Spring Wheat Variety Performance Summary in Montana

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INTRODUCTION

The agronomic characteristics of spring wheat varieties evaluated by the Montana Agricultural Experiment Station are compared in this publication with other varieties commonly grown in the state. The objective of this summary is to help farmers select the wheat variety which will perform best in their area. Data from 2015-2018 is provided for each of the testing sites. Data for varieties grown in previous years can be found on this website: http://plantsciences.montana.edu/crops/index.html.

The map on the cover shows the districts in the state for purposes of reference for specific areas of adaptation. A brief description is given which may include a variety’s particular advantages or disadvantages. The information was extracted from data collected and analyzed from the Advanced Spring Wheat nursery. These reports are prepared by research personnel of the Montana Agricultural Experiment Station.

VARIETY TESTING PROCEDURES

Locality

Typically, the Advanced Spring Wheat nursery is planted at 8 Montana sites; including Bozeman (dryland), Kalispell (high rainfall), Havre (dryland), Sidney (dryland and irrigated), Huntley (dryland), Moccasin (dryland) and Conrad (dryland).

Experimental Design and Data Collection

Varieties currently recommended, widely grown, or recently released are evaluated for agronomic performance in the Advanced Spring Wheat Nursery. Also evaluated in these nurseries are experimental breeding lines tested against the check varieties.

Agronomic data collected throughout the growing season includes heading date, plant height, lodging, disease and insect reactions.

Experimental plots are trimmed, measured and harvested with small plot combines. The grain is weighed for yield and test weight. One trait important to wheat growers is resistance to the wheat stem sawfly. The major mode of resistance is a solid versus hollow stemmed variety. To evaluate this trait we cut several stems of each variety and score them on a scale of 1=hollow, 2=2/5 solid, 3=3/5 solid, 4=4/5 solid and 5=5/5 solid. Entries are scored in the center of each internode, so there are 5 scores per stem. The five scores are added up to get a total number ranging from 5=very hollow up to 25=very solid. Entries are submitted to the Cereal Quality Lab at MSU. Bozeman, Montana. The seeds are elliptical with white chaffed, semi dwarf, hard red spring wheat. The spike is mid-dense, strap shaped and awned. The seeds are red, ovate with a medium crease and brush. Conan is resistant to the prevalent race of stem rust in Montana. Conan has good grain protein and acceptable milling and baking quality. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

DUCLAIR – Developed and released by the Montana Agricultural Experiment Station in 2003. Chouteau was derived from the cross of MT 9401/MT 9328. Chouteau is a semi dwarf hard red spring wheat with solid stems conferring tolerance to the wheat stem sawfly. The spike is lax and tapered with white awns and glumes. Kernels are red, ovate with a medium crease and brush. Conan is resistant to the prevalent race of stem rust in Montana. Conan has good grain protein and acceptable milling and baking quality. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

CONGRATULATIONS! Developed and released by WestBred, LLC in 2006. Corbin is a hard red spring wheat derived from the cross Border/Conan. This line is best adapted to the wheat stem sawfly areas of Montana. Corbin is a gene semi-dwarf with moderately strong straw. Disease/sawfly ratings for Corbin show it to be moderately resistant to stripe rust and leaf rust, and has shown good tolerance to Septoria and Tan spot. This variety is protected under the Plant Variety Protection Act.

CARB – Developed and released by WestBred, LLC in 2006. Corbin is a hard red spring wheat derived from the cross Border/Conan. This line is best adapted to the wheat stem sawfly areas of Montana. Corbin is a gene semi-dwarf with moderately strong straw. Disease/sawfly ratings for Corbin show it to be moderately resistant to stripe rust and leaf rust, and has shown good tolerance to Septoria and Tan spot. This variety is protected under the Plant Variety Protection Act.

DUCLAIR – Developed and released by the Montana Agricultural Experiment Station in 2003. Chouteau was derived from the cross of Chouteau/ND690/MT9433. Duclair is an awned semi dwarf hard red spring wheat heading one day earlier than and growing – one inch taller than Chouteau. Duclair generally has more solid stems than Fortuna but the race of stem rust in Montana. Duclair is resistant to the prevalent races of stem rust and has moderately good resistance to stripe rust in Montana. Duclair exhibits acceptable milling and baking traits. This variety is protected under the
Start Christmas shopping now by keeping a list on your phone and updating it whenever you see or hear a good gift idea for someone. It will make things so much easier come December.

Popcorn is the healthiest snack. It builds bone, muscle, tissue, aids digestion, and is good for the teeth.

A boiled egg is hard to beat.

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Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

JEDD – Jedd was developed by WestBred, LLC from the cross4*Hank//SW P965-001/Teal11A and released in 2008. Jedd contains two patented genes (L1B S653N and L1D S653N) that confer tolerance to the BASF grass herbicide “Beyonc” (imazamox). Jedd is semi dwarf with good lodging resistance and is medium in heading and maturity. Jedd yields well and has good test weight. Jedd is moderately susceptible to races of stripe rust in western Montana and has good tolerance to Hessian fly biotypes in Washington, but the reaction is unknown for Montana biotypes. Jedd has average grain protein and acceptable milling and baking quality. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

KELBY – Kelby was developed by AgriPro and released to AgriPro Associates in 2006. Kelby was derived from the cross N97-001173/92-009/853/Sumai 3/Dalen. It is a hollow stemmed, semi dwarf, hard red spring wheat. Kelby is an early heading spring wheat and maintains a good test weight across locations. Kelby has the Asian background (Sumai 3) for fusarium head blight resistance giving it an intermediate scab tolerance. It is resistant to stem and leaf rust and shows good tolerance to leaf spotting diseases. It shows moderate susceptibility to stripe rust. Kelby is susceptible to damage by the wheat stem sawfly. Grain protein of Kelby is good and the milling and baking quality is acceptable. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

LANNING – Lanning hard red spring wheat was released by the Montana Agricultural Experiment Station due to its yield potential in dryland areas of Montana and its superior end-use quality. Lanning was derived from the cross ‘Glenn’/MT0747 by single seed descent beginning in the F2 generation. Lanning has grain yield similar to ‘Vida’ with higher grain protein and stronger gluten characteristics than Vida. Lanning is hollow-stemmed, suggesting that it will be susceptible to damage caused by the wheat stem sawfly (Cephus cinctus Nort.). This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

McNEAL – Developed in response to identification of the orange wheat blossom midge (OWBM) as a serious yield and quality-reducing pest of spring wheat in the Flathead Valley. The source of resistance is a single gene, referred to as Sm1, which causes mortality of the young larvae feeding on developing seed. McNeal has the pedigree (McNeal*5/Glipro)2*/CAP19/Choteau. Glipro was developed by North Dakota State University, and contains a chromosome segment from the wheat relative Triticum dicoccoides. CAP19 (Reeder/BW-277) was developed by North Dakota University and contains the Sm1 gene for OWBM resistance. To avoid development of resistance in the OWBM to the effect of the Sm1 gene, McNeal should be grown in a 90:10 blend with an OWBM-susceptible spring wheat variety. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

Fortuna is hollow-stemmed, resistant to leaf rust and stripe rust. It is susceptible to damage caused by the wheat stem sawfly. Grain protein of Fortuna is good and the milling and baking quality is acceptable. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

Glupro was developed by AgriPro and released to AgriPro Associates in 2006. Glupro was developed by the Montana Agricultural Experiment Station due to its yield potential in dryland areas of Montana and its superior end-use quality. Glupro was derived from the cross ‘Glenn’/MT0747 by single seed descent beginning in the F2 generation. Glupro has grain yield similar to ‘Vida’ with higher grain protein and stronger gluten characteristics than Vida. Lanning is hollow-stemmed, suggesting that it will be susceptible to damage caused by the wheat stem sawfly (Cephus cinctus Nort.). This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

Egan was developed by variety name as a class of certified seed. Egan should be grown in a 90:10 blend with an OWBM-susceptible spring wheat variety. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.
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SY TYRA – SY Tyra is a hard red spring wheat initially developed at Montana State University for release by Montana AgriPro Associates. It originated from a marker assisted backcross project with the final cross as Choteau/4*Norpro. It has semi-solid stem which confers some tolerance to the wheat stem sawfly and resistance to leaf rust. It is a short semi-dwarf, similar to Brennan. SY Tyra was released in 2011. SY Soren is a high yielding hard red spring wheat that is intended to replace Conan and Corbin acres. SY Soren is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

SY REEDER – SY Reeder is a medium- tall, awned wheat developed by Syngenta Seeds, Inc. and released to Montana Agricultural Experiment Station from a cross of Scholar/Reeder made in 1998 by the Montana Agricultural Experiment Station. SY Reeder was released in 2008. SY Reeder is a medium- tall, awned hard red spring wheat with white glumes and awns. Kernels are red, oval with rounded crease. SY Reeder has resistance to the wheat stem sawfly and prevalent races of leaf rust. SY Reeder is resistant to prevalent races of leaf rust. SY Reeder is resistant to prevalent races of leaf rust.

SPRING WHEAT VARIETY PERFORMANCE SUMMARY IN MONTANA
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 qualities are acceptable by industry. MOTT – Developed by North Dakota State University and released by the North Dakota Agricultural Experiment Station in 2009. MOTT was released primarily for its resistance to the wheat stem sawfly and adaptation to the western region of North Dakota. It is a medium- tall, awned wheat that matures approximately 2 days later than Reeder and Choteau. MOTT is susceptible to OSB, is moderately susceptible to prevalent races of leaf rust. It is resistant to moderately resistant to prevalent races of stem rust. It is susceptible to tan spot and resistant to Stagonospora leaf blotch. MOTT has good milling and baking characteristics and better than average grain protein content.

NS PRESSER CLP – NS Presser CLP hard red spring wheat (Triticum aestivum L.) was developed by the Montana Agricultural Experiment Station and released in 2010 to the commercial partner Northern Seed LLC. NS Presser CLP is a two-gene Clearfield wheat intended for use with the selective imidazolinone herbicide imazamox (Beyond, BASF Corp.). NS Presser CLP was developed by a single backcross of alleles for resistance to the imidazolinone herbicide class into the recurrent parent Vida. Yield trials at sites in Montana showed that NS Presser CLP has yield potential under dryland production similar to Vida. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

ONEAL – ONEAL is a hard red spring wheat developed by WestBred, LLC from the cross McNeal/WestBred 906R and released in 2008. ONEAL is a hollow stemmed, semi dwarf wheat with red chaff. ONEAL heads about the same as McNeal and one day later than Choteau. ONEAL is susceptible to stripe rust. Test weight of ONEAL is average with grain protein, milling and baking traits similar to McNeal. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

REEDER – Developed by the North Dakota Agricultural Experiment Station from the cross LAS4/H567.7/L/2stou3/3/ND674. Reeder was released in 1999. Reeder is an awned, semi dwarf hard red spring wheat. Reeder yields well especially in northeastern Montana and western North Dakota. Reeder has resistance to the upper Midwest races of stem and leaf rust. Milling and baking qualities are acceptable. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

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Yellow (Stripe) Rust and Bacterial Leaf Streak resistance similar to WB9879CLP with superb standability. Excellent Gunnison with similar grain protein. It has a plant height. It has improved grain yield potential when compared to WB.

WB9719 is a dryland adapted, medium-late maturing variety. It was released by WestBred, a division of Bayer Crop Science, in 2016. WB9719 – WB9719 hard red spring wheat was released by WestBred, a division of Bayer Crop Science, in 2016. WB9590 is a broadly adapted variety with outstanding performance on both dryland and irrigated acres. It has improved grain yield potential when compared to WB Gunnison with similar grain protein. A short plant height contributes to its superb standability. Very good Yellow (Stripe) Rust and Bacterial Leaf Streak resistance.

WB9590 – WB9590 hard red spring wheat was released by WestBred, a division of Bayer Crop Science, in 2016. WB9719 is a hard red spring wheat developed for CROPLAN by WinField United from a cross of Kuntz / Norpro. PVP certificate was issued in 2016. HRS 3616 is currently licensed exclusively to CROPLAN by WinField United and protected under the Plant Variety Protection Act. Seed can only be used as quality assured grown by variety name. HRS 3616 – HRS 3616 hard red spring wheat was released by CROPLAN by WinField United from a cross of Kuntz / Norpro. PVP certificate was issued in 2016. HRS 3616 is a hard red spring wheat developed for CROPLAN by WinField United and protected under the Plant Variety Protection Act. Seed can only be used as quality assured grown by variety name.

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test weight. Its straw strength is excellent and it’s resistant to stripe and leaf rust. It is CROPLAN’s best for bacterial leaf streak and pre-sprouting tolerance. HRS 3504 has average grain protein and acceptable milling and baking quality. HRS 3504 is currently licensed exclusively to CROPLAN by WinField United and protected under the US patent law. Seed can only be used as quality assured grown by variety name. HRS 3616 is a hard red spring wheat developed for CROPLAN by WinField United and protected under the Plant Variety Protection Act. Seed can only be used as quality assured grown by variety name.

WB9590 – WB9590 hard red spring wheat was released by WestBred, a division of Bayer Crop Science, in 2016. WB9719 is a hard red spring wheat developed for CROPLAN by WinField United and protected under the Plant Variety Protection Act. Seed can only be used as quality assured grown by variety name. HRS 3616 is a hard red spring wheat developed for CROPLAN by WinField United and protected under the US patent law. Seed can only be used as quality assured grown by variety name.

Whoever said ‘nothing is impossible’ obviously hasn’t tried nailing jelly to a tree.

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retriever bed .........................................
New Holland 8500 round bale wagon. Nice condition ......
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self-propelled, hauls 80 bales ..............
New Holland 1046 New Holland Super 1049 balewagon ............................
New Holland 1032 rebuilt ................................................
New Holland 1032 rebuilt balewagons ............
New Holland 1033s balewagons, rebuilt ....
New Holland 1068 pull-type, hauls 160 bales .................
New Holland 1063 bale wagons .......................
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**Spring Wheat Variety Performance Summary in Montana**

**2015-2016 ADVANCED SPRING WHEAT NURSERY, JUNTLLEY; District 3**

**VARiETY**

<table>
<thead>
<tr>
<th>YIELD (bu/acre)</th>
<th>TEST WEIGHT (lbs/bu)</th>
<th>PROTEIN (%)</th>
<th>PLANT BUDGET HEADS (liters/acre)</th>
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<td>66.0</td>
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<td><strong>HMS 1816</strong></td>
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<td>73.7</td>
<td>70.5</td>
</tr>
<tr>
<td><strong>HMS 1907</strong></td>
<td>72.6</td>
<td>73.7</td>
<td>70.5</td>
</tr>
<tr>
<td><strong>ALISM 945</strong></td>
<td>89.4</td>
<td>74.4</td>
<td>79.5</td>
</tr>
<tr>
<td><strong>LCS REBEL 1</strong></td>
<td>75.7</td>
<td>72.0</td>
<td>75.4</td>
</tr>
</tbody>
</table>

**1)** No planting in 2015, 2016 (17-18)

**CONTINUED FROM PAGE C48**

**Dumbest Laws in Every State**

**Ohio:** Toilet paper in coal mines, please!
Operators of underground coal mines must provide “an adequate supply of toilet paper” with each toilet. It’s too bad the letter of the law stops at coal mines.

**Virginia:** No unmarried sex
Except for married couples, sex is completely banned in Virginia. No matter your age or your partner’s, breaking this law results in a Class 4 misdemeanor.

**Arkansas:** Must pronounce state name correctly
Visitors beware: it is strictly prohibited to pronounce “Arkansas” incorrectly. Per the state Code, the only acceptable pronunciation is “in three (3) syllables, with the final ‘s’ silent, the ‘a’ in each syllable with the Italian sound, and the accent on the first and last syllables.” So keep your Arkan-sass to yourself.
**Spring Wheat Variety Performance Summary in Montana**

CONTINUED FROM PAGE C52

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### 2015-2016 ADVANCED WHEAT-EARNEST, LAVURE, District 5

| VARIETY | YIELD (Bu/AC) | TEST WEIGHT (Lb/Bu) | PROTEIN (%) | PLANT HEIGHT (

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### 2015-2016 ADVANCED WHEAT-EARNEST, SIDNEY (Dry), District 6

| VARIETY | YIELD (Bu/AC) | TEST WEIGHT (Lb/Bu) | PROTEIN (%) | PLANT HEIGHT (IN) | LUINAGE | ENVIRONMENT |

---

### 2015-2016 ADVANCED WHEAT-EARNEST, BONDI (irrigated), District 6

| VARIETY | YIELD (Bu/AC) | TEST WEIGHT (Lb/Bu) | PROTEIN (%) | PLANT HEIGHT (IN) | LUINAGE | ENVIRONMENT |

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**Dumbest Laws in Every State**

Vermont: Energy resources supported

The Vermont legislature created a law that prohibits outlawing clotheslines — proof that governments don’t always abuse their powers. The same statute also states that no law can ban solar collectors, listing both items as “energy devices based on renewable resources.”

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**Trader's Dispatch, March 2019 — Page C54**

The deadline for advertising for the April issue of the Trader’s Dispatch will be March 27th.

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**Spring Wheat Variety Performance Summary in Montana**

CONTINUED FROM PAGE C52

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### 2015-2016 ADVANCED WHEAT-EARNEST, LAVURE, District 5

| VARIETY | YIELD (Bu/AC) | TEST WEIGHT (Lb/Bu) | PROTEIN (%) | PLANT HEIGHT (IN) | LUINAGE | ENVIRONMENT |

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### 2015-2016 ADVANCED WHEAT-EARNEST, SIDNEY (Dry), District 6

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