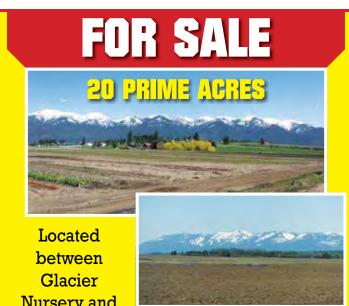
| Trader's Dispatch, June 2017 — Page A12 | |
|---|--------|
| TRUCK AND TRAILERS FOR SA | T T |
| I INVON AND I KAILENS I VK SI | |
| 2013 International Prostar, 15 liter engine 560 h | np, 18 |
| speed, full lockers, 300,000 miles. DPF deleted b | y Per- |
| formace Diesel Inc\$3 | |
| 2006 Load King 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 | |

Call Steven (406) 439-7429







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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for ways to minimize inputs and maximize harvests in efficient and effective ways."

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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slip differentials, very nice condition, has been meticulously maintained and stored inside, original paint, serviced and job site ready. Located in Spearfish, SD...... \$99,500



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 Methods

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 + ^{1/} | | - | 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)+ ^{2/} | 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

load limit. Machine is in very good condition, serviced and job site ready. Located in Victor, MT. \$38,500



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
- ^{2/} = pending approval at Variety Release Meeting, February 21, 2017

<u> Trader's Dispatch, June 2017 – Page A18</u>

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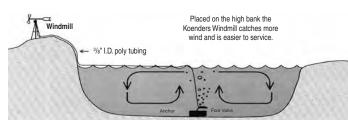
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Winter Wheat Variety Performance Summary in Montana

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 (P₂0₅) and potassium (K₂O) 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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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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| Versatile 400 tractor, powershift | \$150,000 |
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| Massey-Ferguson 8570 combine, 24-ft. header, pickup head | |
| John Deere 7700 combine | |
| White 9720 combine with 30-ft. auger header | \$10.000 |
| New Holland 94C 42-ft. double sickle pickup reel | |
| 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. | \$ 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. | |
| Renn 505 chisel plow | |
| Gysler 28-ft. duckfoot. | |
| Case IH RBX562 round baler, twine/net | |
| | |
| New Holland 664 round baler, twine only | |
| Gehl 800 chopper | |
| 1996 Eagle tandem dually pintle hitch flatbed, 6-ft. beavertail. | |
| DCT car trailer, new deck | |
| House 3-pt. dirt scoop. | |
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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 ₂ 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.

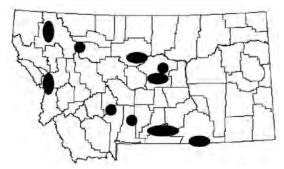


Fig. 2. Known areas of dwarf smut (TCK) infestations.

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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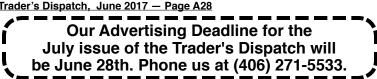
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Winter Wheat Variety Performance **Summary in Montana**

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.

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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

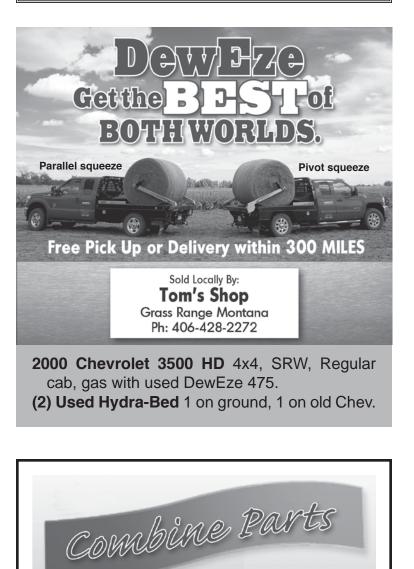
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Winter Wheat Variety Performance Summary in Montana

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 | FF 0 | 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 2.1 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 | | | |

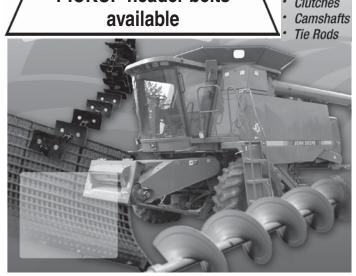
on the ratio of large-to-small seeds in a seed lot. The average is approximately 15,000 seeds per pound. A precise count of the number of seeds per pound should be made on your seed lot to help calibrate your drill. You can also calculate how many pounds of seed you will need to plant an acre.

| 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





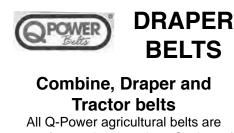
bold = indicates highest value within a column

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

Trader's Dispatch, June 2017 – Page A40



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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!"

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|--|
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| 2014 John Deere S680 , 875 separator hours \$195,000 |
| 2008 John Deere 9770, 1050 separator hours \$130,000 |
| 2012 John Deere 8245R, 6300 hours, 2 years extended |
| warranty \$90,000 |
| 2009 John Deere 9530, 2700 hours \$135,000 |
| 2012 John Deere 9560R, 2100 hours, PTO, big pump |
| \$215,000 |
| 2012 John Deere 9460R , 4250 hours, big pump, 3-pt., warranty |
| 1998 John Deere 9200 , 8700 hours, PowerShift, 3-pt., |
| PTO\$38,000 |
| John Deere 7920, 3800 hours, 746 loader \$85,000 |
| 2013 John Deere 6170R, H380 loader, 488 hours, IVT |
| suspensions |
| |
| 2013 John Deere 6150R, H360 loader, 2800 hours |
| |
| 2014 Degelman Pro Till , 40-ft., new blades \$85,000 |
| Several John Deere 635 flex heads \$15,000 - \$20,000 John Deere 640D draper head with pea auger \$30,000 |
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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

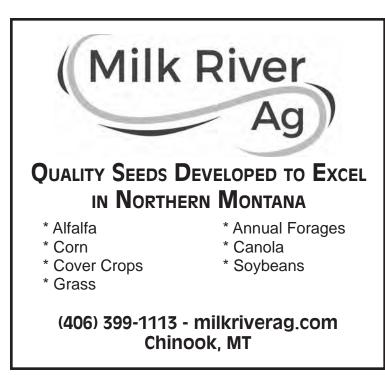
(HWW) = Hard White Winter Wheat

<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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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)

<u>Trader's Dispatch, June 2017 – Page C34</u>

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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 |
| N | 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

MAINLINE & HAY FOR SALE

8", 10" and 12" aluminum mainline, half with risers, 4244 linear feet. with vents and reducers. 100+ ton 1st cutting 2016 grass/alfalfa hay in 3x3 bales,

tarped. Phone (406) 220-0884, Livingston, Montana

FARM EQUIPMENT FOR SALE

- 1975 John Deere 7520 tractor with 8000 hours.
- 1975 John Deere 7700 diesel combine, 3520 hours.
- 1962 Ford F700 truck, V8 engine, box and hoist.
- 1962 GMC 4000 truck, V6 engine, box and hoist.
- · New Holland 7014 balewagon, tractor pull.

Call Jerry at (406) 724-3387

Richland, MT

FOR SALE: **1967 FWD SNOW PLOW**



4X4, "V" plow in front, new rebuilt 350 Cummins (never run). Complete with snow plow and new clutch assemblies

Phone: (406) 799-6923

• 27° Incline

Bin Unloader • Electric or Hydraulic Pneumatic Tires • For 6", 8" & 10" Underbin Systems

Come In And See This American Unloader Made Exclusively In Our Shop

Full Line of GATES Hoses and Fittings Hydraulics, Pumps, Motors, Cylinders, Valves & Engineering Complete Hydraulic Repair - Specializing in Cylinder Repair



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

EQUIPMENT FOR SALE

Allis-Chalmers HD 11 dozer, good condition, ready to 53-ft. van trailer with air ride suspension, rear doors and side door, set up for storage with shelving, also road worthy......\$4500

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

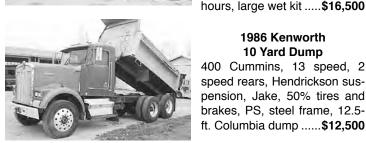


2000 Freightliner FL70 24-ft.x102" flatbed, 33K GVW, 225 hp, ISC Cummins, 6 speed Eaton, AC, AR, cruise, 137,000



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

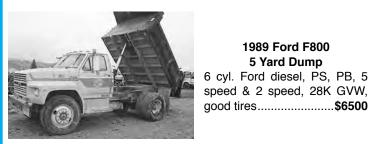


1986 Kenworth 10 Yard Dump

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

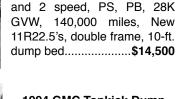
1989 Ford F800

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 | | |







406-381

-3159

or

runs and drives great..\$10,500

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

1997 Towmaster T40 20 ton trailer 50%, 17.5 tires, 24-ft.X102" wide, good deck, 50% brakes\$8500

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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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 ^{1/} | | | | 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 ^{8/} | | | |
|------------------|------------------------|----------------|----------------------------------|---------------------------------|-----------------------------|-----------------|------------------------------------|-------------|----------------------|-------------------|---------------------------------|----------------|--------------|-------------|
| Variety | Maturity ^{1/} | Chaff Color | Winter Survival ^{2/} | Straw Strength ^{3/} | Stem solid ^{4/} | Clear- field | Coleoptile length ^{5/} | 1.2.2.2.2.2 | Baking ^{5/} | PPO ^{7/} | 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/

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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