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• Traps are currently $18 each
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CONTINUED ON PAGE B8
Winter wheat variety performance summary in Montana

CONTINUED FROM PAGE B2

Table 1. Summary of agronomic practices used on hard winter wheat variety trials in Montana in 2018. Fertilizer (K2O) was preplant applied and incorporated.

<table>
<thead>
<tr>
<th>Variety</th>
<th>Year</th>
<th>Location</th>
<th>Crop</th>
<th>Tons per acre</th>
<th>Fertilizer</th>
<th>Planting Date</th>
<th>Fall Fertilizer N</th>
<th>Spring Fertilizer P2O5</th>
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<tr>
<td>Kalspell</td>
<td>2018</td>
<td>B8</td>
<td>peas</td>
<td>0.0</td>
<td>Aug 2</td>
<td>Sep 26</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Bocemen</td>
<td>2018</td>
<td>B8</td>
<td>barley</td>
<td>0.0</td>
<td>Aug 2</td>
<td>Oct 210</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Huntley</td>
<td>2018</td>
<td>B8</td>
<td>barley</td>
<td>0.0</td>
<td>Aug 2</td>
<td>Oct 10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Mocassin</td>
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<td>B8</td>
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<td>0.0</td>
<td>Aug 2</td>
<td>Oct 10</td>
<td>180</td>
<td>10</td>
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<td>Conrad</td>
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<td>0.0</td>
<td>Aug 2</td>
<td>Sep 25</td>
<td>41</td>
<td>5</td>
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<tr>
<td>Havre</td>
<td>2018</td>
<td>B8</td>
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<td>Jul 24</td>
<td>Sep 21</td>
<td>125</td>
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<td>Carter</td>
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<td>B8</td>
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<td>Aug 2</td>
<td>Oct 21</td>
<td>190</td>
<td>10</td>
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<td>B8</td>
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<td>0.0</td>
<td>Jul 24</td>
<td>Sep 13</td>
<td>80</td>
<td>0</td>
</tr>
<tr>
<td>Williston</td>
<td>2018</td>
<td>B8</td>
<td>barley</td>
<td>0.0</td>
<td>Jul 23</td>
<td>Sep 12</td>
<td>6</td>
<td>70</td>
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</table>

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.

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 differential winter-kill at Sidney, resulting in winter survival ranging from 0-63% (average = 40%) on May 8th, in 2018.

Table 12 contains information on % winter survival and associated yield in winter-kill environments from 2013 to 2018. The data summarizes 4 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 are 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 to the form of stem solidness has been effective in reducing sawfly losses in both spring and winter wheat. Current solid-stemmed winter wheat varieties include: Judee, (released in 2011), Bearpaw (2011), Warhorse (2013), Loma (2016), and WB4483 (2016).

Table 13 contains information on yield and % sawfly cutting at 13 testing locations where sawfly pressure was present during the years 2013-2018.

The data is from Carter (13 miles west of Ft. Benton), Chouteau, Fly Creek (about 8th, in 2018).

Tables 3 through 11 show 2018 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, wheat-hardiness, heading date, plant height, protein and disease resistance.

CONTINUED ON PAGE B14
TRAILER FOR SALE

7-ft. wide by 8’-6” ft. long, all aluminum with ramps
(406) 590-1572, Conrad, MT

The deadline for advertising for the May issue of the Trader’s Dispatch will be May 1.

Winter wheat variety performance summary in Montana

CONTINUED FROM PAGE B8

2018 Test Conditions

Statewide winter wheat yields were projected by the Montana Agricultural Statistics Service at 50 bushels per acre (bu/a), for 2018. This is a new record, above the previous record, set in both 2010 and 2016, of 49 bu/a. This is also an increase over the 42 bu/a for the 2017 harvest year. The harvested acreage in 2018 was 1.57 million acres (total production = 78.5 million bu) compared to 1.59 million acres in 2017 (total production = 66.8 million bu).

Rainfall for the 2017–2018 crop year was above average at all locations except Conrad (average) and both Carter/Fort Benton and Kalispell (below average, with a range of -2.87 inches at Kalispell to 8.38 at Huntley (Table 14)). Average yearly temperatures were below long term at all locations, except Kalispell, ranging from -3.8°F (Conrad) to +2.6°F at Kalispell (Table 14).

In 2017, ‘Yellowstone’ was miss-planted. No 2 year through 4 year comparisons could be made at any of the locations, except Kalispell and Williston, which were not harvested in 2017. Yields, for the 9 locations harvested averaged 77 bu/a (range 44 (Willison, hail impacted) to 132 bu/a (Bozeman)). Yields of named varieties, across the 7 harvested locations, ranged from a low of 68 bu/a (Bearpaw) to a high of 86 bu/a for Keldin.

Test weight averaged 61.6 lb/bu across all locations. Kalispell (58.4 lb/bu, heat and stripe rust), Williston (59.8), and Carter/ Fort Benton (59.9) were below 60 lb/bu, while the other 6 locations were above.

Heading dates were earlier in 2018 than long term averages at the 8 harvested locations where comparisons are available. Bozeman at -6 days had the greatest difference, while the least change occurred at Huntley (-2 days). Heading dates for all these stations averaged 6 days later than 2017.

Stripe rust at Bozeman, typically a yield reducing factor the previous 3 years (2015–2017), was practically non-existent in 2018. Stripe rust at Kalispell (data not recorded) was a factor in yield and test weight reduction for highly susceptible varieties (Bearpaw, Byrd CL Plus, Decade, Incline AX, SY 517 CL2, and WB4575).

There was sawfly cutting recorded at the Northern Seeds Carter/Ft. Benton site averaging 53%, ranging from 0 (Warhorse) to over 75% (Langan, LCS Zoom, SY Clearstone 2CL, and Yellowstone) of stems cut, across all entries. Sawfly cutting was also recorded at Havre (average = 6%, range 0 – 15%) and Conrad (average = 18%, range 1 – 42%).

Protein content averaged 12.6% across all locations (location range = 11.2 – 14.2%) tested. The range of named varieties across all locations was from a low of 11.5% (Langan, LCS Zoom, SY Clearstone 2CL, and Yellowstone) to 21% (Bearpaw, Byrd CL Plus, Decade, Incline AX, SY 517 CL2, and WB4575).

Treat all winter wheat seed with a recommended fungicide to reduce losses caused by cereal smut or other seed-borne diseases. Several non-mercurial compounds are registered for grain seed treatment.

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 Figure 2 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.

Figure 3. Seeding rate (bu/ac) and date for winter wheat

Seed Rate and Date

The following dates and rates 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 phosphorous amounts are applied at planting.

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

As to seeding date -- DO NOT SEED TOO EARLY in areas where root rot dis- CONTINUED ON PAGE B15

CONTINUED FROM PAGE B8

Backhoe for Sale

2014 Case 580SM backhoe, 4x4, extend-a-hoe, cab with heat, 1750 hours. Excellent condition.
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New Holland 688

New Holland 425 Rototiller

Highline CFR650 Baler, low use

Vermeer R2800

New Holland 5-ft. rototiller

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New Holland 666 baler $4000
Highline CF650 baler processor, low use $16,000
Highline 600 baler $3750
New Holland 425 square baler $2500
New Holland 1022 stack wagon $2000
New Holland 55 ft. rototiller $600
Vermcore R2800 rake $18,000
16’ offset disk $5000
Everman 5’ and 9’ scarper $9000
2 flatbed trailers - one gooseneck, one pintle hitch $Call
1988 International 9164 service truck, welder, compressor, tool boxes, 6000 lb. rating $16,000

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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.}

CONTINUED ON PAGE C16

Number of Farms In Washington: 39,500
Average Farm Size: 381 acres
Total Farmland: 14.9 million acres.
Winter wheat variety performance summary in Montana

CONTINUED FROM PAGE B15

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

<table>
<thead>
<tr>
<th>Variety</th>
<th>Experimental Designation</th>
<th>Origin</th>
<th>Release Year</th>
<th>Pedigrees</th>
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</thead>
<tbody>
<tr>
<td>AAC Wildfire</td>
<td>W512</td>
<td>Alberta</td>
<td>2015</td>
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<td>Bearpaw</td>
<td>MT50721</td>
<td>Montana</td>
<td>2011</td>
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<td>2010</td>
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<td>CO14A06</td>
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<td>Intine AX</td>
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<td>2015</td>
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<td>Quale</td>
<td>SD01057-2</td>
<td>South Dakota</td>
<td>2016</td>
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<td>Ray</td>
<td>MT14132</td>
<td>Montana</td>
<td>2018</td>
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<td>MT5098</td>
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New York: No masked demonstrations

It’s unlawful for three or more people wearing masks to gather in public for a demonstration or a march. Originally enacted in 1845, it entered the books when local tenant farmers disguised themselves as Native American and attacked and killed their landlords.

Missouri: Open castration allowed

Any bull or ram over the age of 1 year old runs rampant for more than three days, any person may castrate the animal without assuming liability for damage. Three town residents must attest in writing that the animal is loose, and its owner must fail to reclaim or confine the beast after notice is given.

North of Great Falls, MT

countryclipper.com

(406) 727-9994

CONTINUED ON PAGE C18

Trade's Dispatch, April 2019 — Page C16
Sod Buster Sales
Inc.

Farm Equipment Finding Service
35505 Gingras Springs Rd, Poiton, MT 59860
406-883-2118 or 1-877-735-2108

Winter wheat variety performance summary in Montana
CONTINUED FROM PAGE C16

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

<table>
<thead>
<tr>
<th>Variety</th>
<th>Experimental Designation</th>
<th>Origin</th>
<th>Release Year</th>
<th>Pedigree</th>
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<tr>
<td>MT1265</td>
<td>Yellowstone*24/16(LoI Pharma)/ris (LC39)</td>
<td>St. Claire</td>
<td>1980</td>
<td>MT1265/Low (MT1265)/ris (LC39)</td>
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<tr>
<td>MT1401</td>
<td>Yellowstone*24/16(LoI Pharma)/ris (LC39)</td>
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<td>MT1547</td>
<td>selection from a composite of 5 crosses: 0S2272, Yellowstone*16/16(LoI Pharma)/ris (LC39)</td>
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Public Elite Lines

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<td>1980</td>
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<tr>
<td>MT1401</td>
<td>St. Claire</td>
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<td>Ironton</td>
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</table>

North 40 Ag was the winner, for the 4th year in a row, of the Best in Show small booth at The MATE Show February 14-16, 2019 in Billings, MT
CONTINUED FROM PAGE C18

Table 3. HARD WINTER: District 1—Kalspell—Dryland (High Rainfall)

<table>
<thead>
<tr>
<th>Cultivar/Lines</th>
<th>Grain Yield (bushels/acre)</th>
<th>Test Weight</th>
<th>Heading Date</th>
<th>Plant Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>2018/19</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2019/20</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2018 Data

CONTINUED ON PAGE C30
2015 Cat 924K High Lift, 8835 hours, enclosed cab with heat and air conditioning, AM/FM, CD player, ride control, rear view camera, hydraulic coupler, air ride seat, reversing fan, 3 cubic yard bucket, like new condition... Located in Spearfish, SD. ........................................... $61,900

2014 Cat TH406C 2400 hours, enclosed cab with heat and air conditioning, 3-way steering, hydraulic quick coupler, auxiliary hydraulics, material bucket and forks, 20-ft. reach, 1510 lb. lift capacity, 16,000 lb. operating weight, very nice overall condition. We are a Grabtec dealer and can install a grapple on the bucket for $4750. Located in Spearfish, SD. ........................................... $73,900

2009 Cat TH406 5591 hours, enclosed cab with heat and air conditioning, air ride seat, AM/FM radio, hydraulic coupler, auxiliary hydraulics, rear hydraulic MTD hitch, 3 steering modes, 48" pallet forks, 95" Grabtec bucket with hay grapple, super clean telhander has been through the shop, just serviced. Located in Spearfish, SD. ........................................... $69,500

2004 John Deere 200C LC, 7155 hours, enclosed cab with heat and air conditioning, hydraulic thumb, 9'6" arm, 42" bucket, under carriage is in very good condition, 47,500 lb. operating weight, has been through all repairs have been done, just serviced, extremely nice and tight excavator. Located in Spearfish, SD. ........................................... $41,900

2002 Skytrak 6042 3821 hours, auxiliary hydraulics, 72" carriage, 48" forks, 3-way steering, foam filled bias tires, 6000 lb. lift capacity, 95" Grabtec bucket with hay grapple, very nice condition... Located in Spearfish, SD. ........................................... $49,400

2015 Cat 236D 375 hours, enclosed cab with heat and air conditioning, advanced display with rear view camera, electric quick coupler, 2-speed travel, bucket leveling, 1800 lb. operating capacity, 3660 lb. tip load, 6600 lb. operating weight, very nice machine in like new condition... Located in Spearfish, SD. ........................................... $38,900

2015 Cat 242D 375 hours, enclosed cab with heat and air conditioning, advanced display with rear view camera, heated air ride seat, electric quick coupler, 72" bucket with BOE, 2 speed travel, 74 hp, 2150 pound lift capacity, 4300 pound tip load, 7000 pound operating weight, very nice condition overall. Located in Spearfish, SD. ........................................... $21,500
**Winter wheat variety performance summary**

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

<table>
<thead>
<tr>
<th>Cultivar/Lines</th>
<th>Grain Yield (bu/acre)</th>
<th>Test Weight</th>
<th>Heading Date</th>
<th>Plant height</th>
<th>Protein</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Test</strong></td>
<td><strong>Octal</strong></td>
<td><strong>Calendar</strong></td>
<td><strong>Heading</strong></td>
<td><strong>Rating</strong></td>
<td><strong>%</strong></td>
</tr>
<tr>
<td><strong>Drought</strong></td>
<td><strong>2 yr. avg</strong></td>
<td><strong>2 yr. avg</strong></td>
<td><strong>2 yr. avg</strong></td>
<td><strong>2 yr. avg</strong></td>
<td><strong>2 yr. avg</strong></td>
</tr>
<tr>
<td><strong>Yield</strong></td>
<td><strong>2 yr. avg</strong></td>
<td><strong>2 yr. avg</strong></td>
<td><strong>2 yr. avg</strong></td>
<td><strong>2 yr. avg</strong></td>
<td><strong>2 yr. avg</strong></td>
</tr>
<tr>
<td><strong>2018</strong></td>
<td><strong>2017-16</strong></td>
<td><strong>2016-15</strong></td>
<td><strong>2015-16</strong></td>
<td><strong>2014-15</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Zellim</strong></td>
<td>44.0</td>
<td>44.0</td>
<td>44.0</td>
<td>44.0</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Cultivar/Lines</th>
<th>Grain Yield (bu/acre)</th>
<th>Test Weight</th>
<th>Heading Date</th>
<th>Plant height</th>
<th>Protein</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Test</strong></td>
<td><strong>Octal</strong></td>
<td><strong>Calendar</strong></td>
<td><strong>Heading</strong></td>
<td><strong>Rating</strong></td>
<td><strong>%</strong></td>
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<tr>
<td><strong>Drought</strong></td>
<td><strong>2 yr. avg</strong></td>
<td><strong>2 yr. avg</strong></td>
<td><strong>2 yr. avg</strong></td>
<td><strong>2 yr. avg</strong></td>
<td><strong>2 yr. avg</strong></td>
</tr>
<tr>
<td><strong>Yield</strong></td>
<td><strong>2 yr. avg</strong></td>
<td><strong>2 yr. avg</strong></td>
<td><strong>2 yr. avg</strong></td>
<td><strong>2 yr. avg</strong></td>
<td><strong>2 yr. avg</strong></td>
</tr>
<tr>
<td><strong>2018</strong></td>
<td><strong>2017-16</strong></td>
<td><strong>2016-15</strong></td>
<td><strong>2015-16</strong></td>
<td><strong>2014-15</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Zellim</strong></td>
<td>44.0</td>
<td>44.0</td>
<td>44.0</td>
<td>44.0</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Initials highest yield within a column.

**Winter Wheat variety performance summary continued from page C30**

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**Continued from page C30**

### COMBINE FOR SALE

**Case IH 2188**, with pickup and Honey Bee draper headers. Photos available.

Phone (701) 339-1288, Noonan, North Dakota

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**USED TRAILERS FOR SALE**

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Purchase both for... — $3500

Both tanks are in good condition, 1/4" wall thickness.

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**Hassan@midtirrers.com**

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Donald Kovacich Estate Aug. 2, 2019

Donald Kovacich Estate Aug. 10, 2019
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2017 Polaris Ranger
Crew XP 1000 • $19,699

SIDE-BY-SIDE FOR SALE
2008 Polaris Ranger crew cab
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Winter wheat variety performance summary
CONTINUED FROM PAGE C34
CONTINUED ON PAGE C40

Professional range organization recognizes UW Extension specialist

By University of Wyoming Extension

The University of Wyoming (UW) Extension range management specialist received an Outstanding Young Professional Award at the annual Society for Range Management (SRM) conference in Minneapolis, Minnesota, in February.

The award recognizes Derek Scasta for displaying superior performance and leadership in range-related areas, according to the SRM.

“We are always happy to discuss price and financing.
Call John, Breck or Jeff at 538-9435.
302 Truck Bypass • Lewistown
www.LewistownHonda.com

Professional range organization recognizes UW Extension specialist

By University of Wyoming Extension

The University of Wyoming (UW) Extension range management specialist received an Outstanding Young Professional Award at the annual Society for Range Management (SRM) conference in Minneapolis, Minnesota, in February.

The award recognizes Derek Scasta for displaying superior performance and leadership in range-related areas, according to the SRM.

“I have many mentors involved in SRM who are working for universities, agencies and ranches across the U.S., and so I am greatly humbled by this recognition,” said Scasta, an assistant professor in the Department of Ecosystem Science and Management in the College of Agriculture and Natural Resources.

While working at UW, Scasta developed two new courses – applied fire ecology and nutritional ecology and management of rangeland ungulates. He is adviser for the UW Range Club and coaches the Undergraduate Range Management Exam team.

Scasta has contributed to SRM and has demonstrated his commitment to developing future SRM members, according to the SRM.

He dedicated the award to his three daughters, his wife, Angie, who has always supported his work on rangelands, and to his parents and grandparents, who encouraged his interests in agriculture while growing up.

CONTINUED ON PAGE C40
Winter wheat variety performance summary

CONTINUED FROM PAGE C36

Table 10. HARD WINTER: District 6—Syracuse, Dryland

<table>
<thead>
<tr>
<th>Cultivar/Line</th>
<th>Grain Yield (bushel/acre)</th>
<th>Test Weight (g/lb)</th>
<th>Winter Hardness</th>
<th>Headling Date</th>
<th>Protein</th>
<th>Planting Date</th>
<th>2018 Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purple Shell</td>
<td>52.8</td>
<td>53.6</td>
<td>19.3</td>
<td>5-16</td>
<td>11.3</td>
<td>April 25</td>
<td>2018</td>
</tr>
<tr>
<td>Purple Shell</td>
<td>52.8</td>
<td>53.6</td>
<td>19.3</td>
<td>5-16</td>
<td>11.3</td>
<td>April 25</td>
<td>2018</td>
</tr>
<tr>
<td>Purple Shell</td>
<td>52.8</td>
<td>53.6</td>
<td>19.3</td>
<td>5-16</td>
<td>11.3</td>
<td>April 25</td>
<td>2018</td>
</tr>
</tbody>
</table>

CONTINUED ON PAGE C42

Table 11. HARD WINTER: District 6—Williston, North Dakota—Dryland

<table>
<thead>
<tr>
<th>Cultivar/Line</th>
<th>Grain Yield (bushel/acre)</th>
<th>Test Weight (g/lb)</th>
<th>Winter Hardness</th>
<th>Headling Date</th>
<th>Protein</th>
<th>Planting Date</th>
<th>2018 Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purple Shell</td>
<td>52.8</td>
<td>53.6</td>
<td>19.3</td>
<td>5-16</td>
<td>11.3</td>
<td>April 25</td>
<td>2018</td>
</tr>
<tr>
<td>Purple Shell</td>
<td>52.8</td>
<td>53.6</td>
<td>19.3</td>
<td>5-16</td>
<td>11.3</td>
<td>April 25</td>
<td>2018</td>
</tr>
<tr>
<td>Purple Shell</td>
<td>52.8</td>
<td>53.6</td>
<td>19.3</td>
<td>5-16</td>
<td>11.3</td>
<td>April 25</td>
<td>2018</td>
</tr>
</tbody>
</table>

*No harvest in 2017 due to severe winterkill***
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- Post Office Box 130 Three Forks, MT 59752

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### Winter wheat variety performance summary

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duration</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
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<td>24</td>
<td>46</td>
<td>45</td>
<td>43</td>
<td>14</td>
<td>37</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>63.1</td>
<td>64.2</td>
<td>60.4</td>
<td>50.0</td>
<td>61.8</td>
<td>68.8</td>
<td>68.3</td>
</tr>
</tbody>
</table>

CONTINUED FROM PAGE C40


**No noticeable winter kill, with a hardy in 2016 and 2017.**

---

### TABLE 13: HARD WINTER WHEAT: Yield Performance under Summer Programs and % Satisfy Cutting (2011/2018)

**Note:** Satisfy cutting in each location vary.

- **Average:**
  - 2016/17: 11.6
  - 2017/18: 11.3
  - 2018/19: 11.3

---

**Winter wheat variety performance summary**

CONTINUED ON PAGE C46
CERTIFIED SEED FOR SALE
Certified Vida spring wheat and Certified Lavina barley seed. MBP Seeds
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LAND FOR SALE
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Salmon, ID 83467
(208) 940-1885

All rights, older ranch home plus outbuildings including large calving barn and horse barn. Sale price $5.5 million.

LCS Zoom – hard red winter wheat developed by Limagrain LLC and released in 2018. LCS Zoom is a medium-maturing, hollow-stemmed, short wheat with red chaff. LCS Zoom has above average yield, average test weight, and average protein with above average winter survival. Resistance or susceptibility to stripe rust, under Montana conditions, has not been determined for LCS Zoom. Mill and bake characteristics, under Montana conditions, have not been determined. PVP, Title V will be applied for. Additionally, the CLEARFIELD genes are patented.

AAC Wildfire – hard red winter wheat developed by Agriculture and AgriFoods Canada in Alberta, released in 2015, and marketed by SECAN. AAC Wildfire is a late maturing, hollow-stemmed, tall wheat with red chaff. AAC Wildfire has not been determined. PVP, Title V will be applied for. Additionally, the CLEARFIELD genes are patented.

For any questions or a showing (or to BUY!!), please call Broker Mark Pyrk at 406-788-9280 or Broker Shane Ophus at 406-788-6662
406-622-3803 www.fbrrealty.com

CONTINUED ON PAGE C47
wheat with white chaff. SY Legend CL2 has below average yield, above average test weight, and average protein with below average winter survival.

Resistance or susceptibility to stripe rust, under Montana conditions, has not been determined for SY Legend CL2. Mill and bake characteristics, under Montana conditions, have not been determined PVP, Title V will be applied for. Additionally, the CLEARFIELD genes are patented.

Lines approved for variety release in 2019, names to be determined later:

MT1564 (name pending) – hard red winter wheat developed by the Montana Agricultural Experiment Station and available to certified seed growers in fall 2019. MT1564 is an early maturing (especially for a Montana line), hollow-stemmed, medium height wheat with white chaff. MT1564 has average yield, above average test weight, and average protein, with average winter survival. MT1564 has excellent resistance to stripe rust and is moderately resistant to both stem rust and dwarf bunt. MT1564 has medium PPO and above average milling and baking characteristics. PVP, Title V will be applied for.

MTS1588 (name pending) – hard red winter wheat developed by the Montana Agricultural Experiment Station and available to certified seed growers in fall 2019. MTS1588 is a medium maturing, solid-stemmed, short wheat with white chaff. MTS1588 has above average yield and test weight, average protein, with average winter survival. MTS1588 has the highest yield and lowest percent sawfly cutting, of all varieties, in trials where sawfly pressure was above 10% cutting. MTS1588 has excellent resistance to stripe rust and is moderately susceptible to stem rust. MTS1588 has medium-low PPO and above average milling and baking characteristics. PVP, Title V will be applied for.

MTCL1601 (name pending) – hard red winter wheat designated for variety release in 2019, names to be determined later for SY Legend CL2.

CONTINUED ON PAGE C48
**CONSTRUCTION EQUIPMENT FOR SALE**

John Deere 450G PTO dozer, ripper, new undercarriage $27,500
2008 Yanmar VIO45 mini excavator, hydraulic thumb, blade, pin grabber $29,500

Older Cat 966C loader... $19,500
1996 Hitachi 200CL excavator, thumb, extra buckets... $39,500
Custom flatted with knuckleboom crane, custom tool boxes $15,500

**“SLOWING DOWN” SALE**

2012 Krone EasyCut 3210 CV swivel tongue moco. Low acres, well maintained, shed stored $18,500

Kuhn SR 110 GII 10 wheel speed rake. Excellent shape $5800

John Deere 3945 switch plow (4 bottom), extra shears included. Very good $3250

Graham-Hoeme 10-ft. chisel plow with lift cylinder. Spikes and good shovels included $1250

12-ft. roller harrow (Brillion?), presently under big snowdrift! $2000


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---

**CONSTRUCTION EQUIPMENT FOR SALE**

John Deere 3020 diesel tractor, loader and quick attach bucket. PowerShift, single hydraulic, 3 point, 2 speed PTO. Recent new front pump, rockshaft, seals and radiator. Decent old tractor used mostly for raking $8500

John Deere 3945 switch plow (4 bottom), extra shears included. Very good $3250

Graham-Hoeme 10-ft. chisel plow with lift cylinder. Spikes and good shovels included $1250

12-ft. roller harrow (Brillion?), presently under big snowdrift! $2000


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**Winter wheat variety performance summary**

CONTINUED FROM PAGE C47

Winter wheat variety performance summary

CONTINUED ON PAGE C49

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a full partnership agreement with BASF Chemical Company. MTCL1601 will be available to certified seed growers in fall 2019. MTCL1601 is a medium maturing, semi-dwarf, medium height wheat, with white chaff. MTCL1601 has average yield, above average test weight, and average protein, with good winter survival. MTCS1601 has high PPO and average milling and baking characteristics. PVP, Title V will be applied for. Additionally, the CLEARFIELD genes are patented.

**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. Stemsolidness of Bearpaw is most similar to Rampart. Bearpaw is a high PPO variety with above average milling and below average baking properties. PVP, Title V option has been issued (Certificate #201100096).
FourOsix - hard red winter wheat developed by the Montana Agricultural Experiment Station and available to seed growers in fall 2018. FourOsix is a medium maturing, short to medium statured wheat, with average winter-hardiness. FourOsix is a high yielding variety with above average test weight and average protein. FourOsix (50% Yellowstone, in pedigree) is similar in grade of Yellowstone - but with significantly earlier heading, shorter plant height, and significantly higher test weight and protein. FourOsix is resistant to stripe rust. FourOsix is moderately susceptible to stem rust. FourOsix has excellent milling and baking qualities, comparable to Decade and parental cultivar, Yellowstone. PVP, Title V will be applied for.

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 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 below average winter hardiness. Judee is susceptible to prevalent races of stem and leaf rust but resistant to stripe rust.

Keldin – hard red winter wheat developed by Peter Franck (Germany) and released by WestBred in 2011. Keldin is a medium maturing, short to medium statured wheat, with average winter-hardiness. Keldin is resistant to stripe rust. Keldin has above average yield and test weight and average protein. Keldin is moderately susceptible to stem rust. Keldin is a high yielding variety with above average test weight and average protein. Keldin is resistant to stripe rust. Keldin is moderately susceptible to stem rust.

We'd appreciate it if you tell an advertiser you read his ad in the Trader's Dispatch.
WINTER WEATHER SUMMARY IN MONTANA

CONTINUED FROM PAGE C49

Langan – hard red winter wheat developed by Colorado and released in 2016. Langan is an early maturing, short statured wheat, with white chaff. Winter-hardiness is average. Langan has average yield and test weight and below average protein. Langan is moderately susceptible to stripe rust. Langan is a high PPO variety with below average mill and average bake characteristics. PVP, Title V is pending (Certificate #201700021).

Long Branch – hard red winter wheat developed by Limagrain LLC and released in 2016. Long Branch is an early maturing, short statured wheat, with white chaff. Winter-hardiness is average. Long Branch has above average yield and test weight and below average protein. Long Branch is resistant to stripe rust and average bake characteristics, under Montana conditions, have not been determined. PVP, Title V is pending (Certificate #201700105).

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).

Ray – a hard red winter wheat developed by the Montana Agricultural Experiment Station and available to growers in fall 2015. Ray is a late maturing, tall, awnless line developed for forage production as a possible replacement (or supplement) to Willow Creek (MT, 2005). Compared to Willow Creek, Ray has similar forage yield and forage quality, but superior seed yield, compared to conventional bread wheats. Ray has average above yield, below average test weight, and average protein. Ray is resistant to stripe rust susceptible to stem rust. Ray has low PPO and average milling and baking characteristics. PVP, Title V will be applied for.

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

<table>
<thead>
<tr>
<th>Variety</th>
<th>Trait</th>
<th>Value</th>
<th>Cereal Quality</th>
<th>Disease Reaction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chaff Color</td>
<td>White</td>
<td>Bright</td>
<td>MR</td>
</tr>
<tr>
<td></td>
<td>Wheat Color</td>
<td>White</td>
<td>Bright</td>
<td>MR</td>
</tr>
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<td></td>
<td>Bread Quality</td>
<td>Satisfied</td>
<td>Satisfied</td>
<td>MR</td>
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<td></td>
<td>Washability</td>
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<td>2</td>
<td>MR</td>
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<td></td>
<td>Dough Strength</td>
<td>Strong</td>
<td>Strong</td>
<td>MR</td>
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<td></td>
<td>Hardening Resistance</td>
<td>Good</td>
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<td>MR</td>
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<td>Sourdough贻义</td>
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<td>Good</td>
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<td>Spring Wheat</td>
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<td>MR</td>
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<tr>
<td></td>
<td>Gluten Strength</td>
<td>Strong</td>
<td>Strong</td>
<td>MR</td>
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<tr>
<td></td>
<td>Milling Yield</td>
<td>Good</td>
<td>Good</td>
<td>MR</td>
</tr>
<tr>
<td></td>
<td>Bake Properties</td>
<td>Good</td>
<td>Good</td>
<td>MR</td>
</tr>
</tbody>
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1993 International 4900 6 years
New 230 hp DTA466 diesel, 6 speed Allison, PS, AC, exhaust brake, air brakes, double frame, low bed frame, trailer hookups, 90% 11R22.5’s, 32K Gvw. Very nice clean, tight truck.

1994 Ford F600 18-ft. Flatbed
160 hp 5.9 Cummins, 5 & 2 speed, 26,000 gvw, 129,000 miles, 75% 10R22.5’s, PB, PS, double frame drives great.

1997 GMC C7500
250 hp. Cat diesel, 6 speed Allison, 137 miles, AB, PS, 11R22.5’s 90%, trailer hookups, 33K Gvw $10,500

1998 Cat Trk 130cc skid steer
4 cylinder Kubota diesel, 2650 hours, 66” bucket, Bobcat quick connect, 60% tires, auxiliary hydraulics. Works great, engine smokes a little.

1999 Fiat-Allis FG105A
Series B
5044 hours, 6x6, 200 hp 8.3 Cummins turbo, 6 speed PowerShift, heat and air conditioning, 14-ft. blade, 60% 14x00R24 tires, auxiliary hydraulics, articulated. Nice tight machine with no computer.

2005 Sterling L8500 Tractor
250 hp. Cat C7, 7 speed, 85% 11R24.5’s. AC, AR, 240,000 miles, 32K GWW, R5.5, drives great.

2006 International Flatbed
33K gvw, 91,000 miles, 240 hp DTA466 diesel no computer, 5K2 speed, air brakes, double frame, PTO, full trailer hookups, 90% 11R22.5’s, exhaust brake, 12-ft. bed. Nice clean, tight truck $13,500.

2009 Ford F700 18-ft. Flatbed, 1757 Cummins, 5 & 2 speed, 28K GWW, 109K miles, 75% 10R22.5’s, PB, PS, double frame drives great $9500.
Winter wheat variety summary in Montana

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SY 517 CL2 – a 2-gene CLEARFIELD hard red winter wheat developed by Montana Agricultural Experiment Station. SY 517 CL2 is a medium PPO variety with average mill and below average bake characteristics. PVP, Title V is pending (Certificate #201700216). Additionally, the CLEARFIELD genes are patented.

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 hardness. 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 average 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 stawhared 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 below average 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 stawhared 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 #201100390). SY Wolf will not be in the Montana Intrastate Winter Wheat Test for 2019.

SY Wolf – hard red winter wheat developed by Syngenta (AgriPro) Seeds in 2010. SY Wolf is a medium maturing, short stawhared wheat with white glumes. SY Wolf has above average yield and test weight and average protein. Winter-hardiness is average, SY Wolf is moderately susceptible to moderately resistant (MS 5/6) to stripe rust, but resistant to stem rust. SY Wolf has average milling and below average baking properties. PVP, Title V has been issued (Certificate #201100390). SY Wolf will not be in the Montana Intrastate Winter Wheat Test for 2019.

Warhorse - is an awned, white glumed, solid-stemmed hard red winter wheat released by WestBred in 2013 by Montana Agricultural Experiment Station. Warhorse has medium maturity and has medium short, semi-dwarf height. Warhorse’s winter hardness, 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 sawdust is very low. Warhorse is resistant to both stripe and stem rust. Warhorse yield is similar to Judec, 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).

WB4483 – hard red winter wheat developed by WestBred/Monsanto in 2016, WB4483 is solid stawhared, late maturing, short to medium stawhared wheat, with white chaff. WB4483 has slightly below average yield and average test weight and protein. WB4483 is moderately susceptible to stripe rust. WB4483 is a high PPO variety with average mill and below average bake characteristics under Montana conditions. PVP, Title V is pending (Certificate #201600380). WB4483 will be in the Montana Intrastate Winter Wheat Test for 2019.

WB4575 – hard red winter wheat developed by WestBred/Monsanto in 2016. WB4575 is a medium maturing, short to medium stawhared wheat, with white chaff. WB4575 has below average yield and above average protein, test weight and hardness. WB4575 is susceptible to stripe rust. WB4575 is a medium PPO variety with average mill and above average bake characteristics under Montana conditions. PVP, Title V is pending. WB4575 will not be in the Montana Intrastate Winter Wheat Test for 2019.

WB4614 – hard red winter wheat developed by WestBred and released in 2013. WB4614 is a medium maturing, medium short stawhared 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 #201500370). WB4614 will not be in the Montana Intrastate Winter Wheat Test for 2019.

Most of this summary of winter wheat varieties was compiled by John Slaats. We gratefully acknowledge his work in preparing this information. The data is based on the information made available to us by Montana farmers who grow these varieties. It is not our intention to make any recommendations about the use of these varieties. If you have any questions about these varieties, it is advisable to contact the seed companies directly or the Montana Agricultural Experiment Station, Bozeman.