in 2014	due to s	evere wir	nterkill ***					
				2016 Data							
Cultivar/Line	G	Grain Yield (bushe	els/acre)	Test	Headii	ng Date	Plant	Protein			
	2016	2015-16	2013//16	weight	Ordinal	Calendar	height				
	1y	2y	Зу	lb/bu	from Jan1	C	in	%			
Avery +	55.4			58.4	147.0	26-May	21.7	11,9			
Bearpaw +	45.4	44.2	45.6	57.3	147.3	26-May	21.8	11.6			
Brawl CL Plus +	50.0	37.8		59.8	145.7	25-May	24.0	10.7			
Broadview (P)	48.7	53.4	53,2	57.4	148.7	28-May	22.6	12.3			
Byrd +	58.7	54.0		58.3	146.3	25-May	23.8	9.7			
BZ9W09-2075 (WB4575) P++	51.5			59.9	147.7	27-May	23,6	11.3			
BZ9W09-2212 (WB4483) P++	50.9			58.5	150.7	30-May	23.4	11.4			
CDC Falcon (P)+	45.4	50.1	48.7	57.3	147.7	27-May	19.2	13.6			
Colter +	56.2	52.3	60.2	59.2	150.7	30-May	26.5	12.5			
Cowboy +	51.2	40.0	44.4	57.9	147.0	26-May	21.2	11.3			
Decade +	49.8	48.8	51.5	58.3	147.7	27-May	21.7	11.2			
Freeman +	49.0	47.0		56.2	145.7	25-May	227	10.7			
Jerry	43.3	47.8	53.6	56.8	149.7	29-May	22.4	13.7			
Judee +	46.7	37.3	37.3	59.4	148.0	27-May	21.5	12.5			
Keldin (P)+	54.9	41.5		59.5	147.3	26-May	21.3	11.3			
Loma ++	47.8	50.0		58.6	150.7	30-May	23.9	11.9			
MT1138	61.8	57.1	60.2	59.0	148.3	27-May	27.0	10.9			
MT1257	53.0	52.3		58.3	150.3	29-May	25.6	13.1			
MT1265	60.4	54.4		58.9	147.7	27-May	27.2	11.1			
MT1332	58.Z	57.8		59.1	147.3	26-May	25.8	10.8			
MT1348	57.5	48.0		59.2	147.0	26-May	24.2	12.1			
MT1354	50 7	51.4		59.1	149.3	28-May	23.8	11.9			
MT1356	58.1	54.4		58.3	148.3	27-May	26.6	10.0			

59.5

58.8

59.3

57.9

58.6

58.9

27-May

27-May

27-May

27-May

26-May

28-May

24.1

25.5

24.7

24.6

23.3

25.3

10.7

9.3

13.0

12.1

12.7

10.9

147.7

148.3

147.7

147.7

147.0

148.7

Average LSD (0.05) C.V.	51.8 9.4 10.7	48.0 ns 18,4	51.9 10.9 12.6	57.4 0.5 0.5	148.1 0.9 0.4	27-May	23.4 3.3 8.6	11.0 ns 13.0
Yellowstone +	58.6	61.4	<u>64.4</u>	58.4	147.7	27-May	26.8	10.6
WB-Quake (P)+	49.8	48.6	52.2	58.3	150.3	29-May	24.3	11.
WB4623CLP (P)+	55.5	35.0		58.7	147.7	27-May	22.9	11.
WB4614 (P)+	51,9	47.9		58.6	147.0	26-May	21.8	12.
WB4059CLP (P)+	54.1	37.9		57.5	146.7	26-May	19,5	12.
WB3768 (HWW, P)+	55.1	54.2	56.9	59.0	148.3	27-May	25.6	12.
Warhorse +	41.0	40.9	45:4	58.9	150.7	30-May	18.8	13.
T158 (P)	48.7	42.2		57.8	146.3	25-May	18.3	12.
SY Wolf (P)+	58.7	47.3	49.3	59.6	146.7	26-May	23.6	11.
SY Sunrise (P)+	52.7	38.5		58.5	147.3	26-May	19.4	11.
SY Monument (P)+	55.7	48.3		57.4	147.7	27-May	22.1	10.
SY Clearstone 2CL (P)+	53.1	49.4	49.7	59.0	147.3	26-May	25.6	10.
Rampart	53.2	43.1	45.4	58.1	147.3	26-May	24.2	11.
PSB13NEDH-14-71 (P)	47.1			59.6	146.7	26-May	20.3	10.
Northern +	50.3	50.4	54.1	59.2	149.7	29-May	20 5	12.
MTW1491 (HWW)	62.5			58.3	150.3	29-May	26.6	9.7
MTS1407	48.7		1000	58.1	147.7	27-May	21.0	11.
MTCL1131	60.1	57.8	61.8	58.7	150.3	29-May	28.3	10.
MT1488	48.9			59.8	150.3	29-May	21.5	12.
MT1478	62.4			57.7	147.0	26-May	25.5	12.

bold = indicates highest value within a column

bold = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

R = Recommended Variety; (P) = Private Variety; + = Protected Variety; ++ = PVP Pending

52.0

56.8

48.4

53.3

49.3

56.1

(HWW) = Hard White Winter Wheat

MT1443

MT1444

MT1446

MT1460

MT1465

MT1471

Trader's Dispatch, June 2017 - Page C48 Say you saw it in the Trader's Dispatch

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GenSet 660kw with Cat power, low hours...... \$12,500 Call 406-560-0703. S.W. MT

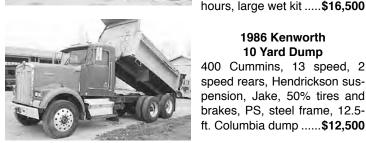


2000 Freightliner FL70 24-ft.x102" flatbed, 33K GVW, 225 hp, ISC Cummins, 6 speed Eaton, AC, AR, cruise, 137,000



### miles, 75% 11R22.5's.\$13,500

1993 Ford L8000 14,000 miles, AC, PS, 250 hp. 8.3 Cummins, Allison AT, 4 speed aux, 2 speed, 34K rears on Hendrickson, 16K front, 19ft. double steel frame, 2200



#### 1986 Kenworth 10 Yard Dump

400 Cummins, 13 speed, 2 speed rears, Hendrickson suspension, Jake, 50% tires and brakes, PS, steel frame, 12.5ft. Columbia dump ......\$12,500

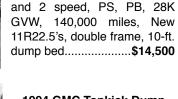
1989 Ford F800

5 Yard Dump









1993 Ford F700 5 Yard Dump

190 hp, 5.9 Cummins, 5 speed

1994 GMC Topkick Dump 3116 Cat diesel, 6 speed Eaton, AC, PS, PB, 60% 19.5 tires, 15.5-ft. steel grain dump, scissor hoist, hitch, 24L GVW.. .....\$12,500



Service Truck

1994 Ford L8000

250 hp 8.3 Cummins, 7 speed Fuller, AB, PS, 75% 22.5 tires, 12-ft. bed, trailer hookups, nice clean truck.....\$10,500

2001 Freightliner FL70 24-ft. flatbed, 26K GVW, 3126 Cat diesel, 6 speed manual, PB, PS, AC, cruise, 70% tires,

# Winter Wheat Variety Performance **Summary in Montana**

### CONTINUED FROM PAGE C38

Yellowstone - hard red winter wheat developed by the Montana Agricultural Experiment Station and released to seed growers in 2005. Yellowstone is a very high yielding winter hardy variety with medium test weight, maturity, height, and grain protein. Yellowstone has excellent baking and good Asian noodle quality. It is moderately resistant to TCK smut and resistant to stripe rust, but susceptible to stem rust. Yellowstone has been the leading winter wheat variety planted in Montana since 2012. PVP, Title V has been issued (Certificate #200600284).

### **Plant Variety Protection**

The Plant Variety Act, signed into law in 1970, offers legal protection to developers of new varieties of plants which reproduce sexually - that is, through seeds. The law provides for a Plant Variety Protection Office in the U.S. Department of Agriculture. The office receives and processes applications and when "novelty" is established, issues a certificate granting protection rights specified by the applicant.

The owner (or developer) holding a "certificate of protection" has complete control over the variety for 20 years. The law provides two types of protection:

1. Without Seed Certification

The owner of the protected variety may exclude others from reproducing the variety, selling it, offering it for sale, importing or exporting it, or use it in the commercial production of a hybrid or a different variety without permission. In this sense, the owner of a protected variety may bring civil damage action against anyone who infringes upon his rights.

2. Certified Seed Option

The owner may specify that the seed of his variety "... be sold or advertised only as a class of Certified Seed". Production and sale of such seed by variety name, when not certified, constitute a violation of the Federal Seed Act. This means of protection may be used extensively for publicly as well as privately developed varieties.

Amendments to the Plant Variety Protection Act (PVPA) have passed both houses of Congress and been signed into law by the President. These amendments went into effect in 1995. The farmers exemption has been changed for new varieties. Seed for varieties issued a certificate after April 4, 1995, may only be purchased from the owner or his agent. A farmer can only save seed of these varieties for use on his own farm and cannot sell seed of the protected variety to his neighbor.

A variety protected under the certification option does not permit a farmer producing seed to sell or offer for sale or advertise by variety name unless it is certified. Sale of such seed by variety name as uncertified seed will constitute a violation of the Federal Seed Act. Interstate movement of seed is subject to inspection by Federal Seed Control officials. Seed within the state is subject to inspection by State Department of Agriculture inspectors.

Owners of protected varieties will give public notice that their variety is protected by affixing to the label or container the words: "Unauthorized Propagation Prohibited" or the words, "Unauthorized Seed Multiplication Prohibited". Producers must check the label (tag) or the container for the above wording

Table 12. 2007//2015 Intrastate Winter Wheat Test (Exp. 35): Combined Locations Winter Survival and associated Yield (Locations: Williston (2007-2008, 2012, 2013, 2015), Sidney (2008, 2010, 2011) = 8 locations " No differential Winterkill with a h est in 2009 2014 and 2016 \*\*

	1	Sec.	Winte	r Surviv	al (%)			Yield under Winterkill conditions								
	2015	2013-15	2012-15	2011-15	2010-15	2008-15	2007-15	2015	2013-15	2012-15	2011-15	2010-15	2008-15	2007-15		
location-years	1.1	2	3	4	5	7	8	t	2	3	4	5	7	8		
Avery +	-							N. O. A.								
Bearpaw +	73	47	40	45	45			42.9	45.7	46.0	48.2	48.4				
Brawi CL Plus +	53							25.5								
Broadview (P)	95	63	60	60	62		-	58.1	55.5	57.8	57.3	59.3				
Byrd +	88							49.3	1.1.1.1	201	1.1	100				
BZ9W09-2075 (WB4575) P++																
BZ9W09-2212 (WB4483) P++								1.1								
CDC Falcon (P)+	94	63	59	61	62	53	56	54.8	50.3	53.4	54.3	55.6	49.5	52.7		
Colter +	90	67	51	52			and street, or	48.4	62.2	55.4	58.2	State of Street, or other	and the second second			
Cowboy +	28	21						28.7	41.0							
Decade +	78	53	51	57	57	52	55	477	52.4	49.4	53.3	54.7	48.2	51.9		
Freeman +	73	40			-		44	45.0				210				
Jerry	98	72	61	63	64	56	60	52.3	58.8	57.1	59.9	60.7	53.7	56.5		
Judee +	40	72 27	20	27	33	27	22	27.9	32.7	28.9	32.8	36.6	30.0			
Keldin (P)+	28	21	20		55	-1		28.1	02.1	20.0	52.0	50.0	50.0			
Loma ++	95							52.1								
MT1138	90	58					_	52.4	59.4					_		
MT1257	85	30						51.5	33.4							
MT1265	88							48.4								
002 / 107 T T	90							1200								
MT1332	53							57.3								
MT1348								38.4								
MT1354	90							52.1								
MT1356	78							50.6								
MT1443	_						_									
MT1444																
MT1446																
MT1460																
MT1465																
MT1471																
MT1478																
MT1488								12.1								
MTCL1131	80	64						55.4	62.6							
MTS1407																
MTW1491 (HWW)								1000								
Northern +	85	57	42	49				50,5	56.0	51.1	55.4					
PSB13NEDH-14-71 (P)								12.0.			-					
Rampart	70	46	37	40	38	29	31	33.0	41.5	39.6	41.6	41.4	32.2	34.5		
SY Clearstone 2CL (P)+	73	47	35					45.7	48.0	44.8						
SY Monument (P)+	75							40.8								
SY Sunrise (P)+	36							24.2								
SY Wolf (P)+	55	39	28	33				35.9	44.7	38.9	43.9					
T158 (P)	60							35.6			1 2 3 2 2					
Warhorse +	78	55	45	50	49			40.8	47.6	47.3	50.3	513				
WB3768 (HWW, P)+	90	63	51	49				53.Z	57.9	56.2	58.2	COMOS .				
WB4059CLP (P)+	30							21.6			2000			1		
WB4614 (P)+	78							43.9								
WB4623CLP (P)+	16							14.4								
WB-Quake (P)+	75	52	41	45	46			47.3	53,4	51.4	51.8	51.3				
Yellowstone +	93	65	50	51	51	42	44	64.2	67.4	59.5	61.5	61.6	51.3	53.8		
5-16-17	-		10.0	10.0	40.0	10.7		1000	_	1000	1.00	a de la compañía de la	and a second			
Average	71.4 21.8	52.0 20.3	42.6	47.5	49.0 10.5	40.5	45.1 6.9	43.2	51.2 13.7	47.9	50.7 9.5	50.7 7.7	41.9 6.4	46.5		
LSD (0.05)	1.000							1000000				12.0		5,6		
C.V.	15.2	18.8	20.5	18.7	16.8	20.5	15.1	15.8	12.9	14.7	13.1	12.0	14.2	11.9		







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1979 Swinger 200 Articulated 4x4 Forklift Ford 172 4 cyl. gas, 4000 lb. capacity, 6-ft. lift height, hydrostatic drive, 50% tires, 4 ton tandem axle trailer, 6 lug axles, surge brakes, tows nice, good brakes.....\$7500

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1990 Trailmax T40-T 20 ton tiltbed trailer 24-ft.x102" deck, 85% 22.5 tires, AB, 42" deck height, LED lights, good deck......\$12,500

bold = indicates highest value within a column

bold = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05) (P) = Private Variety, + = Protected Variety; ++ = PVP Pending (HWW) = Hard White Winter Wheat

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### **New - Buhler Farm King 4490 Disc**



# Winter Wheat Variety Performance **Summary in Montana**

**CONTINUED FROM PAGE C48** 

Table 13, HARD WINTER WHEAT: Yield Performance under Sawfly Pressure and % Sawfly Cutting (2011//2016) (Note: Sawfly cutting in each location-year >10%)

	No Sawfly Cutting >10% in 2014													
Cultivar/Line	1.12	G	rain Yield (br	u/a)			Sa	wfly Cutting	(%)					
	2016	2015-16	2013//16	2012//16	2011//16	2016	2015-16	2013//16	2012//16	2011//1				
Location-years	2	3	5	8	10	5	3	5	8	10				
Bearpaw + (ss)	65.2	60.4	61.4	52.4	52.2	10	9	10	.74	10				
Broadview (P)	73.9	65,4				61	43							
CDC Falcon (P)+	75.7	68.2	66.2	54.8	55.0	57	39	27	31	28				
Colter +	75.5	64.1	63.0	53.3	2007	66	52	-40	42					
Cowboy +	78.8				1.1.1.1	63								
Decade +	78.1	67.6	65.8	55.7	55.1	32	22	20	26	24				
Jerry	61.4	56.0	57.3	47.9	48.9	68	50	36	39	36				
Judee + (ss)	90.0	74.4	72.3	59.3	58.9	26	18	18	16	14				
Keldin (P)+	97.4	-			the state of the state	54								
Loma ++ (ss)	80.5	69.0				16	15							
MT1138	78.5	68.3				48	36							
MT1257	76.6	66.6				60	49							
MT1265	81.4	71.9				50	39							
MT1332	80.5					56								
MT1348	84.2					63								
MT1354	68.2					43								
MT1356	75.7					48			_					
Northern +	80.3	71.9	72.6			23	20	17						
Rampart (ss)	62.1	57.0	58.9	48,4	48.6	21	14	13	12	10				
SY Clearstone 2CL (P)+	93.1	78.5	74.6	63.3	. And	49	39	30	34					
SY Wolf (P)+	87.0	74.6	100			35	26							
Warhorse + (ss)	72.0	62.8	63.9	55.2	54.1			2	3	3				
WB3768 (HWW, P)+	79.0	69.0	67.9	44.4		1 64	0 52	<u>2</u> 40	-	*				
WB-Quake (P)+ (ss)	74.9	64.6	65.9	53.5	54.7	24	17	18	14	13				
Yellowstone +	86.7	73.2	70.7	58.7	58.1	50	39	28	34	31				
Average	78.2	67.6	66,2	54.8	54.0	43	30	23	24	19				
LSD (0.05)	ns	ns	9.3	6.8	5.6	34	25	17	16	13				
C.V. (%)	11.5	12.3	11.1	12.4	11.7	39	50	60	66	75				

bold = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05) (P) = Private Variety; + = Protected Variety; ++ = PVP Panding

(HWW) = Hard White Winter Wheat

Table 14. Precipitation (top, in inches) and Average Monthly Temperature (bottom, °F) for Crop Year 2015-2016

Agricultural	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Total
Research Center	2015	2015	2015	2015	2016	2016	2016	2016	2016	2016	2016	2016	Average
Western Triangle,	2.99	1.17	0.82	9.67	2.36	0.00	0.20	2.06	2.09	0.60	2.82	1.11	16.89
Conrad				1987-	2016 Aver	age = 11.7	1 (Temp :	= 43,7)					1.00
	55.7	47.5	31.0	24.2	23.5	36.1	37.6	45.1	49,9	61.3	.64.7	63.3	44.9
Northern,	2.08	1.93	0.46	0.33	0.13	0.02	0.44	3.92	4.10	1.69	2,53	1.23	18.86
Havre				1916-	2016 Aver	age = 12.1	0 (Temp :	= 42,9)					1000
	56.8	47.4	31.6	23.1	19.1	35.2	39,4	46.4	52.7	63.0	.68.1	66.2	45.8
Northwestern,	0,96	0.79	1.00	2.16	1.42	1,01	0.97	1.60	2,78	2.07	1,65	1.11	17.32
Kalispell				1980-	2015 Aver	age = 20.1	3 (Temp :	= 43,3)					1.000
	52,8	46.8	31.2	27,0	27.4	33.2	37.2	47.8	51.4	58.4	62.6	62.7	44.9
Central,	0.83	0.61	0.47	0.40	0.28	0,26	0.58	1.24	4.64	1.02	1.68	na	12.13+
Moccasin <sup>1/</sup>				1911-	2016 Aver	age = 16.3	7 (Temp :	= 43.3)					
	57.8	48.7	32.8	27.2	28.1	35.8	32.5	45.3	50.4	61.7	na	na	na
Southern,	0.26	1.97	0.50	0.50	0.25	0.11	1.30	1.41	2.49	0.86	0.46	1.57	11.68
Huntley				1911-	2016 Aver	age = 13.4	2 (Temp :	= 45.6)					
a mag	58.3	50.7	28.8	26.2	26.0	30.6	44.0	46.7	53.8	66.0	71.2	68.7	47.6
Northeastern,	2.64	0.40	0.31	0.17	0.10	0.57	0.17	3,60	2.06	1.40	2,72	0.74	15.73
Sidney				1949-	2015 Aver	age = 14.1	0 (Temp :	= 43.3)					1.000
	57.8	49.5	32.5	24.1	20.3	32.6	38.6	46.3	57.1	67.5	71.0	68,3	47.2
Williston (WREC),	2.45	1.64	0.23	0.28	0.04	0.32	0.04	2.47	2.07	1.97	2.68	0.51	9.70
N. Dakota				1990-	2016 Aver	age = 14.7	0 (Temp :	= 44.2)					and set of
	63.8	51.4	32.8	23.4	18.3	31.1	40.6	47.9	59.5	68.0	72.0	72.6	48.4
Northern Seeds,	1.51	0.74	1.03	0.52	0.70	0.06	0.73	2.63	2.37	1.43	1.87	1.39	14.98
Carter/Ft. Benton				2008-	2016 Aver	age = 13.5	6 (Temp :	= 45.2)					1000
	58.2	48.7	33.1	24.7	22.7	37.9	39.9	47.9	53.4	64.5	69.5	66.9	47.3
Post Farm,	1.32	1.72	1.50	1.09	0.34	0.14	1.30	1.33	2,71	0.77	1.21	0.87	14.30
Bozeman				1958-	2016 Aver	age = 15.8	(Temp :	= 43.6)					1000
	57.1	50.8	28.4	26.6	27.2	34.9	42.9	43.9	51.0	64.5	66.3	67.1	46.7

1/ = August rainfall, and July and August temperatures are missing for 2016 al Mo

Table 15. Selected agronomic characters, cereal quality evaluations and disease reactions of hard varieties

winter wheat	

		A	gronomi	c Charar	acters			Cer	eal Qua	lity	Disease Reactions <sup>8/</sup>			
Variety	Maturity <sup>1/</sup>	Chaff Color	Winter Survival <sup>2/</sup>	Straw Strength <sup>3/</sup>	Stem solid <sup>4/</sup>	Clear- field	Coleoptile length <sup>5/</sup>	1.2.2.2.2.2	Baking <sup>5/</sup>	PPO <sup>7/</sup>	Dwarf Smut	Stripe Rust	Stem Rust	Leaf Rus
Avery	M-E	White		S	- C	N		-	*	-	S	S		
Bearpaw	M	White	2	M	21	N	M	4	2	H	S	S	R	S
Brawl CL Plus	E	White	2	S		Y	L	3	3	н	S	S		
Broadview	M	White	5	S		N	S	3	3	н	S	S	R	R
Byrd	E	White	4	S	1	N	19	3	3	н	5	S	*	-
CDC Faicon	M	White	4	S	6	N	S	3	3	н	S	S	MR	R
Colter	M	White	4	S		N	S	3	4	M	S	R	R	S
Cowboy	M	White	2	S		N	M	2	2	M	S	S	R	1.0
Decade	M	White	4	S		N	M	3	4	н	S	S	R	MS
Freeman	E	White	3	S		N	-	2	2	н	S	R	-	
Jerry	M	White	5	M		N	M	3	3	H	S	S	R	R
Judee	M	White	2	M	20	N	L	3	4	H	S	R	S	s
Keldin	M	White	2	S		N	S	3	3	н	S	R	~	-
Loma	M-L	White	4	M	18	N	5	4	4	ML	S	R	R	-
Northern	M	White	3	S		N	S	3	3	L	S	R	R	
Rampart	M	Brown	2	MW	21	N	L	4	5	M	S	R	MR	S
SY Clearsone 2CL	M	White	3	S	-	Y	S	3	3	M	R	R	MR	
SY Monument	M	White	3	S		N	M	3	3	ML	S	R	1.	
SY Sunrise	E	White	2	S		N	M	3	2	н	S	R		
SY Wolf	M	White	3	S		N	M	3	2	M	S	R	R	
T158	E	White	3	S		N	-	3	2	H	S	R	-	-
Warhorse	M	White	4	MS	22	N	M	3	3	н	S	R	R	MR
WB3768 (HWW)	L	White	3	M		N	M	3	3	L	MR	R	R	14
WB4059CLP	E	White	2	S		Y	41	3	3	H	S	VS		
WB4483	L	White		S	20	N	S		2	~	S	MS	1.00	
WB4575	M	White		S		N	M			-	S	S		-
WB4614	M	White	4	S		N	м	3	3	H	S	R	÷.,	
WB4623CLP	M-L	White	1	M		Y	M	3	4	ML	S	R	- 40	
WB-Quake	M-L	White	3	S	20	N	M	4	4	H	S	R	MR	MF
Yellowstone	M	White	4	5	14	N	S	3	4	M	MS	R	S	MS

6/

\*New\* 2015 Buhler Farm King 4490 26.5-ft wide disc, Stoneflex hangers, 410 WSS HD bearings, 24" blades, 9" spacing, notched front, plain rear, 0 acres \*\*\$5200\*\* Annual Payment/O.A.C



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1/ VE = Very Early, E = Early, M = Medium, L = Late, VL = Very Late

2/ 5 = Best Winter survival (over several years at Sidney, Williston and Moccasin)

3/W = Weak MW = Medium Weak M = Medium MS = Medium Strong S = Strong

5/ L = long M = medium S = short - = no info, 5 = Superio 3 2 1 = Inferior

7/ PPO = Polyphenol Oxidase (low is better for noodles) L = low M ≈ medium H = high

4/ scored 5-25, 25 = most solid

Combined 2011-2015 Bozeman, Conrad, Havre, Loma, and Moccasin data: varieties with no number were not evaluated R = Resistant MR = Moderately Resistant M = Moderate MS = Moderately Susceptible S = Susceptible VS = Very Susceptible = no information