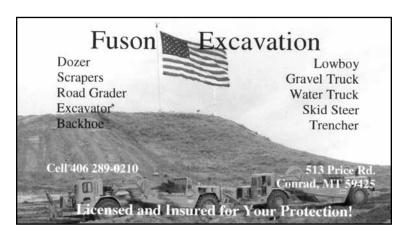
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MONTANA COUNTIES



Winter wheat variety performance summary in Montana

By J. E. Berg, Research Associate, MSU; P. L. Bruckner, Professor, MSU; P. Carr, Superintendent and Associate Professor of Agronomy, Central Ag Research Center, Moccasin; C. Chen, Superintendent and Associate Professor of Agronomy, Eastern Ag Research Center, Sidney; C. Cook, Research Manager, Northern Seeds; J. Eberly, Assistant Professor, Central Ag Research Center, Moccasin; Z. T. Fang, Research Associate, Northwestern Ag Research Center, Moccasin; K. D. Kephart, Superintendent and Professor of Agronomy, Southern Ag Research Center, Huntley; C. Kowatch-Carlson, Research Assistant, Eastern Ag Research Center, Sidney; P. Lamb, Research Scientist and Agronomist, Northern Ag Research Center, Havre; A.T. Link, Agronomy Research Associate, Williston Research and Extension Center, North Dakota State University; K. McNamara, Research Associate, Northern Ag Research Center, Havre; J. H. Miller, Research Associate, Western Triangle Ag Research Center, Conrad; G. Pradhan, Research Associate, Western Triangle Ag Research Center, Conrad; V. Smith, Research Associate, Southern Agricultural Research Center, Huntley; J. A. Torrion, Superintendent and assistant Professor of Crop Physiology, Northwestern Ag Research Center, Kalispell; D. Holen, Montna Foundation Seed Stocks Manager, MSU; D. Nash, Cereal Quality Lab Manager, MSU; and H. Unverzagt, Montana Seed Growers Association, MSU.

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. 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 2018.

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 2018 are listed with their origins, experimental

designation, release year, and pedigrees in Table 2 for the hard winter wheats. Fortynine hard wheats are included in this summary comprising 33 varieties (15 public and 18 private) and 16 experimental lines (15 public and 1 private). Numbered entries preceded by a state designation [e.g. MT1642 (Montana) or private company, PSB13NEDH-7-140, (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 (7row), 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 1 million seeds/acre, except at Kalispell (1.25 million) and Williston (1.17 million seeds/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 2018, data is provided for two (2017-2018), three (2016-2018) and four (2015-2018)

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Winter wheat variety performance summary in Montana

CONTINUED FROM PAGE B2

Table 1. Summary of agronomic practices used on hard winter wheat performance trials in Montana in 2018. Fall nitrogen (N), phosphorus (P₂0₅) and potassium (K₂O) were preplant applied and incorporated.

			2017		Ferti	lizer		2018
	2017	2016	Planting		N			Harvest
Location	Crop	Crop	Date	Fall	Spring	P_2O_5	K₂O	Date
					- Pounds	per acre		
Kalispell	spring wheat	peas	Sep 26	0	_	0	0	Aug 2
Bozeman	fallow	barley	Oct 6	210	-	35	10	Aug 15
Huntley	chem. fallow	barley	Oct 6	10	-	6	7	Aug 1
Moccasin	pea/lentil	fallow	Oct 9	10	180	15	10	Aug 8
Conrad	chem. fallow	barley	Sep 25	41	182	23	20	Aug 7
Havre	fallow	barley	Sep 21	125	50	20	10	Jul 24
Carter	chem. fallow	na	Oct 12	-	-	-	-	Aug 7
Sidney	fallow	spring wheat	Sep 13	80	-	0	0	Jul 31
Williston, ND	cover crop mix	winter wheat	Sep 12	6	70	20	0	Jul 23

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 in 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), Choteau, Fly Creek (about

25 east-southeast of Huntley), Havre, Loma (15 miles northeast of Ft. Benton), Shelby/Devon area, and The Knees (35 miles east-southeast of Conrad). Solidness scores (rated on a 5-25 scale) are shown for solid and semi-solid varieties in Table 15.

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

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 Quaity

Milling and baking characteristics for varieties are presented in Table 15. 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 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, winter-hardiness, heading date, plant height, protein and disease resistance.

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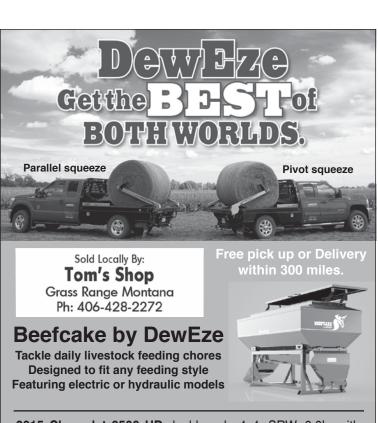
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Winter wheat variety performance summary in Montana

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, 1 bushel 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 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% (Langin, 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% (Langin) to a high of 13.7% (WB4623CLP).

Dwarf Smut (TCK)

Dwarf smut (TCK) can be controlled with 'Dividend' seed treatment. 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 varieties (Promontory and SY Clearstone 2CL are resistant) is a practical means of control.

The amount of wheat lost each year because 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.

If you farm in the vicinity of one of the shaded areas in the map (Figure 2.), you

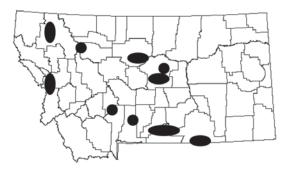


Fig. 2. Known areas of dwarf smut (TCK) infestations.

would be well advised to observe closely your winter wheat crop and consider using seed treatment.

Producing Winter Wheat

Plant CERTIFIED CLASS SEED of varieties RECOMMENDED by the Montana Agricultural Experiment Station.

Seed Treatment

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 (lb/acre) and date for winter wheat

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

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 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-

Winter wheat variety performance summary in Montana

CONTINUED FROM PAGE B14

eases 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 soil-borne 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.

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

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Winter wheat variety performance summary in Montana

CONTINUED FROM PAGE B15

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

Variety	Experimental Designation	Origin	Release Year	Pedigree
lic Varieties	Designation		1001	
	1		Ι	//Norstor*5/DCD16635_AMNALV/\/(8//D\A\A53_D)204004/3/13C//Nonsign
AAC Wildfire	W512	Alberta; SECAN	2015	((Norstar*5/PGR16635, AMN4LV) /6/ (RWA53, PI294994/3/ I3C//Norwi Blizzard/4/2*AC Readymade /5/ Norstar*5/PGR16635// 2*Redwin/3/ AC Readymade) /7/ (A7257W-71-2-1/ A77695W, ID337-R1)// CDC Kestre L99-1236) /8/ AC Bellatrix
Bearpaw	MTS0721	Montana	2011	selection from a composite of 5 crosses: 99X96, DMS/Rampart// Pronghorn/3/2*Rampart; 99X97, DMS/Rampart//Pronghorn/3/ Rampart/4/(MTW9806, Redwin/Rio Blanco//NuWest); 99X98, DMS/Rampart/Pronghorn/3/Rampart/4/NuPlains; 99X99, DMS/Rampart//Pronghorn/3/Rampart/4/(MT9513, NuWest/5/(TAM W- 103/Froid/4/Yogo//Turkey Red/3/Centurk, MT8030)); and 99X100, DMS/Rampart/Pronghorn/3/Rampart/6/(MT98113, 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 Byrd CL Plus	CO06052 CO13003C	Colorado Colorado	2011 2018	Teal 11A/Above//(CO99314, TX91V4931/ Halt) CO06072/4*Byrd (Als1, Als2)
Decade	MT0552	Montana; North Dakota	2010	selection from composite of 3 crosses:((Sumner sib, KS831936-3, (Plainsman V/Odesskaya 51)//(NE86501, Colt/Cody), N95L159, Wesle sib)/3/ CDC Clair, N95L159//(MT9602, NuWest/Tiber) and N95L159/4/ (MT9609, Froid/SD1287// Redwin/3/NuWest)
FourOsix	MT1465	Montana	2018	selection from a composite of 5 crosses: 06X272, Yellowstone/ (MT06102, a composite - see pedigree); 06X276, Yellowstone/ (MT06102, a composite - see pedigree); 06X278, Yellowstone/7 (MT06110, (Arapahoe/3/Brule//Hiplains/ Newton, SD93528)/6/ (MT9409, Tiber/5/ (TAM W-103/Froid/4/Yogo//Turkey Red/ Oro/3/Centurk, MT8030))); 06X282, Yellowstone/3/(MT06123, '2174'/(MT9440, BigSky sib)//BigSk and 06X285, Yellowstone/7/ (98X168E1, (Nuwest/4/ (MT88001, Sawmont/Tendoy /3/Yogo// Norin 10/Brevor) /5/(MT7863, Froid/Winok Centurk), MTS9720)/6/(PI 191303, Alba = Belgian variety)/Elkhorn);
Incline AX	CO14A065	Colorado	2017	(AF28/Byrd)//(AF10/2*Byrd)
Judee	MTS0713	Montana	2011	(Vanguard/Norstar//Judith dwf, 93X312E14)/3/ NuHorizo
Langin	CO11D446	Colorado	2016	(Hatcher/(NW97S295, Antelope sib), CO050270)//Byrd
Loma	MTS1224	Montana	2016	Yellowstone/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)/NuWest//Erhardt, MTW0072)/3/(NW97S151, KSSB0192-3/NE89529) and 00X249, (Judith/(Pl262605, Karagach, RWA resis.)/3/(S86-740, Norstar/Plainsman V //Ulianovka), MTW0047)/4/MTW0072/NW97S151
Oahe	SD10257-2	South Dakota	2016	Ransom//3/(SD96240-3-1, (Colt*2/Chisholm, NE87513)//USSR#67)
Ray	MTF1432	Montana	2018	Yellowstone*2/7/(98X168E1, (Nuwest/4/(MT88001, Sawmont/ Tendoy /3/Yogo//Norin 10/Brevor) /5/(MT7863, Froid/Winoka/ Centurk), MTS9720)/6/(PI 191303, Alba = Belgian variety)/Elkhorn)
Warhorse	MTS0808	Montana	2013	selection from a composite of 3 crosses: 00X182, ((Froid/Winoka/7/ ((Sinvalocho/Wichita// Hope/Cheyenne /3/Wichita//Seu Seun 27, TX5 391-56-D8)/5/Westmont, MT6928)/6/ 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/(Pl262605, Karagac 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-
Keldin	ACS55017	Peter Franck: Seed- Link Inc.; Ontario,Canada, Westbred LLC		dwarf/Promontory Barenburg 235/Carlisle//TRX-A16-3-2
LCS Chrome	LCH13DH-20-	Limagrain LLC	2016	na = not available
LCS Jet	NSA10-7208	Limagrain Europe s.a.	2015	Apache/Autan
LCS Link	LCH13-1471	Limagrain LLC	2017	na
LCS Rocket LCS Zoom	NSA10-2196 LWW14-73915	Limagrain LLC Limagrain LLC	2017 2018	na na
Long Branch	LCH12-012, HRX1652	Limagrain; Dyna- Gro Wheat	2015	T154 / T158
MTF1435	MTF1435	Montana: AgWest Seeds, Ephraim, UT; Sioux Nation Ag, Fort Pierre, SD	2018	(Yellowstone (Low PPO) plant seln, MT08186)/8/Yellowstone(L)*2 /7/ (98X168E1, (Nuwest/4/(MT88001, Sawmont/ Tendoy /3/Yogo//Norin 10/Brevor) /5/(MT7863, Froid/Winoka/ Centurk), MTS9720)/6/(PI 1913 Alba = Belgian variety)/Elkhorn)
SY 517 CL2	07CL039-7	Syngenta	2017	na, Clearfield Plus variety
SY Clearstone 2CL	MTCL1077	Syngenta, Montana	2012	Yellowstone*4/3/MTCL01158/CDC Teal 11A//Jagalene
SY Legend CL2	07CL046-2	Syngenta	2018	na (KS89180B-2-1-1/CM75113, F1//X920750-A-11-2, <u>BC991149-</u>
SY Monument SY Sunrise	04BC574-2 06BC796#68	Syngenta Syngenta Seeds	2014	11)/3/(00x0090-4, W95091/W98-183 ((X920709B-5-2/KS90WGRC10//Ogallala, BC98337-10-53)/3/CDC Falcon, 06BC308)/4/ (NE03458, (McVey 78015/NE88521, NE95544)// W91-348/3/Millennium)
SY Wolf	BC01007-7	AgriPro, Syngenta	2010	((TAM-108/Veery sib, SWM1524)/TX84V2029, TX91V3308)/3/(W93-3W188-052/W96-180), W99-331)/4/(97x0906-8, (Mesa/W89-328, W96-180)//(W95-188, Karl 92/W98-232))
WB4483	BZ9W09-2212	WestBred- Monsanto:	2016	Pryor/Genou
WB4575	BZ9W09-2075	WestBred- Monsanto:	2016	(hollow stem)
WB4614	BZ9W07-2034	WestBred- Monsanto:	2013	BZ9W96-788-B/Pryor
WB4623CLP	BZ9WM09- 1663	WestBred- Monsanto:	2014	(B152/Rampart, DH990356, BZ9W02-2073)// Above/CI Teal-11A

CONTINUED ON PAGE C18

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

If 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.

Balewagons & Retrievers



New Holland 1079 rebuilt balewagon
New Holland 1068 gas balewagon with MilStak clamp for 3x4 bales\$28,000
New Holland 1063 pull-type, hauls 160 bales \$16,500
5-New Holland S1049 bale wagons\$7500-19,500
New Holland Super 1049 balewagon\$18,500
New Holland 1046 self-propelled, hauls 80 bales\$7500
2006 New Holland 1037 balewagon, sharp\$35,000
6-New Holland 1037 balewagons, rebuilt \$18,000 to \$25,000
New Holland 1033s rebuilt balewagons\$10,500-\$13,000
New Holland 1032 rebuilt \$10,500
New Holland 1032 pull type\$10,500
New Holland 8500 round bale wagon, rebuilt\$60,000
New Holland 8500 round bale wagon. Nice condition\$40,000
2000 American Eagle bale wagon, hauls 12-3x4, 10-4x4 or 18-3x3
large square bales\$49,500

Used and New parts available for ALL models of New Holland balewagons

Haying Equipment

New Holland BR780 round baler with net wrap, nice......\$16,500 2009 Krone BP1290HDP square baler, 3x4 bales\$39,500

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 Allen 8827 hydraulic double rake.
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 From \$600 to \$4500

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New Holland HW325 swather, 16HS header, new condition	ning rolls
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New Holland HW320 swather, 16-ft. 2300 header	\$34,000
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2007 Hesston 9345 16-ft. swather, 3300 hours	\$39,500

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Great Bend 870 FEL, grapple, new condition	\$7500
International 550 PTO manure spreader	\$2500
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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

Winter wheat variety performance summary in Montana

CONTINUED FROM PAGE C16

Yellowstone*4//(KS96WGRC40, KS93U69*2/TA 2397)

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

	Variety	Experimental	Origin	Release	Pedigree
	varioty	=/ (p 0 / 11 / 10 / 11 / 10 / 11 / 11 / 11 /	0119111		
		Designation		Year	
-		Beeignation		1001	
_					

Public Elite Lines

	MT1265		<u>Yellowstone</u> *4//(<u>KS96WGRC40</u> , KS93U69*2/TA 2397) (Lr41, wcm)
	MTW1491		(Yellowstone (Low PPO) plant seln, MT08184)//(Yellowstone (Low PPO) plant seln, MT08188/(MT08175, Colter sib)
	MT1547		selection from a composite of 5 crosses: 06X272, <u>Yellowstone</u> / (<u>MT0684</u> , selection from a composite of 5 crosses - see pedigree); and 06X276, <u>Yellowstone</u> /(<u>MT06102</u> , selection from a composite of 2 crosses - see pedigree); 06X278, <u>Yellowstone</u> /7/ (<u>MT06110</u> , (Arapahoe/3/Brule/Hiplains/Newton, SD93528)/6/ (MT9409, Tiber/5/(TAM W-103/Froid/4/ Yogo//Turkey Red/Oro/3/ Centurk, MT8030))); 06X282, <u>Yellowstone</u> /3/(<u>MT06123</u> , "2174/ (MT9440, BigSky sib)//BigSky); and 06X285, <u>Yellowstone</u> /7/ (<u>98X168E1</u> , (Nuwest/4/ (MT88001, Sawmont/Tendoy /3/Yogo//Norin 10/Brevor) /5/(MT7863, Froid/Winoka/Centurk), MTS9720)/6/(PI 191303, Alba = Belgian variety)/Elkhorn)
	MT1563		selection from a composite of 2 crosses: 07X76, <u>Yellowstone*2/5/(Pi640431</u> , BC4F4 line derived from WA007900*5/4/WA007900// Yr5/6*Avocet/3/ WA007900//Yr15/ 6*Avocet) and 07X77, Yellowstone/Pl640431//Yellowstone(340,233)
name pending?	MT1564	2019?	selection from a composite of 2 crosses: 07X76, <u>Yellowstone*2/5/(Pl640431</u> , BC4F4 line derived from WA007900*5/4/WA007900//Yr5/6*Avocet/3/ WA007900//Yr15/ 6*Avocet) and 07X77, <u>Yellowstone/Pl640431/4/(Yellowstone(340,233)</u> ,Yellowstone*5/3/(Yellowstone sib, MT9982)//(MTS0222, Rampart*2/Judith), 340,233)
name pending?	MTS1588	2019?	selection from a composite of 2 crosses: 07X291, ((SMN82164/SMN82140//Rocky/Tiber, MT9659)/3/S87-101/4/Pronghorn, MT0598)/5/(98X366E29-1, Heyne/Rampart//(MT9513, BigSky sib)) and 07X295, (((Lew/Tiber//Redwin ,MTS92021)/3/Judith/Arapahoe, MTS0023)/4/Pryor/ Genou, 01X258C1)/5/MT0598
name pending?	MTCS1601	2019?	((L'Govskaya 167/Rampart/6/(MT9409, Tiber/5/ (MT8030, TAM W-103/Froid /4/Yogo//Turkey Red /Oro/3/Centurk)) ,MTS0531) /13/ (MTS0532, same pedigree as MTS0531) /12/ (Morgan/5/ (88X24D247-?, (Wasatch/Yogo//Rescue/3/Tendoy, Sel. 251, MT88006)/4/Judith)), 96X17E69) /9/((Tiber/5/(MT8030, TAM W-103/Froid /4/Yogo//Turkey Red /Oro/3/Centurk), MT9409)*2/6/IMI Fidel, MTCL0309)/7/CDC Teal 11A/8/(MTW01143, Promontory/5/ (MT91366, NuWest/ Lovrin 24 /4/((Rego/ Cheyenne, Sel. 39-18-7)/Winalta, MT7431)/3/NuWest)) /10/(MTCL0510, Rampart*3/Fidel/6/ (MTS9720, Nuwest/4/(MT88001, Sawmont/Tendoy /3/Yogo//Norin 10/Brevor)/5/(MT7863, Froid/Winoka/Centurk))) /11/ (MTS0531, see above)
	MT1642		Yellowstone/Madsen//Yellowstone
	MTV1681		Yellowstone*2/7/WillowCreek/6/(MT06129, (KS91HW29//Rio Blanco/KS91H184, KS96HW10-3)/4/(MTW0047, Judith/ (Pl262605, Karagach, RWA resis.)/3/(S86-740, Norstar/Plainsman V //Ulianovka)/5/NuSky)
	MT1683		selection from a composite of 2 crosses: 08X243, Yellowstone(L)*2/CDC Buteo and 08X245, same pedigree
	MT1687		selection from a composite of 2 crosses: 07X90, Yellowstone(L)*2/ (OK00611W, OK Rising sib) and 07X91, (TX95V9315/4/ (MT9712, Judith/Rio Blanco/3/(MT7863, Froid/Winoka// Centurk), MT0692)/5/ Yellowstone/(OK00611W , OK Rising sib)
	MT1688		selection from a composite of 2 crosses: 07X90, Yellowstone(L)*2/ (OK00611W, OK Rising sib) and 07X91, (TX95V9315/4/ (MT9712, Judith/Rio Blanco/3/(MT7863, Froid/Winoka// Centurk), MT0692)/5/ Yellowstone/(OK00611W , OK Rising sib)
	MT1695		selection from a composite of 2 crosses: 07X76, <u>Yellowstone</u> *2/5/ (<u>Pl640431</u> , BC4F4 line derived from WA007900*5/4/ WA007900// Yr5/6*Avocet/3/ WA007900// Yr15/ 6*Avocet) and 07X77, <u>Yellowstone/</u> <u>Pl640431/Yellowstone(340,233)</u>
	MT16101		selection from a composite of 2 crosses: 09X257, (Yellowstone (Low PPO) plant seln, MT08185)/6/YLL*2/5/(Pl640431, BC4F4 line derived from WA007900*5/4/ WA007900// Yr5/6*Avocet/3/ WA007900// Yr15/6*Avocet/7/Promontory/3*YLL// YLL*2/Pelsart and 09X258, MT08185// YLL*2/Pl640431/3/YLL*2/Pelsart// PROM/3*YLL
	MTF1631		selection from a composite of 2 crosses: 09X164, (Yellowstone (Low PPO) plant seln ,MT08184)*3/8/YLL(L)*2/7/(98X168E1, (Nuwest/4/ (MT88001, Sawmont/ Tendoy /3/Yogo// Norin 10/Brevor) /5/(MT7863, Froid/Winoka/ Centurk), MTS9720)/6/(Pl 191303, Alba = Belgian variety)/Elkhorn) and 09X165, (Yellowstone (Low PPO) plant seln, MT08185/MT08186//YLL(L)*2/ 98X168E1

Private Elite Lines

PSB13NEDH-7- Limagrain	n	Smoky Hill/McGill

<u>Trader's Dispatch</u>, <u>April 2019 – Page C24</u>

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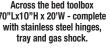
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Winter wheat variety performance summary

CONTINUED FROM PAGE C18

Table 3. HARD WINTER: District 1-- Kalispell - Dryland (High Rainfall) Spring flooding, weeds - plots not harvested in 2017 2018 Data Cultivar/Line Grain Yield (bushels/acre) Heading Date Plant Protein Test 2016//18 2015//18 Ordinal Calendar weight lb/bu rom Jan1 12.0 07CL046-2,SY Legend CL2, P++ **AAC Wildfire** 83.2 55.8 161.0 10-Jun 42.7 11.9 25.7 37.8 Bearpaw + 21.1 41.1 49.6 6-Jun 157.4 <u>13.9</u> Brawl CLP + 86.9 70.7 77.3 60.2 151.9 1-Jun 33.4 12.2 CO13003C,Byrd CL Plus + 70.1 55.3 154.9 4-Jun 38.5 11.8 Decade + 48.4 33.5 45.4 53.1 157.6 7-Jun 39.5 11.5 FourOsix ++ 92.4 113.7 8-Jun 61.2 159.2 11.2 Incline AX ++ 52.9 52.7 158.2 7-Jun 11.4 112.9 39.1 Judee 106.7 58.4 158.9 8-Jun 13.2 Keldin (P)+ 108.2 101.3 101.2 61.8 158.7 8-Jun 37.7 11.2 37.2 Langin ++ 87.1 58.7 151.2 31-May 11.5 LCS Chrome (P)++ 78.5 61.0 155.1 4-Jun 37.2 11.8 LCS Jet (P)+ 122.3 59.0 158.0 7-Jun 34.5 10.2 LCS Link (P)++ 80.1 59.7 155.3 4-Jun 34.6 11.6 Loma ++ 87.6 107.8 120.1 55.4 159.6 9-Jun 37.2 12.3 Long Branch P+ 101.5 62.2 153.6 3-Jun 34.0 11.4 122.3 33.1 LWW14-73915, LCS Zoom (P)++ 59.6 158.7 8-Jun 11.4 MT1265 111.6 121.0 10-Jun 39.3 93.1 58.6 161.1 11.1 MT1547 94.5 62.0 158.0 7-Jun 37.3 11.1 MT1563 86.6 56.4 160.5 10-Jun 39.2 11.3 MT1564 62.0 3-Jun 11.2 MT16101 105.5 60.0 7-Jun 12.0 MT1642 35.3 96.2 54.3 161.8 11-Jun 11.6 MT1683 100.1 59.5 159.9 9-Jun 41.7 11.5 6-Jun MT1687 89.6 156.9 33.0 12.8 61.6 MT1688 79.7 61.4 155.2 4-Jun 33.4 12.4 MT1695 93.7 61.8 154.8 4-Jun 35.6 11.1 MTCS1601 85.4 60.5 159.4 35.4 8-Jun MTF1435 ++ 79.8 56.5 160.9 10-Jun 43.1 12.1 MTF1631 55.0 43.0 85.6 159.0 8-Jun 12.1 MTS1588 59.8 159.1 34.5 12.0 94.1 8-Jun MTV1681 37.3 82.2 55.9 157.9 7-Jun 11.8 MTW1491 (HWW) 92.4 115.6 59.5 160.0 9-Jun 39.4 Northern + 78.2 106.0 114.2 56.2 161.2 10-Jun 37.0 12.2 NSA10-2196, LCS Rocket (P)++ 58.7 6-Jun 10.7 124.9 157.4 35.1 Oahe ++ 62.3 5-Jun 12.0 PSB13NEDH-7-140 (P) 41.2 72.1 59.7 157.6 7-Jun 11.6 97.2 53.9 41.0 Ray ++ 163.6 13-Jun 11.6 SY 517 CL2 P++ 31-May 53.2 56.0 151.3 36.1 11.6 SY Clearstone 2CL P+ 89.6 103.4 112.9 59.1 160.0 9-Jun 44.0 11.0 SY Monument (P)+ 84.1 105.6 110.9 58.8 156.1 5-Jun 36.3 11.6 SY Sunrise (P)+ 95.3 113.0 112.4 61.7 158.2 7-Jun 32.3 SY Wolf (P)+ 71.5 85.1 91.9 56.4 153.7 3-Jun Warhorse + 92.0 109.4 61.0 160.9 10-Jun 35.6 12.5 117.0 WB4483 (P)+ 160.9 35.2 74.5 81.7 57.6 10-Jun 12.3 WB4575 (P)++ 35.7 36.4 158.8 29.1 53.3 8-Jun 12.4 WB4614 (P)+ 72.2 68.2 81.1 57.5 157.5 7-Jun 34.7 11.7 WB4623CLP (P)+ 87.2 116.2 116.1 60.9 158.8 8-Jun 36.2 12.5

106.3

28.1

17.0

40.6

21.7

57.8

58.4

3.4

3.6

161.1

157.9

2.8

1.0

10-Jun

7-Jun

36.6

3.9

11.0

11.8

0.7

3.6

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

83.6

19.2

Yellowstone +

Average

C.V.

LSD (0.05)

Cultivar/Line	Protein % 12.0 12.4 12.6 13.5 11.2 12.5 11.9 11.2 12.2 12.1 11.1 13.2
O7CL046-2,SY Legend CL2, P++	12.0 12.4 12.6 13.5 11.2 12.5 11.9 11.2 12.2 12.1 11.1
D7CL046-2,5Y Legend CL2, P++	12.0 12.4 12.6 13.5 11.2 12.5 11.9 11.2 12.2 12.1 11.1
Bearpaw +	12.4 12.6 13.5 11.2 12.5 11.9 11.2 12.2 12.1 11.1
Bearpaw +	12.6 13.5 11.2 12.5 11.9 11.2 12.2 12.1 11.1
Brawl CLP +	13.5 11.2 12.5 11.9 11.2 12.2 12.1 11.1
Col3003C,Byrd CL Plus + 135.5 99.0 74.4 67.4 64.4 162.7 12-Jun 36.9	11.2 12.5 11.9 11.2 12.2 12.1 11.1
Decade +	12.5 11.9 11.2 12.2 12.1 11.1
FourOsix ++	11.9 11.2 12.2 12.1 11.1
Incline AX ++	11.2 12.2 12.1 11.1
Name	12.2 12.1 11.1
Keldin (P)+	12.1 11.1
Langin ++	11.1
LCS Chrome (P)++	
LCS Jet (P)+ LCS Link (P)++ LOMB A++ LOMB A++ LOMB Branch P+ LOMB Branch P+ 134.5 LOMB Branch P+ 134.6 LOMB Branch P+ 134.8 LOMB Branch P+ 135.7 117.8 109.2 104.4 63.8 64.4 157.8 7-Jun 34.1 17.3 64.4 157.8 7-Jun 34.1 17.3 18.3 18.2 11.3 18	13.2
LCS Link (P)++ Loma ++ Loma ++ Long Branch P+ LWW14-73915, LCS Zoom (P)++ MT1565 MT1563 MT1642 MT1642 MT1688 MT1681 MT1681 MT1681 MT1681 MT1681 MT1684 MT1681 MT1684 MT1684 MT1681 MT1685 MTW1491 (HWW) MT1685 MTW1491 (HWW) Northern + NSA10-2196, LCS Rocket (P)++ Oahe ++ PSB13NEDH-7-140 (P) Ray ++ SY Clearstone 2CL P+ M39.9 M134.8 122.3 109.2 104.4 63.8 108.2 17.Jun 34.1 120.3 110.8 63.3 168.2 17.Jun 34.1 120.3 110.8 63.3 168.2 17.Jun 34.1 140.1 64.6 63.9 162.2 11.Jun 35.3 64.6 64.7 161.7 11.Jun 36.1 63.7 166.5 16-Jun 37.4 64.6 162.9 12-Jun 37.2 64.6 165.9 15-Jun 37.4 45.3 MTV1681 MT296 MT296, LCS Rocket (P)++ 138.4 Oahe ++ 120.7 PSB13NEDH-7-140 (P) Ray ++ 138.5 123.0 SY Clearstone 2CL P+ 142.4 120.7 110.5 109.2 110.8 109.2 110.8 109.2 110.8 109.2 110.8 109.2 110.8 110.8 109.2 110.8 110.8 109.2 110.8 110.	440
Loma ++ 139.7 117.8 109.2 104.4 63.8 168.4 17-Jun 35.1	11.9
Long Branch P+	12.5 12.0
MT1265	12.0
MT1265 146.6 127.6 120.3 110.8 63.3 168.2 17-Jun 40.1 MT1547 132.9 117.9 64.6 165.3 14-Jun 35.3 MT1563 142.6 119.6 63.9 167.3 16-Jun 40.1 MT1644 130.5 124.6 64.7 161.7 11-Jun 36.1 MT1642 140.3 63.5 170.4 19-Jun 37.4 MT1683 141.6 63.7 166.5 16-Jun 37.4 MT1687 124.3 64.6 162.9 12-Jun 35.2 MT1688 128.0 64.6 162.2 11-Jun 37.2 MT1695 132.5 64.6 162.2 11-Jun 37.2 MT51601 135.3 109.3 62.7 168.0 17-Jun 45.3 MTF1435 ++ 117.8 109.3 62.7 168.0 17-Jun 45.3 MTS1588 134.5 112.9 64.9 167.3	11.8
MT1547 132.9 117.9 64.6 165.3 14-Jun 35.3 MT1563 142.6 119.6 63.9 167.3 16-Jun 40.1 MT1664 130.5 124.6 64.7 161.7 11-Jun 36.1 MT16101 131.0 64.2 163.5 13-Jun 37.4 MT1683 141.6 63.7 166.5 16-Jun 37.1 MT1687 124.3 64.6 162.9 12-Jun 35.2 MT1688 128.0 64.6 162.9 12-Jun 35.2 MT1695 132.5 64.6 162.2 11-Jun 37.2 MTC\$1601 135.3 64.6 165.9 15-Jun 37.4 MTF1435 ++ 117.8 109.3 62.7 168.0 17-Jun 45.0 MT\$1588 134.5 112.9 64.9 167.3 16-Jun 33.4 MTV1681 145.2 132.9 124.6 64.3 167.3 16-Jun 33.4	12.2
MT1563 142.6 119.6 63.9 167.3 16-Jun 40.1 MT1564 130.5 124.6 64.7 161.7 11-Jun 36.1 MT16101 131.0 64.2 163.5 13-Jun 37.4 MT1682 140.3 63.5 170.4 19-Jun 37.1 MT1683 141.6 63.7 166.5 16-Jun 39.4 MT1687 124.3 64.6 162.9 12-Jun 35.2 MT1688 128.0 64.6 162.9 11-Jun 37.2 MTC95601 135.3 64.6 165.9 15-Jun 37.4 MTF1435 ++ 117.8 109.3 62.7 168.0 17-Jun 45.3 MTF1631 122.6 63.3 168.1 17-Jun 45.0 MTS1588 134.5 112.9 64.9 167.3 16-Jun 33.4 MTV1681 145.2 132.9 124.6 63.5 165.9 15-Jun 36.5	12.2
MT1564 130.5 124.6 64.7 161.7 11-Jun 36.1 MT16101 131.0 64.2 163.5 13-Jun 37.4 MT1642 140.3 63.5 170.4 19-Jun 37.1 MT1683 141.6 63.7 166.5 16-Jun 39.4 MT1687 124.3 64.6 162.9 12-Jun 35.2 MT1688 128.0 64.6 162.2 11-Jun 34.5 MT1695 132.5 64.2 162.1 11-Jun 37.2 MTCS1601 135.3 64.6 165.9 15-Jun 37.4 MTF1435 ++ 117.8 109.3 62.7 168.0 17-Jun 45.3 MTS1588 134.5 112.9 64.9 167.3 16-Jun 33.4 MTV1681 145.2 132.9 124.6 63.5 165.9 15-Jun 38.5 MTW1491 (HWW) 150.2 132.9 124.6 64.3 167.3 16-Jun 30.	12.1
MT16101 131.0 64.2 163.5 13-Jun 37.4 MT1622 140.3 63.5 170.4 19-Jun 37.1 MT1683 141.6 63.7 166.5 16-Jun 39.4 MT1687 124.3 64.6 162.9 12-Jun 35.2 MT1688 128.0 64.6 162.2 11-Jun 34.5 MT1695 132.5 64.6 165.9 15-Jun 37.4 MTCS1601 135.3 64.6 165.9 15-Jun 37.4 MTF1435 ++ 117.8 109.3 62.7 168.0 17-Jun 45.3 MTS1588 134.5 112.9 64.9 167.3 16-Jun 33.4 MTV1681 145.2 63.5 165.9 15-Jun 38.5 MTW1491 (HWW) 150.2 132.9 124.6 64.3 167.3 16-Jun 38.5 MTW1491 (HWW) 150.2 132.9 101.4 63.8 167.3 16-Jun 38.2 NSA10-2196, LCS Rocket (P)++ 138.4 61.4 65.1 163.0	12.1
MT1642 140.3 63.5 170.4 19-Jun 37.1 MT1683 141.6 63.7 166.5 16-Jun 39.4 MT1687 124.3 64.6 162.9 12-Jun 35.2 MT1688 128.0 64.6 162.2 11-Jun 34.5 MT1695 132.5 64.2 162.1 11-Jun 37.4 MTS1631 122.6 63.3 168.0 17-Jun 45.3 MTF1631 122.6 63.3 168.1 17-Jun 45.0 MTS1588 134.5 112.9 64.9 167.3 16-Jun 33.4 MTV1681 145.2 63.5 165.9 15-Jun 38.5 MTW1491 (HWW) 160.2 132.9 124.6 64.3 167.3 16-Jun 38.5 MTW1491 (HWW) 150.2 132.9 107.4 101.4 63.8 167.3 16-Jun 38.2 NSA10-2196, LCS Rocket (P)++ 138.4 107.4 101.4 63.8 167.3 16-Jun 34.1 Oahe +- 120.7 107.5 65	12.5
MT1683 141.6 63.7 166.5 16-Jun 39.4 MT1687 124.3 64.6 162.9 12-Jun 35.2 MT1688 128.0 64.6 162.2 11-Jun 34.5 MT1695 132.5 64.2 162.1 11-Jun 37.2 MTCS1601 135.3 64.6 165.9 15-Jun 37.4 MTF1435 ++ 117.8 109.3 62.7 168.0 17-Jun 45.3 MTF1631 122.6 63.3 168.1 17-Jun 45.0 MTS1588 134.5 112.9 64.9 167.3 16-Jun 33.4 MTV1681 145.2 132.9 124.6 63.5 165.9 15-Jun 38.5 MTW1491 (HWW) 150.2 132.9 124.6 64.3 167.3 16-Jun 40.0 Northern + 147.8 119.1 107.4 101.4 63.8 167.3 16-Jun 38.2 NSA10-2196, LCS Rocket (P)++ 138.4	12.1
MT1687 124.3 64.6 162.9 12-Jun 35.2 MT1688 128.0 64.6 162.2 11-Jun 34.5 MT1695 132.5 64.2 162.1 11-Jun 37.2 MTCS1601 135.3 64.6 165.9 15-Jun 37.4 MTF1631 122.6 63.3 168.1 17-Jun 45.0 MTS1588 134.5 112.9 64.9 167.3 16-Jun 33.4 MTV1681 145.2 132.9 124.6 63.5 165.9 15-Jun 38.5 MTW1491 (HWW) 150.2 132.9 124.6 64.3 167.3 16-Jun 40.0 Northern + 147.8 119.1 107.4 101.4 63.8 167.3 16-Jun 38.2 NSA10-2196, LCS Rocket (P)++ 138.4 107.4 101.4 63.8 167.3 16-Jun 34.1 Oahe ++ 120.7 107.5 65.0 165.0 14-Jun 39.0 Ray	12.2
MT1688 128.0 64.6 162.2 11-Jun 34.5 MT1695 132.5 64.2 162.1 11-Jun 37.2 MTC\$1601 135.3 64.6 165.9 15-Jun 37.4 MT\$1436 ++ 117.8 109.3 62.7 168.0 17-Jun 45.0 MT\$1681 122.6 63.3 168.1 17-Jun 45.0 MTY1681 145.2 63.5 165.9 15-Jun 38.5 MTW1491 (HWW) 150.2 132.9 124.6 64.3 167.3 16-Jun 40.0 Northern + 147.8 119.1 107.4 101.4 63.8 167.3 16-Jun 38.2 NSA10-2196, LCS Rocket (P)++ 138.4 107.4 101.4 63.8 167.3 16-Jun 34.1 Oahe ++ 120.7 107.5 65.0 165.0 12-Jun 40.4 PSB13NEDH-7-140 (P) 124.7 107.5 65.0 165.0 14-Jun 39.0 SY 517 CL2	13.5
MTCS1601 135.3 64.6 165.9 15-Jun 37.4 MTF1435 ++ 117.8 109.3 62.7 168.0 17-Jun 45.3 MTF1631 122.6 63.3 168.1 17-Jun 45.0 MTS1588 134.5 112.9 64.9 167.3 16-Jun 33.4 MTV1681 145.2 63.5 165.9 15-Jun 38.5 MTW1491 (HWW) 150.2 132.9 124.6 64.3 167.3 16-Jun 40.0 Northern + 147.8 119.1 107.4 101.4 63.8 167.3 16-Jun 38.2 NSA10-2196, LCS Rocket (P)++ 120.7 107.5 65.1 163.0 12-Jun 34.1 Oahe ++ 120.7 107.5 65.0 165.0 14-Jun 39.0 Ray ++ 138.5 123.0 61.7 170.8 20-Jun 43.6 SY 517 CL2 P++ 113.7 96.4 65.2 159.6 9-Jun 33.1	13.6
MTCS1601 135.3 64.6 165.9 15-Jun 37.4 MTF1435 ++ 117.8 109.3 62.7 168.0 17-Jun 45.3 MTF1631 122.6 63.3 168.1 17-Jun 45.0 MTS1588 134.5 112.9 64.9 167.3 16-Jun 33.4 MTV1681 145.2 63.5 165.9 15-Jun 38.5 MTW1491 (HWW) 150.2 132.9 124.6 64.3 167.3 16-Jun 40.0 Northern + 147.8 119.1 107.4 101.4 63.8 167.3 16-Jun 38.2 NSA10-2196, LCS Rocket (P)++ 138.4 65.1 163.0 12-Jun 34.1 Oahe ++ 120.7 107.5 65.0 165.0 14-Jun 39.0 Ray ++ 138.5 123.0 61.7 170.8 20-Jun 33.1 SY 517 CL2 P++ 113.7 96.4 65.2 159.6 9-Jun 33.1 SY Clearstone 2CL	11.9
MTF1631 122.6 63.3 168.1 17-Jun 45.0 MTS1588 134.5 112.9 64.9 167.3 16-Jun 33.4 MTV1681 145.2 63.5 165.9 15-Jun 38.5 MTW1491 (HWW) 150.2 132.9 124.6 64.3 167.3 16-Jun 40.0 Northern + 147.8 119.1 107.4 101.4 63.8 167.3 16-Jun 38.2 NSA10-2196, LCS Rocket (P)++ 138.4 61.4 162.9 12-Jun 34.1 Oahe ++ 120.7 107.5 65.0 165.0 12-Jun 40.4 PSB13NEDH-7-140 (P) 124.7 107.5 65.0 165.0 14-Jun 39.0 Ray ++ 138.5 123.0 61.7 170.8 20-Jun 43.6 SY 517 CL2 P++ 113.7 96.4 65.2 159.6 9-Jun 33.1 SY Clearstone 2CL P+ 142.4 120.7 110.5 103.5 63.3 167.2 16-Jun 40.2	12.7
MTS1588 134.5 112.9 64.9 167.3 16-Jun 33.4 MTV1681 145.2 132.9 124.6 63.5 165.9 15-Jun 38.5 MTW1491 (HWW) 150.2 132.9 124.6 64.3 167.3 16-Jun 40.0 Northern + 147.8 119.1 107.4 101.4 63.8 167.3 16-Jun 38.2 NSA10-2196, LCS Rocket (P)++ 138.4 61.4 162.9 12-Jun 34.1 Oahe ++ 120.7 107.5 65.0 165.0 12-Jun 40.4 PSB13NEDH-7-140 (P) 124.7 107.5 65.0 165.0 14-Jun 39.0 Ray ++ 138.5 123.0 61.7 170.8 20-Jun 43.6 SY 517 CL2 P++ 113.7 96.4 65.2 159.6 9-Jun 33.1 SY Clearstone 2CL P+ 142.4 120.7 110.5 103.5 63.3 167.2 16-Jun 40.2	12.6
MTV1681 145.2 63.5 165.9 15-Jun 38.5 MTW1491 (HWW) 150.2 132.9 124.6 64.3 167.3 16-Jun 40.0 Northern + 147.8 119.1 107.4 101.4 63.8 167.3 16-Jun 38.2 NSA10-2196, LCS Rocket (P)++ 138.4 61.4 162.9 12-Jun 34.1 Oahe ++ 120.7 107.5 65.0 165.0 12-Jun 40.4 PSB13NEDH-7-140 (P) 138.5 123.0 61.7 170.8 20-Jun 43.6 SY 517 CL2 P++ 113.7 96.4 65.2 159.6 9-Jun 33.1 SY Clearstone 2CL P+ 142.4 120.7 110.5 103.5 63.3 167.2 16-Jun 40.2	13.2
MTW1491 (HWW) 150.2 132.9 124.6 64.3 167.3 16-Jun 40.0 Northern + 147.8 119.1 107.4 101.4 63.8 167.3 16-Jun 38.2 NSA10-2196, LCS Rocket (P)++ 138.4 61.4 162.9 12-Jun 34.1 Oahe ++ 120.7 107.5 65.0 165.0 12-Jun 40.4 PSB13NEDH-7-140 (P) 124.7 107.5 65.0 165.0 14-Jun 39.0 Ray ++ 138.5 123.0 61.7 170.8 20-Jun 43.6 SY 517 CL2 P++ 113.7 96.4 65.2 159.6 9-Jun 33.1 SY Clearstone 2CL P+ 142.4 120.7 110.5 103.5 63.3 167.2 16-Jun 40.2	12.0
Northern + 147.8 119.1 107.4 101.4 63.8 167.3 16-Jun 38.2 NSA10-2196, LCS Rocket (P)++ 138.4 61.4 162.9 12-Jun 34.1 Oahe ++ 120.7 65.1 163.0 12-Jun 40.4 PSB13NEDH-7-140 (P) 124.7 107.5 65.0 165.0 14-Jun 39.0 Ray ++ 138.5 123.0 61.7 170.8 20-Jun 43.6 SY 517 CL2 P++ 113.7 96.4 66.2 159.6 9-Jun 33.1 SY Clearstone 2CL P+ 142.4 120.7 110.5 103.5 63.3 167.2 16-Jun 40.2	12.6
NSA10-2196, LCS Rocket (P)++ 138.4 61.4 162.9 12-Jun 34.1 Oahe ++ 120.7 65.1 163.0 12-Jun 40.4 PSB13NEDH-7-140 (P) 124.7 107.5 65.0 165.0 14-Jun 39.0 Ray ++ 138.5 123.0 61.7 170.8 20-Jun 43.6 SY 517 CL2 P++ 113.7 96.4 66.2 159.6 9-Jun 33.1 SY Clearstone 2CL P+ 142.4 120.7 110.5 103.5 63.3 167.2 16-Jun 40.2	11.9
Oahe ++ 120.7 65.1 163.0 12-Jun 40.4 PSB13NEDH-7-140 (P) 124.7 107.5 65.0 165.0 14-Jun 39.0 Ray ++ 138.5 123.0 61.7 170.8 20-Jun 43.6 SY 517 CL2 P++ 113.7 96.4 66.2 159.6 9-Jun 33.1 SY Clearstone 2CL P+ 142.4 120.7 110.5 103.5 63.3 167.2 16-Jun 40.2	12.1
PSB13NEDH-7-140 (P) 124.7 107.5 65.0 165.0 14-Jun 39.0 Ray ++ 138.5 123.0 61.7 170.8 20-Jun 43.6 SY 517 CL2 P++ 113.7 96.4 66.2 159.6 9-Jun 33.1 SY Clearstone 2CL P+ 142.4 120.7 110.5 103.5 63.3 167.2 16-Jun 40.2	11.1
Ray ++ 138.5 123.0 61.7 170.8 20-Jun 43.6 SY 517 CL2 P++ 113.7 96.4 65.2 159.6 9-Jun 33.1 SY Clearstone 2CL P+ 142.4 120.7 110.5 103.5 63.3 167.2 16-Jun 40.2	12.9
SY 517 CL2 P++ 113.7 96.4 65.2 159.6 9-Jun 33.1 SY Clearstone 2CL P+ 142.4 120.7 110.5 103.5 63.3 167.2 16-Jun 40.2	13.7
SY Clearstone 2CL P+ 142.4 120.7 110.5 103.5 63.3 167.2 16-Jun 40.2	12.5
	12.6
	12.3
	11.8
SY Sunrise (P)+ 114.6 105.9 101.3 100.1 65.2 162.1 11-Jun 30.5	12.8
SY Wolf (P)+ 117.2 97.4 91.8 89.7 64.9 161.7 11-Jun 34.0	12.5
Warhorse + 120.7 107.1 97.2 90.4 63.8 167.3 16-Jun 36.4 WB4483 (P)+ 133.2 93.3 79.3 64.8 168.2 17-Jun 36.1	13.0 11.6
WB4676 (P)++ 116.9 70.6 61.4 65.1 166.8 16-Jun 35.9	12.5
WB4614 (P)+ 135.6 98.1 87.8 81.3 65.5 166.3 15-Jun 35.0	11.8
WB4623CLP (P)+ 127.5 114.3 109.0 99.9 64.0 165.6 15-Jun 35.0	
Yellowstone + ¹¹ 137.3 63.8 167.3 16-Jun 39.0	13.7
1910WStorie + 137.3 03.0 107.3 10-Jun 39.0	13.7
Average 131.8 109.9 97.6 92.6 64.1 164.9 14-Jun 36.6	13.7 11.9
LSD (0.05) 11.6 31.4 20.1 14.4 0.4 1.1 1.4	11.9
C.V. 5.0 14.0 12.4 10.9 0.4 0.4 2.2	

bold = indicates highest value within a column 1/ Yellowstone mis-planted in 2017; no 2, 3, and 4 year data

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 2/ = approved for release in 2019, name pending

(HWW) = Hard White Winter Wheat

<u>Trader's Dispatch, April 2019 — Page C30</u>

We'd appreciate it if you tell an advertiser you read his ad in the Trader's Dispatch.



Truck Trailer & **Equipment Sales**

Scott Schmiedeke (406) 240-2572 Victor, MT

Henry Kallis (605) 639-1904 Spearfish, SD

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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 radial tires, beautiful loader, has been very well maintained, just serviced and job site ready. Located in



2014 Cat TH406C 2400 hours, enclosed cab with heat and air conditioning, 3-way steering, hydraulic quick coupler, auxiliary hy-

draulics, material bucket and forks, 20-ft. reach, 8150 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 telehandler has been through the shop, just serviced. Located in



2004 John Deere 200C LC, 7155 hours, enclosed cab with heat and air conditioning, hydraulic thumb, 9'6" arm, 42" bucket, under car-

riage is in very good condition, 47,500 lb. operating weight, has been through the shop all repairs have been done, just serviced, extremely nice and tight excavator. Located in



2007 Skytrak 6042 3821 hours, auxiliary hydraulics, 72" carriage, 48" forks, 3-way steering, foam filled tires, 6000 lb. lift capacity,

42-ft. reach, very nice condition. Located in Victor, MT



2016 Cat 236D 550 hours, enclosed cab with heat and air conditioning, heated air ride seat, advanced display with rear view camera, electric quick coupler, 2-speed travel, bucket leveling, 1800 lb. operating capacity, 3600

6600 lb. operating weight, very nice machine in like new condition... Located in Victor, MT\$37,500



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.....\$38,900



2005 Case 60XT 3026 hours, enclosed cab with heat, Case H pattern controls, auxiliary hydraulics and electrics, 78" bucket with new bolt on edge, quick coupler, 69 hp, 1800 pound operating capacity, 3600

pound tip load, 6600 pound operating weight, very nice machine, serviced and job site ready. Located in Victor, MT.....\$21,500

Winter wheat variety performance summary

CONTINUED FROM PAGE C24

Table 5. HARD WINTER: Dis	trict 3 Hi	intley - Dr	yland *** Test	not planted ir	2015 ***			
			1650			2018 Data	,	
Cultivar/Line	G	rain Yield (bushels/acre)	Test		ng Date	Plant	Protein
Guillyan Ellio	2018	2017-17	2016-18	weight		Calendar		1 TOTOIII
	2010	2017-17 2 yr	3 yr	lb/bu	from Jan1	Calcilluai	in	%
07CL046-2,SY Legend CL2, P++	102.5	2),	<i>o</i>	63.1	155.7	Jun 5	37.1	12.2
AAC Wildfire	98.8			62.7	162.7	Jun 12	40.6	13.1
Bearpaw +	112.4	97.4	96.6	61.8	158.3	Jun 7	40.0	13.2
Brawl CLP +	114.0	114.9	112.9	63.0	153.0	Jun 2	39.1	13.1
CO13003C,Byrd CL Plus +	125.5	125.4		62.0	155.7	Jun 5	44.8	11.9
Decade +	114.5	107.7	104.4	60.9	158.0	Jun 7	41.4	12.5
FourOsix ++	111.0	113.7	113.1	62.1	158.3	Jun 7	38.6	12.8
Incline AX ++	108.7			60.9	157.7	Jun 7	38.9	11.6
Judee +	100.2	107.8	105.8	62.2	159.0	Jun 8	40.8	13.0
Keldin (P)+	136.6	135.9	128.5	63.1	159.7	Jun 9	40.4	12.0
Langin ++	126.7	127.8		61.3	153.0	Jun 2	37.6	11.7
LCS Chrome (P)++	108.4	115.4		63.0	157.3	Jun 5	40.2	12.8
LCS Jet (P)+	134.9	<u>137.6</u>		61.5	158.3	Jun 7	36.9	12.9
LCS Link (P)++	127.0			62.9	154.0	Jun 3	37.7	12.0
Loma ++	98.0	104.7	106.6	61.1	162.0	Jun 11	34.6	12.7
Long Branch P+	118.4	123.1		62.8	153.7	Jun 3	38.0	11.6
LWW14-73915, LCS Zoom (P)++	131.9			60.2	156.3	Jun 5	37.5	12.3
MT1265	114.6	114.1	113.6	61.5	161.7	Jun 10	43.7	12.7
MT1547	113.1	113.5		62.4	159.3	Jun 8	39.6	12.4
MT1563	113.6	113.6		62.0	160.7	Jun 10	41.9	12.5
MT1564	116.8	124.3		63.0	154.3	Jun 3	40.7	12.1
MT16101	113.2			62.6	157.0	Jun 6	40.9	12.3
MT1642	120.3			61.6	162.7	Jun 12	41.9	13.1
MT1683	105.1			61.8	161.3	Jun 10	40.8	12.5
MT1687	118.7			63.2	157.7	Jun 7	39.8	12.9
MT1688	111.1			61.9	157.3	Jun 6	37.9	13.0
MT1695	98.5			62.0	157.3	Jun 6	39.2	12.0
MTCS1601	104.9	00.5		62.8	159.0	Jun 8	38.5	13.4
MTF1435 ++ MTF1631	89.4 102.7	92.5		61.7 62.9	161.7 161.0	Jun 11 Jun 10	52.8 47.3	13.5 14.0
MTS1588	102.7	105.4		62.3	160.3	Jun 9	36.3	13.0
MTV1681	108.3	105.4		61.4	159.7	Jun 9	40.7	12.8
MTW1491 (HWW)	106.3	116.3	115.8	62.8	161.0	Jun 10	42.3	12.4
Northern +	108.4	110.3	113.0	62.4	162.0	Jun 11	40.7	12.4
NSA10-2196, LCS Rocket (P)++	122.6	110.0	110.0	58.6	158.0	Jun 7	36.4	11.8
Oahe ++	110.4			63.5	157.0	Jun 6	46.9	12.6
PSB13NEDH-7-140 (P)	125.5	120.4		63.2	158.0	Jun 7	41.8	12.8
Ray ++	104.9	109.1		61.0	162.7	Jun 12	46.3	13.3
SY 517 CL2 P++	120.6	112.2		63.4	153.0	Jun 2	39.1	12.0
SY Clearstone 2CL P+	103.4	111.4	111.8	61.4	160.7	Jun 10	42.3	12.7
SY Monument (P)+	122.1	126.0	121.8	62.3	157.0	Jun 6	38.5	12.2
SY Sunrise (P)+	108.3	113.8	111.3	62.5	155.3	Jun 4	36.3	11.4
SY Wolf (P)+	121.5	122.2	120.7	62.8	154.7	Jun 4	36.9	13.0
Warhorse +	110.6	110.6	107.6	62.6	160.3	Jun 9	37.7	13.6
WB4483 (P)+	90.8	96.2	99.9	60.0	161.7	Jun 11	38.2	13.5
WB4575 (P)++	106.9	90.7	93.0	63.3	159.0	Jun 8	37.7	12.6
WB4614 (P)+	97.2	106.8	107.3	61.5	160.0	Jun 9	39.2	12.8
WB4623CLP (P)+	99.5	107.3	105.7	62.9	158.3	Jun 7	40.3	13.6
Yellowstone +1/	104.5	-	-	61.5	161.0	10-Jun	41.3	12.7
Average	111.5	113.4	109.9	62.1	158.4	7-Jun	40.2	12.6
LSD (0.05)	11.7	18.2	14.3	0.7	1.2		3.3	0.6

Table 6. HARD WINTER: Dis	trict 4 M	occasin -	Dryland				2040 D-4-		
Cultivar/Line		rain Viald /	huahala/aa	ra\	Test		2018 Data	Plant	Protein
Cultivar/Line			bushels/ac		1		ng Date		Protein
	2018	2017-17	2015-18	2015-18	weight		Calendar	height	%
07CL046-2,SY Legend CL2, P++	50.6	2 yr	3 yr	4 yr	lb/bu 64.1	from Jan1 162.0	11-Jun	in 26.3	13.2
AAC Wildfire	65.1				61.5	172.3	21-Jun	33.0	11.8
Bearpaw +	61.7	60.3	58.5	58.4	63.4	167.0	16-Jun	28.3	12.8
Brawl CLP +	60.0	62.9	61.6	58.7	64.2	160.7	10-Jun	26.0	13.6
CO13003C,Byrd CL Plus +	67.7	65.3	01.0	30.7	64.0	162.0	11-Jun	30.3	11.5
Decade +	60.0	59.5	58.0	57.3	62.5	165.0	14-Jun	31.0	13.0
FourOsix ++	69.2	64.3	66.8	37.3	63.7	165.0	14-Jun	29.0	12.6
Incline AX ++	68.0	04.0	00.0		61.2	167.0	16-Jun	29.7	11.5
Judee +	57.1	58.7	55.3	52.0	63.9	166.0	15-Jun	29.7	12.7
Keldin (P)+	65.7	67.4	67.8	66.2	63.2	167.0	16-Jun	28.7	12.1
Langin ++	70.5	68.5	07.0	00.2	63.0	158.7	8-Jun	24.7	11.4
LCS Chrome (P)++	53.7	59.7			64.0	163.0	12-Jun	28.3	13.0
LCS Jet (P)+	69.8	67.7			59.5	171.0	20-Jun	26.0	11.2
LCS Link (P)++	65.6	01.1			63.7	162.0	11-Jun	27.3	12.4
Loma ++	67.3	62.9	61.3	59.6	62.4	171.0	20-Jun	27.7	11.8
Long Branch P+	61.9	62.4	01.0	00.0	63.4	158.3	7-Jun	24.7	12.0
LWW14-73915, LCS Zoom (P)++	68.8	72			60.0	163.0	12-Jun	27.0	11.5
MT1265	74.2	69.9	68.6	65.7	61.9	171.0	20-Jun	32.0	11.5
MT1547	72.9	70.5			63.2	167.0	16-Jun	30.0	12.1
MT1563	72.1	69.4			63.1	169.3	18-Jun	30.7	11.3
MT1564	65.6	67.5			63.5	160.7	10-Jun	26.7	12.2
MT16101	70.5				63.5	164.0	13-Jun	30.7	11.9
MT1642	76.0				61.2	171.0	20-Jun	32.0	11.8
MT1683	81.9				62.5	166.0	15-Jun	32.0	11.9
MT1687	68.9				63.4	162.0	11-Jun	30.0	12.5
MT1688	66.3				63.4	160.3	9-Jun	26.7	12.8
MT1695	64.9				62.5	163.0	12-Jun	29.3	12.4
MTCS1601	68.4				63.3	165.7	15-Jun	29.7	12.6
MTF1435 ++	61.7	66.2			61.2	171.7	21-Jun	38.3	12.3
MTF1631	64.1				62.0	171.0	20-Jun	37.3	12.0
MTS1588	63.7	62.2			63.6	169.3	18-Jun	27.3	11.8
MTV1681	70.1	20.0			61.9	169.0	18-Jun	31.0	12.4
MTW1491 (HWW)	70.7	68.8	67.6	04.0	63.0	167.3	16-Jun	31.0	11.1
Northern +	65.4	62.9	61.1	61.9	62.8	171.0	20-Jun	29.7	12.2
NSA10-2196, LCS Rocket (P)++	64.1				60.5	167.0	16-Jun	26.3	11.6
Oahe ++	65.1 60.6	63.9			64.1 63.9	162.0 163.3	11-Jun 12-Jun	30.3 29.0	12.3 13.5
PSB13NEDH-7-140 (P)	77.9	69.7			59.7	172.0	21-Jun	37.3	11.6
Ray ++ SY 517 CL2 P++	60.4	61.3			64.3	162.0	11-Jun	26.3	12.6
SY Clearstone 2CL P+	69.0	66.3	66.1	63.8	62.0	171.0	20-Jun	32.0	11.6
SY Monument (P)+	72.7	71.4	68.5	66.4	63.0	164.0	13-Jun	28.3	11.7
SY Sunrise (P)+	63.7	63.4	62.7	61.0	64.4	162.0	11-Jun	23.0	12.3
SY Wolf (P)+	61.1	60.2	61.2	59.0	64.0	162.0	11-Jun	26.3	12.7
Warhorse +	59.7	61.6	62.2	59.7	62.5	167.7	17-Jun	28.3	12.6
WB4483 (P)+	62.1	59.7	57.9		63.2	169.3	18-Jun	28.0	11.5
WB4575 (P)++	62.5	58.6	59.6		64.9	167.3	16-Jun	27.0	13.0
WB4614 (P)+	72.6	66.7	62.4	61.2	63.9	165.0	14-Jun	28.3	11.6
WB4623CLP (P)+	62.0	58.4	57.1	54.8	63.2	167.3	16-Jun	29.7	12.8
Yellowstone +1/	69.7	-	-	-	62.3	169.0	18-Jun	31.7	11.7
Average	66.2	64.3	62.3	60.4	62.8	165.9	15-Jun	29.3	12.2
LSD (0.05)	11.2	ns	6.2	5.3	0.8	3.5		2.2	0.9
C.V.	10.4	6.8	6.1	6.1	0.8	1.3		4.6	4.4

bold = indicates highest value within a column 1/ Yellowstone mis-planted in 2017: no 2, 3, and 4 year data 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 2/ = approved for release in 2019, name pending

(HWW) = Hard White Winter Wheat

<u>Trader's Dispatch, April 2019 — Page C34</u>

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UPCOMING AUCTIONS

Ray Cox Estate, June 22, 2019 Donald Kovacich Estate Aug. 2, 2019 Donald Kovacich Estate Aug. 10, 2019

Winter wheat variety performance summary

CONTINUED FROM PAGE C30

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

							2018	Data		
Cultivar/Line	G	rain Yield (l	bushels/ac	re)	Test	Headir	ng Date	Plant	Sawfly	Protein
	2018	2017-17	2015-18	2015-18	weight	Ordinal	Calendar	height	cutting	
		2 yr	3 yr	4 yr	lb/bu	from Jan1		in	%	%
07CL046-2,SY Legend CL2, P++	71.5				61.5	156.4	5-Jun	24.9	11.6	13.4
AAC Wildfire	61.7				60.7	166.0	15-Jun	31.2	18.9	13.7
Bearpaw +	48.2	60.5	72.1	70.8	62.5	159.1	8-Jun	26.5	7.9	<u>15.7</u>
Brawl CLP +	65.5	73.0	79.7	81.2	63.6	152.5	2-Jun	26.6	9.9	13.1
CO13003C,Byrd CL Plus +	<u>76.5</u>	<u>79.9</u>			61.0	155.5	5-Jun	27.3	20.9	12.9
Decade +	52.5	59.9	71.8	72.1	62.4	158.6	8-Jun	26.2	12.1	14.9
FourOsix ++	60.8	66.1	78.8		61.2	158.8	8-Jun	25.3	29.1	14.0
Incline AX ++	68.3				61.1	157.1	6-Jun	26.4	15.0	11.9
Judee +	57.0	65.3	73.3	70.8	63.3	160.1	9-Jun	27.7	8.5	15.2
Keldin (P)+	61.5	70.8	83.7	85.2	62.4	160.9	10-Jun	25.8	27.2	13.8
Langin ++	69.0	77.9			61.8	152.4	1-Jun	24.0	10.8	12.3
LCS Chrome (P)++	56.1	66.0			62.1	156.2	5-Jun	26.7	42.4	14.3
LCS Jet (P)+	66.7	75.9			60.3	161.7	11-Jun	24.8	17.6	13.8
LCS Link (P)++	50.7	00.7	77.0	70.5	64.2	155.0	4-Jun	24.3	10.7	14.6
Loma ++	64.6	68.7	77.8	78.5	62.6	162.9	12-Jun	26.8	10.6	14.9
Long Branch P+	63.8	77.9			63.1	152.7	2-Jun	23.7	16.9	13.1
LWW14-73915, LCS Zoom (P)++	72.8 58.1	67.8	78.4	78.9	60.1 61.6	154.8	4-Jun	24.2 30.2	39.6 20.7	12.8
MT1265	59.8	64.6	78.4	78.9		164.5 159.7	14-Jun 9-Jun	27.0		14.4
MT1547 MT1563	59.6	67.6			61.3 60.7	163.5	13-Jun	30.8	24.4 19.9	14.1 14.3
MT1564	53.1	63.0			61.4	156.0	5-Jun	26.4	15.1	15.2
MT16101	56.6	65.0			62.5	156.4	5-Jun	27.7	11.7	13.2
MT1642	60.9				60.6	164.1	13-Jun	29.7	10.9	14.7
MT1683	58.5				61.2	163.4	12-Jun	29.1	26.4	14.5
MT1687	54.1				61.9	157.6	7-Jun	26.7	16.1	15.3
MT1688	57.9				61.2	157.5	7-Jun	24.6	23.4	15.1
MT1695	48.9				61.5	156.1	5-Jun	25.4	15.4	14.6
MTCS1601	71.3				61.9	160.3	9-Jun	28.0	8.5	13.7
MTF1435 ++	56.5	61.9			61.0	164.0	13-Jun	33.1	15.9	13.8
MTF1631	59.1				61.3	161.7	11-Jun	32.4	21.7	13.7
MTS1588	67.0	73.3			62.7	160.9	10-Jun	25.3	1.2	14.5
MTV1681	49.3				60.6	160.6	10-Jun	25.3	24.3	14.8
MTW1491 (HWW)	57.3	64.1	76.5		61.4	161.7	11-Jun	30.4	14.3	14.1
Northern +	55.1	64.7	77.6	80.2	62.0	162.9	12-Jun	26.0	17.0	14.5
NSA10-2196, LCS Rocket (P)++	62.4				60.2	159.4	8-Jun	24.8	32.5	13.3
Oahe ++	61.2				61.7	155.5	5-Jun	27.3	21.2	13.3
PSB13NEDH-7-140 (P)	59.6	65.8			61.9	157.6	7-Jun	27.2	17.3	14.8
Ray ++	61.4	65.4			60.0	165.3	14-Jun	31.8	21.7	13.8
SY 517 CL2 P++	69.0	72.7			63.0	152.3	1-Jun	23.8	9.1	12.8
SY Clearstone 2CL P+	65.5	73.2	81.4	81.8	59.9	163.6	13-Jun	30.7	17.7	14.0
SY Monument (P)+	63.7	71.4	84.6	84.5	61.4	157.3	6-Jun	23.8	29.4	13.1
SY Sunrise (P)+	63.9	70.3	77.1	78.4	63.3	154.6	4-Jun	22.3	30.0	12.8
SY Wolf (P)+	63.9	71.8	84.3	86.0	62.9	158.0	7-Jun	25.5	9.4	14.0
Warhorse +	50.0	58.0	66.9	64.7	60.3	160.0	9-Jun	26.0	3.6	15.0
WB4483 (P)+	61.7	64.7	77.2		61.9	162.0 160.4	11-Jun	26.4	14.3	14.7
WB4575 (P)++	64.1 67.4	69.4 70.6	78.6 82.8	81.0	64.3 62.9	160.4	9-Jun 10-Jun	25.9 28.2	11.1 12.7	14.2 13.9
WB4614 (P)+ WB4623CLP (P)+	71.0	69.5	82.8 78.5	75.7	61.9	160.2	9-Jun	25.8	32.1	14.3
Yellowstone +1/	56.4				60.9	163.4		29.9	20.4	
reliowstone +	56.4	-	-	-	60.9	163.4	12-Jun	29.9	20.4	14.6
Average	61.0	64.5	78.0	78.0	61.7	159.2	8-Jun	26.9	17.9	14.0
LSD (0.05)	11.0	8.8	8.2	7.8	1.4	2.1	0-Juil	3.3	13.0	0.8
C.V.	10.4	6.3	6.3	7.0	1.4	0.8		7.1	43.4	3.2
			0.0			0.0			1317	

							2018 🗅			
Cultivar/Line		rain Yield (l			Test	\vdash	ng Date	Plant	Sawfly	Protein
	2018	2017-17	2015-18	2015-18	weight		Calendar		cutting	
		2 yr	3 yr	4 yr	lb/bu	from Jan1		in	%	%
07CL046-2,SY Legend CL2, P++	55.0				63.2	156.0	5-Jun	24.7	7	14.0
AAC Wildfire	<u>72.5</u>	50.4	55.0	50.0	62.2	163.0	12-Jun	25.3	6	13.8
Bearpaw +	57.9	50.4	55.0	56.3	62.8	160.0	9-Jun	21.7	2	14.9
Brawl CLP +	57.6 58.8	50.6 55.6	63.6	60.8	64.3 63.4	153.7 154.9	3-Jun 4-Jun	27.2 25.0	7 4	14.0 12.6
CO13003C,Byrd CL Plus + Decade +	53.6	51.0	60.9	60.5	62.6	154.9	7-Jun	25.8	4	14.7
FourOsix ++	60.3	55.4	69.8	60.5	62.6	158.0	7-Jun 7-Jun	25.0	4	14.7
Incline AX ++	63.7	33.4	03.0		62.6	157.7	7-Jun	25.0	3	12.5
Judee +	55.7	52.6	63.5	62.7	63.6	158.9	8-Jun	24.6	5	15.5
Keldin (P)+	68.6	62.7	<u>77.7</u>	73.6	63.1	159.4	8-Jun	25.4	7	13.7
Langin ++	62.3	55.8	<u> </u>	10.0	63.2	153.6	3-Jun	22.4	2	12.9
LCS Chrome (P)++	54.5	51.0			63.0	158.6	8-Jun	23.5	8	14.6
LCS Jet (P)+	59.5	53.9			60.7	160.4	9-Jun	21.8	5	13.8
LCS Link (P)++	49.5				63.4	156.7	6-Jun	24.3	7	14.9
Loma ++	60.5	54.6	63.3	61.4	62.6	162.6	12-Jun	23.4	4	14.4
Long Branch P+	64.6	57.6			63.2	154.3	3-Jun	23.6	4	12.2
LWW14-73915, LCS Zoom (P)++	53.8				60.9	156.3	5-Jun	23.2	7	13.8
MT1265	58.0	56.5	73.3	69.6	61.7	162.3	11-Jun	23.5	13	14.5
MT1547	59.4	54.7			62.7	158.6	8-Jun	25.9	4	14.1
MT1563	61.0	60.2			62.0	161.0	10-Jun	25.8	9	14.0
MT1564	61.2	56.4			63.6	156.0	5-Jun	26.9	2	13.8
MT16101	55.8				62.5	156.0	5-Jun	26.0	2	14.5
MT1642	60.1				60.6	164.4	13-Jun	27.2	13	15.3
MT1683	61.5				61.4	159.7	9-Jun	26.2	8	14.6
MT1687	58.7				63.1	156.0	5-Jun	26.4	9	14.4
MT1688	60.0				63.2	156.0	5-Jun	26.2	7	14.4
MT1695	56.5				62.6	156.1	5-Jun	26.5	6	13.9
MTCS1601	55.5	50.0			62.9	159.3	8-Jun	25.1	4	14.7
MTF1435 ++	55.0 57.5	50.0			60.6 62.0	161.4 160.3	10-Jun 9-Jun	32.1 29.1	7 8	14.2 14.4
MTF1631 MTS1588	62.7	59.4			62.7	160.3	9-Jun 9-Jun	29.1	2	14.4
MTV1681	61.7	55.4			62.1	158.7	8-Jun	25.6	4	14.1
MTW1491 (HWW)	60.5	60.3	76.9		62.4	159.7	9-Jun	25.9	11	14.0
Northern +	56.5	54.3	70.8	68.4	62.3	160.0	9-Jun	24.3	4	14.2
NSA10-2196, LCS Rocket (P)++	56.2	04.0	70.0	00.4	60.5	159.0	8-Jun	23.7	8	13.3
Oahe ++	49.2				63.4	155.4	4-Jun	26.8	3	14.3
PSB13NEDH-7-140 (P)	48.9	51.3			62.2	156.7	6-Jun	26.0	5	16.1
Ray ++	60.6	56.5			59.8	162.7	12-Jun	29.9	15	14.3
SY 517 CL2 P++	51.3	43.5			64.1	154.6	4-Jun	25.2	2	14.1
SY Clearstone 2CL P+	61.8	54.8	69.3	66.5	61.4	160.7	10-Jun	27.5	11	14.3
SY Monument (P)+	59.3	56.2	71.9	70.4	62.4	158.0	7-Jun	24.2	3	13.0
SY Sunrise (P)+	61.0	56.8	68.8	67.6	63.8	156.6	6-Jun	21.3	3	12.8
SY Wolf (P)+	59.7	56.8	70.4	67.8	63.4	155.7	5-Jun	23.8	4	14.2
Warhorse +	57.0	50.5	63.6	62.8	62.5	159.9	9-Jun	23.3	<u>0</u>	14.9
WB4483 (P)+	61.2	56.3	66.7		63.0	161.7	11-Jun	24.2	3	14.8
WB4575 (P)++	61.7	56.4	62.8		64.3	158.6	8-Jun	23.3	2	14.6
WB4614 (P)+	56.9	54.1	68.5	66.4	62.9	160.7	10-Jun	23.7	7	14.7
WB4623CLP (P)+	52.7	48.2	60.4	59.1	62.1	160.0	9-Jun	22.7	7	14.8
Yellowstone +1/	61.9	-	-	-	61.7	161.0	10-Jun	26.8	8	14.2
Average	58.6	54.5	67.2	64.9	62.5	158.6	8-Jun	25.1	5.7	14.2
LSD (0.05)	7.3	6.6 5.9	10.4	8.0 8.6	0.4	1.6		2.2	5.7 6.4	0.7 2.7
		u	94.3	A h		. ub		7 4	n 4	//

8.6 | 0.4 | 0.6 5.3 6.4 2.7 1/ Yellowstone mis-planted in 2017: no 2, 3, and 4 year data

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 2/ = approved for release in 2019, name pending

(HWW) = Hard White Winter Wheat

<u>Trader's Dispatch, April 2019 — Page C36</u>

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Winter wheat variety performance summary

CONTINUED FROM PAGE C34

Table 9. HARD WINTER: District 5-- Carter/Ft. Benton (Northern Seeds) - Dryland

Table 9. HARD WINTER: Dis	Strict 5	Carteri	*** Test not			anu	
						B Data	
Cultivar/Line	Grai	n Yield (l	oushels/acre)	Test	Plant	Sawfly	Protein
	2018	2017-17	2016-18	weight	height	cutting	
		2 yr	3 yr	lb/bu	in	%	%
07CL046-2,SY Legend CL2, P++	69.3			60.1	30	33	11.8
AAC Wildfire	70.2	50.5	00.4	59.9	37	7	12.3
Bearpaw +	70.7	58.5	60.4 61.8	61.7	32	25	11.9
Brawl CLP + CO13003C,Byrd CL Plus +	63.2 73.8	55.6 63.1	01.0	62.7 60.2	26 33	38 47	12.3 11.6
Decade +	66.8	59.8	64.1	59.8	31	38	12.5
FourOsix ++	53.5	53.1	58.7	60.1	30	73	12.2
Incline AX ++	54.9			59.0	28	43	11.5
Judee +	64.0	59.2	60.3	61.0	30	30	12.4
Keldin (P)+	60.0	58.6	63.3	60.1	32	47	11.9
Langin ++	58.2	51.5		60.0	24	75	11.0
LCS Chrome (P)++	65.5	53.6		60.5	32	63	12.0
LCS Jet (P)+	54.6	55.2		57.5	29	47	11.9
LCS Link (P)++	70.7	60.1	67.0	60.8	27	53	11.2
Long Branch Bt	67.1 67.2	62.1	67.3	59.3 60.8	30 28	18 53	12.3
Long Branch P+ LWW14-73915, LCS Zoom (P)++	53.9	58.0		55.0	30	80	10.9 12.0
MT1265	63.2	53.4	59.1	59.7	34	72	11.7
MT1547	63.5	55.8	00.1	59.6	28	90	12.8
MT1563	65.9	53.7		59.0	35	70	12.3
MT1564	58.8	59.3		60.1	28	85	11.8
MT16101	55.0			60.4	31	80	12.1
MT1642	66.7			58.5	32	40	12.2
MT1683	67.5			59.5	32	92	11.7
MT1687	58.6			60.7	27	78	12.2
MT1688 MT1695	62.3 54.4			59.7 58.8	29 25	72 92	12.4 12.1
MTCS1601	52.8			60.6	33	40	12.1
MTF1435 ++	63.7	51.9		59.4	41	47	12.2
MTF1631	65.2			59.8	39	53	12.5
MTS1588	68.6	63.1		61.4	29	2	11.6
MTV1681	53.3			58.6	30	57	12.6
MTW1491 (HWW)	61.0	56.8	61.8	59.2	30	83	11.9
Northern +	69.7	56.2	60.9	59.8	34	43	12.1
NSA10-2196, LCS Rocket (P)++ Oahe ++	52.2 83.0			55.5 61.3	28 33	87 67	11.6 11.5
PSB13NEDH-7-140 (P)	62.7	58.5		61.8	29	60	12.3
Ray ++	56.6	48.3		58.1	36	43	12.2
SY 517 CL2 P++	59.0	59.1		61.8	27	43	12.3
SY Clearstone 2CL P+	68.5	56.0	61.3	59.1	34	88	12.3
SY Monument (P)+	76.4	60.4	66.5	58.6	29	60	11.5
SY Sunrise (P)+	72.1	60.2	61.1	60.5	24	35	11.6
SY Wolf (P)+	60.2	53.4	58.8	62.1	26	18	11.8
Warhorse +	72.4	62.7	62.7	60.7	30	<u>0</u>	12.6
WB4483 (P)+	56.0 81.1	57.7 64.7	61.9 67.9	60.0 62.2	33 27	27 32	12.2 12.2
WB4575 (P)++ WB4614 (P)+	72.7	64.7	61.2	61.3	30	32 38	11.9
WB4614 (P)+ WB4623CLP (P)+	58.5	53.7	54.8	61.5	27	23	12.9
Yellowstone +1/	70.0	-	-	58.8	33	92	12.1
						J=	
Average	64.0	57.4	61.8	59.9	30.4	52.7	12.0
LSD (0.05)	16.5	ns	ns	1.6		22.7	
C.V.	15.9	12.1	10.8	1.6		26.6	

bold = indicates highest value within a column

1/ Yellowstone mis-planted in 2017: no 2, 3, and 4 year data

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 2/ = approved for release in 2019, name pending

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.

"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.

Management 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, in addition to extending research from the University of Wyoming to the people across the state. The UW Range Club won the top award competing against 26 other universities in competition at the SRM meeting.

Scasta said SRM has long been his professional home and it has endeavored to improve rangelands and the people relying on rangelands – efforts he supports and pursues personally.

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

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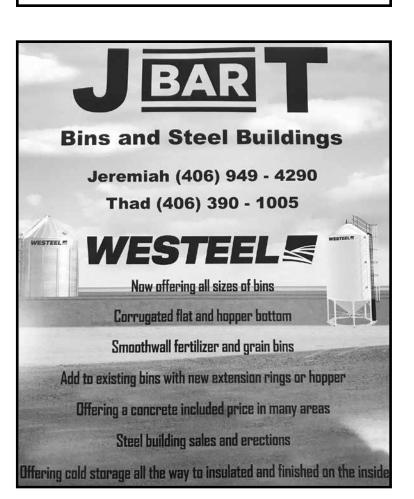
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Winter wheat variety performance summary

CONTINUED FROM PAGE C36

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

Table To. TIAIND WINTER. D	Jan Ct O v	Dianey - Di								
			2015 =	sev	ere winter	-kill, no h				
0.11:11:			1.1.	\rightarrow	T .	147: 1		Data	Di i	D 1 1
Cultivar/Line			oushels/acre)	-	Test	Winter		ng Date	Plant	Protein
	2018	2017-17	2016-18	\rightarrow	weight	survival		Calendar		
	00.4	2 yr	3 yr		lb/bu	%	from Jan1		in	%
07CL046-2,SY Legend CL2, P++	63.1				62.8	34	159.5	9-Jun	26.0	11.6
AAC Wildfire	70.3	540	50.0		61.8	65	162.5	12-Jun	29.1	10.5
Bearpaw +	72.9	54.2	50.6		63.2	45	162.0	11-Jun	26.4	11.7
Brawl CLP +	60.7	44.7 59.7	54.6		64.4	45 59	156.0	5-Jun	24.2	12.2
CO13003C,Byrd CL Plus + Decade +	77.3 73.4	62.1	60.5		62.6 62.5		158.0 157.5	7-Jun 7-Jun	27.8 25.8	9.8 10.9
FourOsix ++	68.0					<u>69</u> 48	160.0		26.6	10.9
Incline AX ++	68.9	54.6	56.4		62.5 62.7	30	160.0	9-Jun 9-Jun	25.0	10.7
Judee +	66.7	40.2	44.7		63.8	49	160.0	9-Jun	27.6	11.8
Keldin (P)+	92.1	61.0	67.0		64.1	57	160.0	9-Jun	29.1	10.2
Langin ++	68.7	51.8	07.0		63.4	59	155.0	4-Jun	25.8	9.6
LCS Chrome (P)++	76.6	58.4			64.2	44	157.5	7-Jun	27.8	11.4
LCS Jet (P)+	42.2	37.1			57.0	14	163.0	12-Jun	21.7	12.8
LCS Link (P)++	61.8	57.1			64.2	54	156.5	6-Jun	25.8	11.1
Loma ++	72.0	54.3	51.8		61.8	46	162.5	12-Jun	26.6	12.1
Long Branch P+	68.4	51.1	01.0		62.3	50	156.5	6-Jun	24.0	10.3
LWW14-73915, LCS Zoom (P)++	45.5	• • • • • • • • • • • • • • • • • • • •			54.8	18	160.0	9-Jun	23.8	12.4
MT1265	82.9	63.7	68.2		62.8	52	162.0	11-Jun	30.3	10.9
MT1547	76.0	60.9	<u></u>		62.3	55	160.0	9-Jun	27.6	10.5
MT1563	60.6	52.1			62.5	61	160.0	9-Jun	26.6	9.2
MT1564	57.2	48.3			63.9	44	157.0	6-Jun	24.6	10.6
MT16101	44.9				62.5	21	162.0	11-Jun	27.8	12.6
MT1642	63.4				61.5	39	163.0	12-Jun	29.7	12.0
MT1683	82.0				62.1	53	162.0	11-Jun	29.5	10.8
MT1687	69.8				62.3	57	156.5	6-Jun	26.0	11.5
MT1688	67.5				61.9	57	157.0	6-Jun	27.8	11.0
MT1695	47.3				62.3	25	159.5	9-Jun	24.8	12.2
MTCS1601	69.8				64.6	61	160.0	9-Jun	27.8	9.5
MTF1435 ++	51.2	46.8			60.5	45	162.5	12-Jun	31.3	10.8
MTF1631	73.8				62.4	53	161.0	10-Jun	33.5	11.5
MTS1588	64.3	51.1			64.0	52	162.0	11-Jun	24.2	10.8
MTV1681	74.8				62.3	57	160.0	9-Jun	27.8	11.1
MTW1491 (HWW)	72.9	55.0	58.8		62.9	56	161.0	10-Jun	27.6	11.0
Northern +	83.7	60.2	59.7		63.2	49	161.5	11-Jun	27.8	11.1
NSA10-2196, LCS Rocket (P)++	10.9				- C4.4	0	162.0	11-Jun	22.8	12.6
Oahe ++ PSB13NEDH-7-140 (P)	74.2 79.9	59.1			64.4 65.0	54 54	157.0 158.0	6-Jun 7-Jun	28.1 30.1	11.4 11.6
Ray ++	71.9	57.7			60.5	44	162.5	12-Jun	32.1	11.0
SY 517 CL2 P++	60.3	43.1			64.2	39	155.5	5-Jun	25.0	11.0
SY Clearstone 2CL P+	65.1	53.2	56.2		61.3	48	162.5	12-Jun	30.1	11.5
SY Monument (P)+	80.2	62.6	65.1		61.8	60	158.5	8-Jun	25.2	9.6
SY Sunrise (P)+	70.8	59.2	64.7		63.5	55	157.0	6-Jun	24.0	10.6
SY Wolf (P)+	70.9	52.1	60.2		64.9	51	157.0	6-Jun	25.4	10.6
Warhorse +	69.1	50.9	49.3		62.5	52	162.0	11-Jun	27.2	11.8
WB4483 (P)+	72.3	53.5	54.8		61.7	51	162.0	11-Jun	28.0	12.2
WB4575 (P)++	80.5	62.0	62.9		64.8	57	159.0	8-Jun	26.6	12.0
WB4614 (P)+	66.0	53.9	60.8		63.6	53	161.0	10-Jun	23.4	10.1
WB4623CLP (P)+	41.7	23.5	35.5		61.4	12	164.5	14-Jun	22.6	14.2
Yellowstone +1/	72.7	-	-		62.1	62	162.0	11-Jun	28.3	10.4
									_3.0	
Average	66.9	53.0	56.9		62.6	47.3	159.9	9-Jun	26.9	11.2
LSD (0.05)	13.4	15.9	14.2		1.7	12.4	2.6		3.2	1.5
C.V.	10.0	14.7	15.7		1.4	15.1	0.8		5.9	6.8

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

						terkill *** 2018 Data	1	
Cultivar/Line	Grain	Yield (bushels/ac	re)	Test		ng Date	Plant	Protei
	2018	2016//18	2015//18	weight	Ordinal	Calendar	height	
	1y	2 yr	3 yr	lb/bu	from Jan1		in	%
07CL046-2,SY Legend CL2, P++	38.0	•		60.3	153.3	2-Jun	23.6	13.6
AAC Wildfire	55.1			61.0	159.7	9-Jun	22.9	13.8
Bearpaw +	42.0	50.6	43.4	58.7	154.8	4-Jun	21.0	14.6
Brawl CLP +	38.6	54.6	38.0	61.2	150.9	31-May	21.6	14.0
CO13003C,Byrd CL Plus +	43.4	0.1.0	00.0	59.8	152.1	1-Jun	25.6	12.5
Decade +	44.3	60.5	47.3	59.7	154.0	3-Jun	24.0	14.0
FourOsix ++	46.8	56.4		60.1	155.0	4-Jun	21.8	13.9
Incline AX ++	42.7			59.8	155.7	5-Jun	22.9	12.8
Judee +	43.9	44.7	39.5	61.2	155.4	4-Jun	23.9	14.3
Keldin (P)+	45.3	67.0	42.8	60.7	155.9	5-Jun	23.9	12.8
Langin ++	37.5	07.0	72.0	59.3	151.1	31-May	23.0	12.0
LCS Chrome (P)++	38.9			60.7	154.7	4-Jun	23.1	13.7
LCS Jet (P)+	43.0			58.1	156.7	6-Jun	20.5	13.5
LCS Link (P)++	41.6			60.6	153.8	3-Jun	23.3	13.4
Loma ++	46.6	51.8	48.8	59.7	157.7	7-Jun	21.4	13.9
Long Branch P+	33.8	31.0	40.0	59.7	152.0	1-Jun	20.8	12.5
	43.9			56.2	154.2	3-Jun	21.8	13.3
LWW14-73915, LCS Zoom (P)++ MT1265	48.7	68.2	52.5	60.4	154.2	6-Jun	25.2	14.0
MT1547	46.8	00.2	32.3	60.0	154.9	4-Jun	22.8	14.0
	53.1			60.5				
MT1563					157.0	6-Jun	25.5	13.0
MT1564	44.5 43.9			60.1 60.4	152.3 153.4	1-Jun	23.5 23.5	13.4
MT16101	1			1	ı	2-Jun		14.1
MT1642	50.8 48.7			59.4 59.8	159.6 156.3	9-Jun	23.9 24.4	14.0 13.3
MT1683	45.1					5-Jun		13.9
MT1687 MT1688	41.1			60.0 59.2	154.3 154.2	3-Jun 3-Jun	24.4 23.4	13.5
MT1695	40.6			59.9	152.6	2-Jun	23.5	13.1
MTCS1601	42.9			59.3	156.0	5-Jun	24.0	14.1
MTF1435 ++	41.1			60.0	157.7	7-Jun	27.7	13.4
MTF1631	47.7			60.5	157.0	6-Jun	27.9	14.0
MTS1588	47.0			59.6	156.7	6-Jun	22.4	14.4
MTV1681	46.6	50.0		59.5	155.3	4-Jun	23.5	14.0
MTW1491 (HWW)	47.7	58.8	40.7	60.4	156.7	6-Jun	22.9	13.2
Northern +	45.4	59.7	48.7	60.6	157.1	6-Jun	21.5	14.
NSA10-2196, LCS Rocket (P)++	45.2			56.8	156.7	6-Jun	21.3	12.
Oahe ++	42.5			60.5	152.8	2-Jun	24.4	13.0
PSB13NEDH-7-140 (P)	43.5			61.1	152.7	2-Jun	25.6	14.
Ray ++	41.6			57.8	159.3	8-Jun	24.7	13.9
SY 517 CL2 P++	39.4	50.0	40.4	60.1	151.4	31-May	21.4	13.4
SY Clearstone 2CL P+	45.5	56.2	48.1	59.6	156.9	6-Jun	25.6	13.9
SY Monument (P)+	42.2	65.1	46.2	58.7	154.3	3-Jun	22.3	12.4
SY Sunrise (P)+	40.0	64.7	39.0	59.7	152.3	1-Jun	20.5	12.9
SY Wolf (P)+	43.8	60.2	46.1	61.4	152.4	1-Jun	21.6	13.
Warhorse +	45.2	49.3	42.3	60.0	157.4	6-Jun	24.1	14.4
WB4483 (P)+	43.8	54.8		58.8	157.7	7-Jun	21.4	14.0
WB4575 (P)++	42.7	62.9	46.0	61.1	155.1	4-Jun	23.1	14.
WB4614 (P)+	44.6	60.8	46.8	60.1	157.0	6-Jun	23.2	14.
WB4623CLP (P)+	41.0	35.5	37.0	60.5	156.3	5-Jun	22.9	14.
Yellowstone +	46.9	52.8	56.6	60.0	157.0	6-Jun	26.4	13.
Average	44.0	48.3	45.2	59.8	155.2	4-Jun	23.3	13.
LSD (0.05)	4.8	ns	ns	0.6	1.5	4-5uii	2.6	0.5
C.V.	6.5	7.7	16.5	0.7	0.6		6.8	2.2

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 2/ = approved for release in 2019, name pending

(HWW) = Hard White Winter Wheat

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wfly Pressure and % Sawfly Cutting (2013//2018)

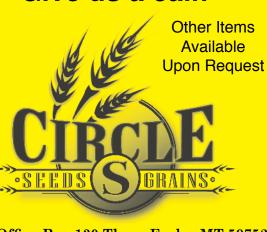
(Note: Sawfly cutting in each location-year ≥10%

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Winter wheat variety performance summary

CONTINUED FROM PAGE C40

Table 12. 2013//2018 Intrastate Winter Wheat Test (Exp. 35): Combined Locations Winter Survival and associated Yield (Locations: Williston (2013, 2015), Sidney (2017, 2018) = 4 locations

	,	*** No re		interkill wit	-	in 2014 and	2016 ***	l
			ırvival (%)	mennin, mi		ld under Win		one
	2018	2017-18	2015//18	2013//18	2018	2017-18	2015//18	2013//18
location-years	1	2017-10	3	4	1	2017-10	3	4
07CL046-2,SY Legend CL2, P++	34		<u> </u>	-	63.1			
AAC Wildfire	65				70.3			
Bearpaw +	45	40	51	44	72.9	54.2	50.4	50.0
Brawl CLP +	45	36	42		60.7	44.7	38.3	00.0
CO13003C,Byrd CL Plus +	59	47	72		77.3	59.7	00.0	
Decade +	69	66	70	59	73.4	62.1	57.3	57.2
FourOsix ++	48	47			68.0	54.6		
Incline AX ++	30				68.9			
Judee +	49	36	38	32	66.7	40.2	36.1	36.4
Keldin (P)+	57	43	38		92.1	61.0	50.0	
Langin ++	59	48			68.7	51.8		
LCS Chrome (P)++	44	43			76.6	58.4		
LCS Jet (P)+	14	13			42.2	37.1		
LCS Link (P)++	54				61.8			
Loma ++	46	43	60		72.0	54.3	53.5	
Long Branch P+	50	50			68.4	51.1		
LWW14-73915, LCS Zoom (P)++	18				45.5			
MT1265	52	49	62		82.9	<u>63.7</u>	<u>58.6</u>	
MT1547	55	52			76.0	60.9		
MT1563	61	58			60.6	52.1		
MT1564	44	46			57.2	48.3		
MT16101	21				44.9			
MT1642	39				63.4			
MT1683	53				82.0			
MT1687	57				69.8			
MT1688	57				67.5			
MT1695	25				47.3			
MTCS1601	61	45			69.8	40.0		
MTF1435 ++	45 53	45			51.2	46.8		
MTF1631	53 52	36			73.8 64.3	51.1		
MTS1588 MTV1681	52 57	36			74.8	51.1		
MTW1491 (HWW)	56	50			74.0	55.0		
Northern +	49	43	57	50	83.7	60.2	57.0	58.1
NSA10-2196, LCS Rocket (P)++	0	43	٥,	30	10.9	00.2	57.0	<u>50.1</u>
Oahe ++	54				74.2			
PSB13NEDH-7-140 (P)	54	51			79.9	59.1		
Rav ++	44	39			71.9	57.7		
SY 517 CL2 P++	39	30			60.3	43.1		
SY Clearstone 2CL P+	48	47	56	47	65.1	53.2	50.7	50.6
SY Monument (P)+	60	54	61		80.2	62.6	55.3	
SY Sunrise (P)+	55	59	51		70.8	59.2	47.5	
SY Wolf (P)+	51	44	48	42	70.9	52.1	46.7	48.4
Warhorse +	52	51	60	53	69.1	50.9	47.5	49.2
WB4483 (P)+	51	47			72.3	53.5		
WB4575 (P)++	57	53			80.5	62.0		
WB4614 (P)+	53	43	55		66.0	53.9	50.5	
WB4623CLP (P)+	12	6	9		41.7	23.5	20.5	
Yellowstone +1/	62	-	-	-	72.7	-	-	-
Average	47.3	44.2	50.4	46.6	66.9	53.0	48.0	50.0
LSD (0.05)	12.4	13.7	21.3	11.6	13.4	15.9	12.8	7.5
CV	45.4	45.2	25.2	46.0	400	447	450	40.4

•											era D (0 V.	B45 B46 B46 Ilov
var/Line		Gr	Grain Yield (bu/a)	/a)			Saw	Sawfly Cutting (%)	(%)			14 23
for 2018 in Off Sta.	2018	2017-18	2016-18	2015-18	2013//18	2018	2017-18	2016-18	2015-18	2013//18	5)	(P)
Location-years	9	8	10	11	13	9	80	10	11	13		+ P (F
MI CLP +	9.09	56.4				29	35					
ade +	57.4	52.4	97.2	56.6	9.75	45	45	43	39	36		
rOsix ++	56.9	53.6				62	28					
- ee +	58.7	53.2	9.09	29.0	9.09	45	40	37	34	31		
lin (P)+	59.2	54.8	63.3			51	53	53				
Jet (P)+	57.0					58					1	
ia ++ (ss)	62.7	56.9	61.6	60.2		33	32	28	27		7.3 2.4 5.1	57 53 12 52
265	56.4	52.9	58.6	58.1		61	28	26	53			
547	56.3					29						
563	58.8					22					1:	4
564	56.7					55					4.2 3.7 5.3	53 13 6
642	60.2					49						
31601	0.09					39						
1435 ++	53.9	50.1				54	49				21	,
1588 (ss)	0.99	0.09				က	9).4 .3 .3	5 5 9
1681	51.5					43	I					
V1491	57.9	53.0				65	61					
hern +	61.0	55.3	60.3	59.9	62.0	58	51	46	43	38	46 11 16	-
‡	9.99	52.2				58	53				.6	
Slearstone 2CL (P)+	29.7	54.7	62.4	61.2	62.4	89	61	59	55	49		
Monument (P)+	61.3	56.4				54	53					
Volf (P)+	56.8	52.8	59.6	58.7		35	39	37	35		66. 13. 10.	80. 66. 41. 72.
horse +	55.6	51.3	55.5	54.4	56.2	9	7	Ŋ	12	S	4	.0 .7
1483 (P)+	26.0					40				l		
owstone +	59.4	55.0	61.3	6.65	61.0	65	22	26	52	46	1	5
						:		:			3.0 5.9 4.7	2.0 3.9 3.5
rage	58.3	54.2	60.1	28.7	59.9	48.0	44.4	41.9	38.0	34.1))
(0.05)	5.5	4.4	ns	us	4.4	15.5	15.2	12.4	11.8	11.3		
(%)	8.3	8.1	10.1	9.5	9.3	28	34	33	36	42	1	
dicates highest value within a column	a column										48. 12. 15.	50. 20.

bold = indicates varieties with values equal to highest variety within a column base

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Avera LSD C.V.

(HWW) = Hard White Winter Wheat

<u>Trader's Dispatch, April 2019 — Page C46</u>

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LAND FOR SALE: 1,247 acres with approximately 1,220 acres cropland located between 3 miles & 8 miles South of US Highway 2 near Joplin, MT. Includes older farm house, several metal storage buildings of various sizes, and 3 grain storage bins. Cropland is leased with rent payment paid annually giving ROI to new owner. Total price is \$1,558,750.



JUST LISTED: E Hanging T Ranch located 18 miles south of Chinook: in foothills of Bears Paw Mtns with 7,000 +/- deeded acres plus 1,170 acres State lease. Multiple reservoirs & wells, spring & water rights, older ranch home plus outbuildings including large calving barn and horse barn. Sale price \$5.5 million.



BLAINE COUNTY RANCH FOR SALE: 714 acres with approximately 430 acres irrigated hay land, 2 building sites with homes & barns, good corrals, and a working feedlot. All located along the Milk River and East of Chinook. Good Whitetail Deer and Pheasant hunting. More land could be available. Total price is \$1.400,000.

For any questions or a showing (or to BUY!!), please call Broker Mark Pyrak at 406-788-9280 or Broker Shane Ophus at 406-788-6662

> 406-622-3803 www.fbrealty.com

Winter wheat variety performance

CONTINUED FROM PAGE C42

Additional Descriptive Information for Winter Wheat Varieties

New for the 2019 Bulletin:

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 average yield, test weight, and protein, with above average winter survival. AAC Wildfire is moderately resistant to stripe rust. Mill and bake characteristics, under Montana conditions, have not been determined.

Byrd CL Plus - hard red winter wheat developed by Colorado and released in 2018. Byrd CL Plus is an early maturing, hollow-stemmed, medium-tall wheat with white chaff. Byrd CL Plus has above average yield, average test weight, and below average protein, with average winter survival. Resistance or susceptibility to stripe rust, under Montana conditions, has not been determined for Byrd CL Plus. Mill and bake characteristics, under Montana conditions, have not been determined PVP, Title V will be applied for. Additionally, the CLEARFIELD genes are patented.

Incline AX – hard red winter wheat developed by Colorado and released in 2017. Incline AX is the first wheat to be released as part of the CoAXium Wheat Production System for use in control of grassy weeds. Incline AX is a medium maturing, hollow-stemmed, medium height wheat with white chaff. Incline AX has below average yield, test weight, and protein, with below average winter survival. Resistance or susceptibility to stripe rust, under Montana conditions, has not been determined for Incline AX. Mill and bake characteristics, under Montana conditions, have not been determined. PVP, Title V will be applied for. Additionally, the CoAXium genes are patented.

LCS Link – hard red winter wheat developed by Limagrain LLC and released in 2017. LCS Link is an early maturing, hollow-stemmed, short wheat with white chaff. LCS Link has average yield, above average test weight, and average protein with average winter survival. Resistance or susceptibility to stripe rust, under Montana conditions, has not been determined for LCS Link. Mill and bake characteristics, under Montana conditions, have not been determined PVP, Title V is pending (Certificate #201700394). LCS Link will not be in the Montana Intrastate Winter Wheat Test for 2019.

LCS Rocket – hard red winter wheat developed by Limagrain LLC and released in 2017. LCS Rocket is a medium maturing, hollow-stemmed, short wheat with white chaff. LCS Rocket has average yield, below average test weight and protein, with extremely low winter survival (in limited testing). Resistance to stripe rust, under Montana conditions, appears to be high - since it was the leading variety at Kalispell, in 2018, where stripe rust impacted yield. Mill and bake characteristics, under Montana conditions, have not been determined PVP, Title V is pending (Certificate #201800534). LCS Rocket will not be in the Montana Intrastate Winter Wheat Test for 2019.

LCS Zoom – hard red winter wheat developed by Limagrain LLC and released in 2018. LCS Zoom is a medium-early maturing, hollow-stemmed, short, awnless wheat with white chaff. LCS Zoom has above average yield, below average test weight, and average protein, with below 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

MT1435 – hard red winter wheat developed by the Montana Agricultural Experiment Station and licensed to both AgWest Seeds, Ephraim, UT and Sioux Nation Ag, Fort Pierre, SD. MTF1435 was approved in 2018 and intended for release outside of Montana. Like Ray, MTF1435 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, MTF1435 has similar forage yield and forage quality, but superior seed yield. Compared to conventional bread wheats; MTF1435 has below average yield, below average test weight, and average protein. MTF1435 is resistant to stripe rust and susceptible to stem rust. MTF1435 has low PPO and above average milling and average baking characteristics. PVP, Title V will be applied for. MTF1435 will not be in the Montana Intrastate Winter Wheat Test for 2019.

SY Legend CL2 – hard red winter wheat developed by Syngenta Participations AG and released in 2018. SY Legend CL2 is a medium-early maturing, hollow-stemmed, short

Winter wheat variety performance

CONTINUED FROM PAGE C46

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), hollowstemmed, 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 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 developed by the Montana Agricultural Experiment Station for exclusive license to a private company (to be determined) with

CONTINUED ON PAGE C48

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1999 Ford F550 4x4, crew cab, utility, V10 automatic.\$10,000 1999 Ford F450 4x4, snowplow, 7.3 automatic, 11-ft. utility bed..

1997 Volvo water truck, 3600 gallon, M11 automatic, 2 lift axles

1994 Ford F600 service truck, diesel, 5+2 speed, 6200# IMT

crane, compressor, hydraulic outriggers......\$12,500 1992 Ford F800 service truck, diesel, 8 speed, 14.7-ft. box,

7500# IMT crane, hydraulic compressor, ZR8 225 amp welder.

1989 International 41-ft. bucket truck, diesel, automatic.\$10,000

1985 Ford F700 4x4 service truck, IMT 5000 lb. crane, under-

1985 Ford F600 service truck, diesel, 5/2 speed, 8000 lb Auto

1986 Ford F800 National 228 37-ft. crane 14-ft. dump bed**\$10,000**

1999 Ford 550 diesel, automatic, flatbed with lift gate \$9000

1996 Ford F350, V8, automatic, 13-ft. flatbed, 5000 lb crane, out-

1989 Ford F450 utility truck, 11-ft. bed, 460 hp, automatic \$2500

1981 International S1800 4x4 flatbed, 14,000 lb knuckle boom

1995 International 4900 60-ft. bucket truck, DT466, 8LL transmis-

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box, IRT030 compressor, outriggers, PTO, set up for crane.

1999 Ford F550 4x4 flatbed, V10, automatic

hood air compressor, outriggers.

1981 International 4x4 dump truck, low miles.

Crane, compressor...

sion, 4 outriggers...



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.\$10,000

.\$15,000

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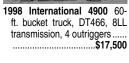
. \$15.000



1993 International 4800 4x4 bucket truck, DT466, speed, 61-ft. reach.....\$20,000



1992 Ford F700 diesel. 8 speed, 13.5-ft. flatbed, 5000 lb crane, outriggers. \$10,000



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DT466 engine, 10 12.5-ft. cab-to-axle..\$10,000

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ing forklift, 8000 lbs, 42-ft. lift,

Cummins engine\$32,500

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1995 International 4900 466, 5 spd, 18-ft. flatbed dump 1988 International 1800 2-ton diesel 4x4 flatbed. 12-ft. flatbed, 3200 lb. IMT crane, air compressor. .\$5000 1999 Haulin 31-ft. flatbed (expands to 34-ft.), telescopic hitch \$10,000 and air brakes. Good for round bales Auto Crane 3200 lb. service crane\$5000 Pesci 6000 KG knuckle boom. Maintainer service crane, 6000 lb. 12-ton 22-ft. tilt bed trailer..... \$6500 (11) 20-ton 24-ft. tilt bed trailers.....\$7500 - \$12,500 16-ft, flatbed dump with hoist .\$3500 1-ton utility beds, starting at 2 ton dump boxes, each .. Ditch Witch 350SX cable plow..... 2013 Terex light plant Miller 350 amp diesel welder\$4500 Buckets for skid steer loaders..... ... Call Forklift forks..... . Call 16" to 36" augers. Versatile 35-ft. bucket attachment..... (4) General 1200x20 unused highway tires. .\$800 (4) Ag-Chem Goodyear tires and wheels 14.9R46. (4) Goodyear 1200x20 unused traction tires......

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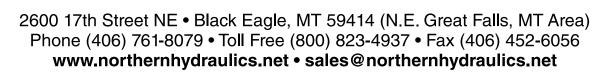
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<u>Trader's Dispatch, April 2019 — Page C48</u>

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Winter wheat variety performance summary

CONTINUED FROM PAGE C47

Agricultural	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Ang	Total
Research Center	2017	2017	2017	2017	2018	2018	2018	2018	2018	2018	2018	2018	Average
Vestern Triangle,	1.59	1.21	0.40	0.48	0.28	0.65	0.94	1.05	1.80	2.73	0.34	1.04	11.79
Conrad				1987-2	018 Avera	1987-2018 Average = 11.72	2 (Temp =	: 43.7)					
	55.1	42.0	28.3	19.5	21.9	8.7	23.1	35.4	6.95	58.9	66.5	63.0	39.9
lorthern,	1.08	0.95	99.0	1.90	0.20	2.59	1.25	0.24	1.10	2.50	0.18	0.50	13.15
Havre				1916-2	018 Avera	1916-2018 Average = 12.05	5 (Temp =	: 42.8)					
	57.5	43.0	28.5	21.2	14.6	1.9	20.8	36.0	58.9	63.3	69.5	67.2	40.2
lorthwestern,	66.0	1.28	1.69	2.98	1.17	2.14	0.42	1.54	1.78	2.63	0:30	0.22	17.14
Kalispell				1980-2	018 Avera	1980-2018 Average = 20.01	1 (Temp =	: 43.3)					
	54.0	41.4	35.4	28.9	33.8	26.6		43.6	58.4	29.7	66.3	65.5	45.9
entral,	2.62	09.0	1.16	0.93	0.27	1.21	1.46	1.21	3.84	4.46	1.12	0.79	19.67
Moccasin				1910-2	018 Avera	1910-2018 Average = 15.34	4 (Temp =	: 42.9)					
	55.9	43.1	32.5	23.1	25.2	13.0	31.8	37.2	55.0	58.5	65.5	9.59	42.2
outhern,	2.57	0.37	1.17	1.14	0.58	1.82	06.0	2.70	3.81	3.77	0.87	2.00	21.70
Huntley				1911-2	1911-2016 Average	age = 13.32	2 (Temp =	: 45.5)					
	58.6	47.0	33.6	23.4	19.6	6.6	29.3	40.7	59.1	63.4	70.2	8.79	43.6
lortheastern,	1.35	1.05	0.19	0.37	0.24	0.32	1.40	0.94	3.42	2.26	2.19	0.61	14.34
Sidney				1949-2	018 Avera	1949-2018 Average = 13.74	4 (Temp =	: 43.3)					
•	53.8	45.2	28.9	17.9	13.2	4.0	26.0	37.5	60.5	66.4	69.4	2.99	40.8
Villiston (WREC),	3.12	0.48	0.22	0.45	0.22	0.24	0.84	1.08	1.15	3.62	5.59	0.82	17.83
N. Dakota				1990-2	018 Avera	1990-2018 Average = 14.78	8 (Temp =	: 44.4)					
	59.5	48.0	30.0	18.3	15.2	6.5	26.2	36.9	61.9	9.99	70.2	9.69	42.4
lorthern Seeds,	1.14	0.43	0.48	1.30	0.31	1.39	0.34	0.89	1.94	3.04	0.11	0.87	12.24
Carter/Ft. Benton				2008-2	018 Avera	2008-2018 Average = 13.46 (Temp	6 (Temp =	: 45.0)					
	57.8	45.4	33.8	23.0	20.9	8.2	27.5	39.6	9.69	62.8	70.1	67.8	43.0
ost Farm,	2.65	1.01	1.69	1.69	1.25	0.57	1.16	3.26	2.92	3.61	0.20	1.26	21.27
Bozeman				1958-2	018 Avera	1958-2018 Average = 15.91	1 (Temp =	: 43.7)					
	55.6	44.2	31.7	20.5	26.7	19.8	34.0	41.7	55.9	59.4	66.5	64.5	43.4

a full partnership agreement with BASF Chemical Company. MTCL1601 will be available to certified seed growers in fall 2019. MTCL1601 is a medium maturing, semisolid-stemmed, medium height wheat with white chaff. MTCL1601 has average yield, above average test weight, and av erage 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 whiteglumed, 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 #201200407). Bearpaw will not be in the Montana Intrastate Winter Wheat Test for 2019.

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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 aver age 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.

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).

CONTINUED ON PAGE C49

Table 14. Precipitation (top, in inches) and Average Monthly Temperature (bottom, °F) for Crop Year 2017-2018

Winter wheat variety performance summary in Montana

CONTINUED FROM PAGE C48

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 grain yield of Yellowstone - but with significantly earlier heading, shorter plant height, and significantly higher test weight and protein. FourOsix is resistant to stripe rust and this resistance is either similar or significantly higher than that of Yellowstone. MFourOsix 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 whiteglumed, 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 moderately susceptible to stripe rust. Keldin is a high PPO variety with average mill and below average bake characteristics. PVP, Title V has been issued (Certificate #201300462).

CONTINUED ON PAGE C50

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2001 International 9900i C15 6NZ Series Cat, 500 hp, 18 speed, 14,600 lb. fronts, 46,000 lb. rears w/3-way lockers, Hendrickson Haul-Maax suspension, wet kit, clean....\$31,500



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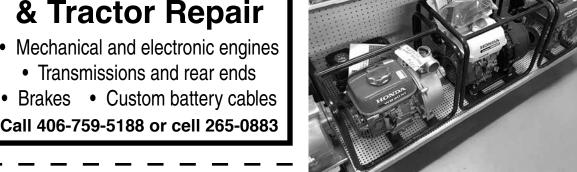
2003 Kenworth W900 dump truck Cummins ISM 500 hp, Eaton 10 speed, Reyco suspension, 14-ft. box 1992 Peterbilt 378 425 hp, 3406B with high lift gate......\$35,500



1998 Ford dump truck, Cat 3126, Eaton 9 speed, 14,400 lb. front, 43,000 lb. rear axle, 10-ft. box, front & rear auxiliary hydraulics, set up for snow plow capability, 104,000 miles, ex-county truck, 85% rubber...

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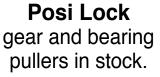


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1996 International Flatbed



2005 Sterling L8500 Tractor 250 hp, Cat C7, 7 speed, 85%

250 np, Cat C7, 7 speed, 85% 11R24.5's, AC, AR, 240,000 miles, 32K GVW. Runs and drives great......\$9000



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speed, 26,000 gvw, 129,000 miles, 75% 10R22.5's, PB, PS, double frame......**\$9500**



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1994 Ford F700

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Winter wheat summary in Montana

CONTINUED FROM PAGE C49

Langin – hard red winter wheat developed by Colorado and released in 2016. Langin is an early maturing, short statured wheat, with white chaff. Winter-hardiness is average. Langin has average yield and test weight and below average protein. Langin is moderately susceptible to stripe rust. Langin is a high PPO variety with below average mill and average bake characteristics. PVP, Title V is pending (Certificate #201700298). Langin will not be in the Montana Intrastate Winter Wheat Test for 2019.

LCS Chrome – hard red winter wheat developed by Limagrain LLC and released in 2016. LCS Chrome is an early to medium maturing, medium statured wheat, with red chaff. Winterhardiness is average. LCS Chrome has above average yield and test weight and average protein. LCS Chrome is resistant to stripe rust. Mill and bake characteristics, under Montana conditions, have not been determined. PVP, Title V is pending (Certificate #201600404).

LCS Jet – hard red winter wheat developed by Limagrain LLC and released in 2015. LCS Jet is a medium maturing, short statured wheat, with white chaff. Winter-hardiness is below average. LCS Jet has above average yield (#1 in 2017 across 7 locations tested) and below average test weight and average protein. LCS Jet is resistant to stripe rust. LCS Jet is a high PPO variety with above average mill and below average bake characteristics. PVP, Title V has been issued (Certificate #201600094).

Loma – hard red winter wheat developed by the Montana Agricultural Experiment Station and available to growers in fall 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 is pending (Certificate #201700021).

Long Branch – hard red winter wheat developed by Limagrain LLC, licensed by Dyna Gro Wheat, and released in 2015. 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. Mill and 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 seed growers in fall 2018. 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 to above average yield, below average test weight, and average protein. Ray is resistant to stripe rustand 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 winter wheat varieties.

		Α	gronomi	c Charar	acters	5		Cer	real Qua	ality	Disc	ease R	eactio	ns ^{8/}
		Chaff	Winter	Straw	Stem	Clear-	Coleoptile				Dwarf	Stripe	Stem	Leaf
Variety	Maturity ^{1/}	Color	Survival ^{2/}	Strength ^{3/}	solid ^{4/}	field	length ^{5/}	Milling ^{6/}	Baking ^{6/}	PPO ^{7/}	Smut	Rust	Rust	Rust
AAC Wildfire	L	Red	4	-		N					-	MR		
Bearpaw	l m	White	2	М	21	N	М	4	2	н	s	S	R	s
Brawl CL Plus	E	White	2	S		Y	L	3	3	н	s	s	-:-	-
Byrd CL Plus	ΙĒ	White	3			Ý	-	3	3	н]	s	-	_
Decade	M	White	4	S		N	М	3	4	Н	S	S	R	MS
FourOsix	M	White	3	S		N	M	3	4	M	s	R	MS	-
Incline AX	м	White	2			N ^{10/}	-	-	-	-	-	s		
Judee	M	White	2	М	20	N	L	3	4	н	s	Ř	s	s
Keldin	M	White	2	S		N	S	3	2	Н	S	MS	-	-
Langin	Ë	White	3			N	M	2	3	H	s	MS		_
LCS Chrome	M-E	Red	3			N	M-L	3	3	М	s	R	-	
LCS Jet	M	White	2	-		N	L	4	2	Н	s	R		-
LCS Link	E	White	3	-		N	-	-	-	-	-	MR	-	-
LCS Rocket	м	White	0	-		N	-	-	-	-	-	R		
LCS Zoom	M-E	White	1	-		N	-	-	-	-	-	R	-	-
Loma	M-L	White	4	M	20	N	S	4	4	ML	s	R	R	-
Long Branch	E	White	3	-		N	М	3	3	Н	S	R	-	-
Northern	M	White	3	S		N	S	3	3	L	s	R	R	_
MT1564 ^{9/}	E	White	3	s		N	s	3	3	М	MR	R	MR	
MTCS16019/	М	White	3	s	19	Υ		3	3	н	_	R	MS	_
MTS1588 ^{9/}	M	White	2	S	23	N	S	4	4	ML	S	R	MS	S
MTF1435	l ":	White	3	MS		N	Ľ	4	3	L	s	R	S	
Oahe	Ē	White	3			N		-	-	-	-	R		-
Ray	٦	White	2	MS		N	М	3	3	L	s	R	s	_
SY 517 CL2	E	White	2	-		Υ	M-L	-	-	_	S	MS		-
SY Clearsone 2CL	M	White	3	s		Y	S	3	3	М	R	R	MR	-
SY Legend CL2	M-E	Red	2	-		Υ	-	-	-	-	-	MR	-	_
SY Monument	M	White	3	s		Ň	М	3	2	ML	s	R		-
SY Sunrise	E	White	2	S		N	M	3	2	Н	S	R	-	-
SY Wolf	М	White	3	S		N	M	3	2	M	s	R	R	_
Warhorse	М	White	4	MS	22	N	М	3	3	Н	s	R	R	MR
WB4483	L	White	3	s	20	N	s	3	3	Н	s	MS		-
WB4575	M	White	3	S		N	M	3	4	M	S	S	-	-
WB4614	M	White	4	S		N	M	3	3	Н	S	R	-	-
WB4623CLP	M-L	White	1	М		Υ	М	3	4	ML	S	R	-	-
Yellowstone	М	White	4	s		N	s	3	4	M	MS	R	S	MS

^{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 5/ L = long

 3/ W = Weak
 5/ L = long

 MW = Medium Weak
 M = medium

 M = Medium
 S = short

 MS = Medium Strong
 - = no info.

4/ scored 5-25, 25 = most solid

evaluated

4/ scored 5-25, 25 = most solid Combined 2013-2017 Bozeman, Carter, Conrad, Havre, Gildford, Loma, and Moccasin data; varieties with no number were not 9/ = approved for release in 2019, name pending

6/ 5 = Superior 7/ PPO = Polyphenol Oxidase
4 (low is better for noodles)
3 L = low
2 M = medium
1 = Inferior H = high

10/ Coaxium herbicide

resistance

8/ R = Resistant

MR = Moderately Resistant
M = Moderate

MS = Moderately Susceptible
S = Susceptible

VS = Very Susceptible
- = no information

- = no informa
CONTINUED ON PAGE C51

Winter wheat variety summary in Montana

CONTINUED FROM PAGE C50

SY 517 CL2 – a 2-gene CLEARFIELD hard red winter wheat developed by Syngenta and released in 2017. SY 517 CL2 is an early maturing, short statured wheat, with white chaff. Winterhardiness is below average. SY 517 CL2 has below average yield, above average test weight, and average protein. SY 517 CL2 is moderately susceptible to stripe rust. SY 517 CL2 is a medium PPO variety with aaverage 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 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 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 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 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 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). SY Sunrise will not be in the Montana Intrastate Winter Wheat Test for 2019

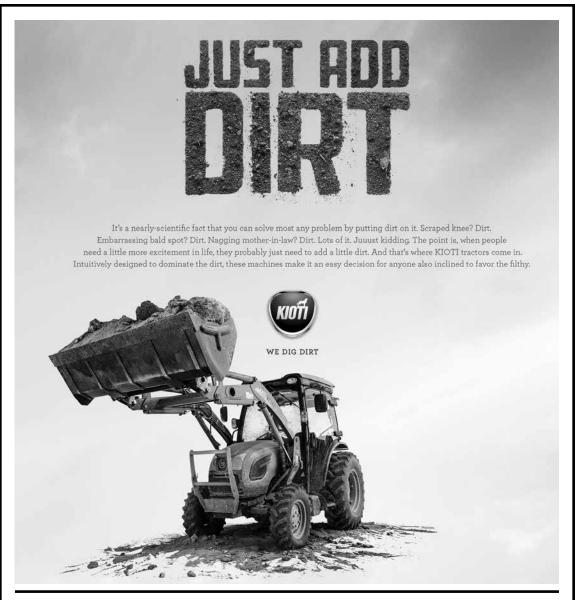
SY Wolf – hard red winter wheat developed by Syngenta (AgriPro) Seeds in 2010. SY-Wolf is a medium maturing, short statured wheat with white glumes. SY-Wolf has above average yield and test weight and average protein. Winter-hardiness is average. SY-Wolf is moderately susceptible to moderately resistant (MS/MR) 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 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).

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. 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 not 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 statured wheat, with white chaff. WB4575 has below average yield and above average test weight and protein. Avery 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 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). WB4614 will not be in the Montana Intrastate Winter Wheat Test for 2019.



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