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Spring Wheat Variety Performance Summary in Montana

By H.Y. Heo, Research Associate, MSU; N. Blake, Research Associate, MSU; R.N. Stougaard, Superintendent and Professor of Weed Science, NARC, Kalispell; K.D. Kephart, Superintendent and Professor of Agronomy, SARC, Huntley; V. Smith, Research Associate, SARC; J. Eberly, Assistant Professor of Agronomy and Soil Microbiology, CARC, Moccasin; E. Magnuson, Research Associate, CARC; P. Carr, Superintendent and Associate Professor of Cropping System, CARC, Moccasin; J. Miller, Research Scientist, WTAC, Conrad; P.F. Lamb, Research Scientist, NARC, Havre; C. Chen, Superintendent and Professor, EARC, Sidney; D. Nash, Cereal Quality Laboratory, MSU; and L.E. Talbert, Professor, Spring Wheat Breeding, MSU

INTRODUCTION

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

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

VARIETY TESTING PROCEDURESLocations

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

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

Agronomic data collected throughout the growing season includes heading date, plant height, lodging, disease and insect reactions. Experimental plots are trimmed, measured and harvested with small plot combines. The grain is weighed for yield and test weight. One trait important to wheat growers is resistance to the wheat stem sawfly. The major mode of resistance is a solid versus hollow stemmed variety. To evaluate this trait we cut several stems of each variety and score them on a scale of 1=hollow, 2=2/5 solid, 3=3/5 solid, 4=4/5 solid and 5=solid. The cuts are made in the center of each internode, so there are 5 scores per stem. The five scores are added up to get a total number ranging from 5=very hollow up to 25=very solid. Entries are submitted to the Cereal Quality Lab at MSU, Bozeman for protein, milling, baking and Asian noodle quality evaluation as needed. Data is analyzed and summarized for each location and overall comparisons are made to determine which varieties and/or experimental lines look promising for Montana producers. When sufficient data is collected and analyzed, promising experimental lines are submitted to the MAES wheat variety release committee.

ADDITIONAL DESCRIPTIVE INFORMATION ON SPRING WHEAT VARIETIES

Hard Red Spring Wheats

BRENNAN – Brennan was developed by Syngenta Seeds, Inc. and released to AgriPro Associates in 2009. Brennan was derived from the cross Reeder//China Scab #140/N90- 0690. It is a hollow stemmed, semidwarf, hard red spring variety that has shown good adaptation across the northern plains including several areas in Montana. It is resistant to stem and leaf rust and has good tolerance to leaf spotting diseases. Its scab rating is intermediate which would make it a good choice for use under irrigation. Brennan has acceptable overall breadmaking quality. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

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

CONAN – Developed and released by WestBred, LLC. in 1999. Conan was selected from the cross WestBred Rambo/ WestBred 906R. Conan is a sawfly tolerant, white chaffed, semi dwarf, hard red spring wheat. The spike is mid-dense, strap shaped and awned. The seeds are elliptical with rounded cheeks. The brush is long and collared. Conan is similar to WestBred

Rambo in yield, but is 2 to 4 days earlier, .5 to .9 percentage points higher in protein, and has good milling and baking qualities. Conan is resistant to the prevalent races of stripe rust and leaf rust, and has shown good tolerance to Septoria and Tan spot. This variety is protected under the Plant Variety Protection Act.

CORBIN – Developed and released by WestBred, LLC in 2006. Corbin is a hard red spring wheat derived from the cross Border/Conan. This line is best adapted to the wheat stem sawfly areas of Montana. Corbin is a one gene semi-dwarf with moderately strong straw. Disease/sawfly ratings for Corbin show it to be moderately resistant to stripe rust and similar to Conan for sawfly tolerance. Milling and baking quality is acceptable for the market class being grown in Montana, as determined by the MSU Quality Lab. This variety is protected under the Plant Variety Protection Act.

DUCLAIR – Developed and released by the Montana Agricultural Experiment Station in 2011. Duclair was derived from a cross of Choteau//ND695/MT9433. Duclair is an awned semi dwarf hard red spring wheat heading one day earlier than and growing ~ one inch taller than Choteau. Duclair generally has more solid stems than Fortuna but slightly less than Choteau. Duclair is resistant to the prevalent races of stem rust and has moderately good resistance to stripe rust in Montana. Duclair exhibits acceptable milling and baking traits. This variety is protected under the

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

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

FORTUNA – Developed from the cross Rescue/Chinook/3/(Frontana//Kenya58/Newthatch made at North Dakota Agricultural Experiment Station with the Crops Research Division of USDA cooperating. A joint North Dakota-Montana release was made in 1966. Fortuna is beardless with white chaff and straw. It is a solid-stemmed variety, resistant to the wheat stem sawfly. Fortuna is susceptible to Septoria and black chaff fungus. It has acceptable baking properties.

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

KELBY – Kelby was developed by AgriPro and released to AgriPro Associates in 2006. Kelby was derived from the cross N97-00117/3/n92-0098//Sumai 3/Dalen. It is a hollow stemmed, semi dwarf, hard red spring wheat. Kelby is an early heading spring wheat and maintains a good test weight across locations. Kelby has the Asian background (Sumai 3) for fusarium head blight resistance giving it an intermediate scab tolerance. It is resistant to stem and leaf rust and shows good tolerance to leaf spotting diseases. It shows moderate susceptibility to stripe rust. Kelby is susceptible to damage by the wheat stem sawfly. Grain protein of Kelby is good and the milling and baking quality is acceptable. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

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

McNEAL – Developed from the cross RS6880/Glenman made by the Montana Agricultural Experiment Station. It was released in March 1995. McNeal is a semi dwarf, hard red spring wheat with red chaff and tan straw. The spike is awned and mid-dense. The glumes are reddish brown with some white on the outer edges of the lemma and palea. Kernels are red, ovate, medium length with a short brush. The cheeks are slightly rounded with a medium crease. Under Montana growing conditions McNeal is moderately resistant to lodging. It is moderately resistant to prevalent races of stem rust and wheat streak mosaic virus. McNeal is moderately susceptible to leaf rust and stripe rust. It is susceptible to Russian wheat aphid and the wheat stem sawfly. Under some climatic conditions one white chaffed plant per 2,000 plants may appear in the field. McNeal's milling and baking **CONTINUED ON PAGE C46**

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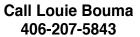
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Spring Wheat Variety Performance Summary in Montana

CONTINUED FROM PAGE C45

qualities are acceptable by industry.

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

NS PRESSER CLP - NS Presser CLP hard red spring wheat (Triticum aestivum L.) was developed by the Montana Agricultural Experiment Station and released in 2016 to the commercial partner Northern Seed LLC. NS Presser CLP is a two-gene Clearfield wheat intended for use with the selective imidazolinone herbicide imazamox (Beyond, BASF Corp.). NS Presser CLP was developed by a single backcross of alleles for resistance to the imidazolinone herbicide class into the recurrent parent Vida. Yield trials at sites in Montana showed that NS Presser CLP has yield potential under dryland production similar to Vida. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

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

REEDER – Developed by the North Dakota Agricultural Experiment Station from the cross IAS#4/H567.71//Stoa/3/ND674. Reeder was released in 1999. Reeder is an awned, semi dwarf hard red spring wheat. Reeder yields well especially in northeastern Montana and western North Dakota. Reeder has resistance to the upper Midwest races of stem and leaf rust. Milling and baking qualities are acceptable. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

SY TYRA – SY Tyra is a hard red spring wheat initially developed at Montana State University for release by Syngenta Seeds, Inc. It originated from a marker assisted backcross project with the final cross as Choteau/4*Norpro. It has a semi-solid stem which confers some tolerance to the wheat stem sawfly. Yield performance has been very good statewide. Test weight has been very high averaging one pound heavier than Choteau. It has medium maturity similar to Reeder. It is a short semidwarf with very good straw strength. Overall milling and baking characteristics are acceptable. This variety is protected under the Plant Variety <u>Protection Act and can only be sold or</u> advertised by variety name as a class of certified seed.

SY SOREN - SY Soren is a hollow stemmed, hard red spring wheat developed by Syngenta Seeds, Inc. and released to AgriPro Associates in 2011. PVP, Title V certificate was issued in 2012. SY Soren was derived from the cross Norpro/Kelby. It has medium maturity and very good test weight. It is a short semi-dwarf, similar to Brennan. Straw strength is very good, between Kelby and Kuntz. It is resistant to stem rust and moderately resistant to leaf rust. It has very good tolerance to Fusarium head blight. Overall quality of SY Soren is acceptable. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

VIDA - Vida was derived from the cross of Scholar/Reeder made in 1998 by the Montana Agricultural Experiment Station. Vida was released in 2005. Vida is a high yielding hard red spring with moderate resistance to leaf and stripe rust but is moderately susceptible to stem rust. Vida is a semi dwarf wheat with white glumes and awns. Kernels are red, ovate with rounded cheeks and a mid-deep crease. Vida has good milling and baking characteristics. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

VOLT – Volt is a hard red spring wheat developed by Dr. Peter Franck with the plant breeding company, PZO Pflanzenzucht Oberlimpurg, in Germany and has been thoroughly tested by WestBred, LLC and released in 2008. Volt is a high yielding semi dwarf wheat under irrigated conditions with good tolerance to stripe rust and fusarium head blight. Volt heads four days later than Hank. Volt is a hollow stemmed wheat susceptible to wheat stem sawfly damage. Volt has fair milling and baking quality. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

WB GUNNISON – A hard red spring wheat developed by WestBred from the cross Conan/Agawam and released in 2011. WB-Gunnison is being released as a high quality hard red spring wheat that is intended to replace Conan and Corbin acres. Milling and baking quality data indicate that WB-Gunnison has acceptable quality. Disease/sawfly ratings for WB Gunnison show it to be MR to stripe rust. WB Gunnison is a hollow stemmed variety, but has high yields under wheat stem sawfly pressure due to relative non-preference in small plot nursery trials. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

WB9879CLP – WB9879CLP was derived from the cross of Choteau*3//Choteau/IMI8134 made in 2004 to be used as a Clearfield wheat. WB9879CLP is an awned semi dwarf hard red spring wheat heading one and a half days later than Choteau while plant height is 30 inches the same as Choteau. WB9879CLP has solid stems similar to Choteau averaging 20-23 over two years. WB9879CLP exhibits acceptable milling and baking quality traits similar to Choteau. WB9879CLP is currently licensed exclusively to WestBred-Monsanto with PVP title V protection.

HRS 3504 is a hard red spring wheat developed for CROPLAN by WinField United from a cross of Brogan / Howard. US Patent certificate was issued in 2015. HRS 3504 is being released as having medium short height and maturity, and average protein and

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Spring Wheat Variety Performance Summary in Montana

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test weight. Its straw strength is excellent and it's resistant to stripe and leaf rust. It is CROPLAN's best for bacterial leaf streak and pre-sprouting tolerance. HRS 3504 has average grain protein and acceptable milling and baking quality. HRS 3504 is currently licensed exclusively to CROPLAN by WinField United and protected under the US patent law. Seed can only be used as quality assured grown by variety name. HRS 3616 is a hard red spring wheat developed for CROPLAN by WinField United from a cross of Kuntz / Norpro. PVP certificate was issued in 2016. HRS 3616 is being released as having high protein, medium height and medium early maturity, and very good test weight. Its straw strength is very good and it is resistant to stem and leaf rust. HRS 3616 has above average grain protein and acceptable milling and baking quality. It has shown to have very good yields in western geographies. HRS 3616 is currently licensed exclusively to CROPLAN by WinField United and protected under the Plant Variety Protection Act. Seed can only be used as quality assured grown by variety name.

WB9590 - WB9590 hard red spring wheat was released by WestBred, a division of Bayer Crop Science, in 2016. WB9590 is a broadly adapted variety with outstanding performance on both dryland and irrigated acres. It has improved grain yield potential when compared to WB Gunnison with similar grain protein. A short plant height contributes to its superb standability. Very good Yellow (Stripe) Rust resistance and Fusarium Head Blight tolerance contributes to a good disease package. WB9590 is hollow-stemmed and susceptible to damage caused by the wheat stem sawfly. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as Certified Seed Only WB9719 - WB9719 hard red spring wheat was released by WestBred, a division of Bayer Crop Science, in 2016. WB9719 is a dryland adapted, medium-late maturing variety. It has improved grain yield potential when compared to WB Gunnison with similar grain protein. It has a plant height similar to WB9879CLP with superb standability. Excellent Yellow (Stripe) Rust and Bacterial Leaf Streak resistance **CONTINUED ON PAGE C48**

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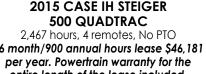
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Spring Wheat Variety Performance Summary in Montana

CONTINUED FROM PAGE C47

contributes to a good disease package. WB9719 is hollow-stemmed and susceptible to damage caused by the wheat stem sawfly. This variety is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as Certified Seed Only.

PLANT VARIETY PROTECTION (PVP)

The developer of a new distinct variety may obtain protection (essentially a patent) for that variety if he/she chooses to do so, provided the variety meets the requirements of the Plant Variety Protection Act of 1970. This Act permits the owner or developer of a variety to prohibit others from selling, sexually multiplying, using for propagation for seed, or using to produce a hybrid, seed of his/her variety.

Two options, for plant variety protection, are available to the developer of the variety. Under the first option, the developer of the variety or his/her agent may sell either certified or uncertified seed of the variety. If the developer of the variety has reason to believe that anyone is infringing on his/her rights, he/she may resort to civil action. The other option ("certification option") for protecting a variety utilizes the provision of

Title V of the Federal Seed Act. A variety protected in this manner may be sold by variety name only as a class of certified seed. It is the responsibility of the seller to inform the buyer if the variety is protected. Each container of seed sold should be labeled with a tag indicating the type of protection which the owner has. Under the first option, the label will state: "Unauthorized Propagation Prohibited - U.S. Protected Variety." If the owner of the variety has chosen the other option for variety protection, the label will state, "Unauthorized Propagation Prohibited - To be Sold by Variety Name Only as a Class of Certified Seed - U.S. Protected Variety."

PLEASE NOTE: Varieties protected under the PVP act, as amended in 1994, can no longer can be sold without permission of the variety owner (the farmer exemption has been excluded)'

A complete listing of all protected varieties is available in the "Official Journal of the Plant Variety Protection Office" which may be obtained upon request from:

Plant Variety Protection Office Warehouse Division, AMS U.S. Dept. of Agriculture National Agricultural Library Beltsville, MD 20705 Phone: (301) 504-5518.

2015-2018 ADVANCED SPRING WHEAT NURSERY, KALISPELL : District 1

		YIE	LD				ST			PRO	TEIN		PLANT	HEADING
VARIETY						WEI							HEIGHT	DATE
		(BU					(BU)			(%		2212	(IN)	(JULIAN)
	2018 ¹⁾	2017- 2018	2016- 2018	2015- 2018	2018 ¹⁾	2017- 2018	2016- 2018	2015- 2018	2018 ¹⁾	2017- 2018	2016- 2018	2015- 2018	2017-	2018 ¹⁾
SY INGMAR	-	55.8	66.0	83.7	-	60.2	<u>61.0</u>	<u>61.7</u>	-	15.2	15.8	15.8	23.8	172.7
SY Valda	-	49.6	73.8	88.8	-	58.4	60.2	61.2	-	14.2	14.2	14.2	23.0	172.2
WB GUNNISON	-	54.1	75.4	87.7	-	59.0	60.1	61.2	-	13.8	13.9	14.3	22.3	174.2
CORBIN	-	56.1	68.5	83.9	-	59.6	60.8	61.4	-	14.8	15.1	15.0	24.2	171.7
THATCHER	-	48.8	62.2	72.8	-	57.3	59.1	59.8	-	15.3	15.2	15.5	32.9	178.3
FORTUNA	-	52.5	71.0	79.1	-	59.6	60.5	60.8	-	14.6	15.1	15.4	30.7	174.5
LCS PRO	-	54.4	77.4	93.3	-	57.4	60.0	60.8	-	14.9	15.0	15.2	26.7	175.7
REEDER	-	54.0	75.3	88.3	-	57.9	59.8	60.8	-	15.5	15.4	15.2	23.7	179.0
MCNEAL	-	55.5	71.0	80.6	-	57.0	58.7	59.7	-	15.0	15.5	15.3	24.7	177.9
CHOTEAU	-	51.0	64.5	80.2	-	58.4	59.5	60.3	-	15.0	15.1	15.2	22.2	174.6
VIDA	-	61.0	78.6	<u>93.6</u>	-	58.0	59.5	60.2	-	14.4	14.8	15.0	24.5	177.2
DUCLAIR	-	55.9	73.3	89.5	-	57.9	59.2	59.7	-	13.9	14.4	14.9	23.2	<u>171.3</u>
EGAN	-	52.7	76.8	89.8	-	55.9	57.7	58.9	-	<u>16.4</u>	<u>16.1</u>	<u>16.4</u>	23.8	177.3
LANNING	-	55.4	67.0	80.9	-	56.2	58.4	59.4	-	15.4	15.3	15.8	23.0	176.0
WB 9879 CLP	-	53.3	63.9	80.3	-	59.0	59.4	60.1	-	15.1	15.2	15.4	24.0	174.3
SY Rockford ²⁾	-	58.3	64.4		-	58.5	59.0		-	14.8	14.5		23.6	176.0
NS PRESSER CLP2)	-	<u>61.4</u>	77.5		-	57.2	59.1		-	14.8	14.7		24.4	178.5
HRS 3616 ²⁾	-	54.0	64.9	-	-	59.3	60.1		-	15.1	15.5		23.3	172.9
HRS 3504 ²⁾	-	58.6	<u>83.1</u>		-	57.0	59.2		-	13.9	13.9		22.5	176.1
ALUM ²⁾	-	52.1	65.7		-	58.8	60.1		-	14.9	14.3		24.9	175.3
LCS REBEL3)	-	60.3			-	60.1			-	14.7			25.5	173.0
WB 9590 ³⁾	-	57.9			-	58.4			-	15.2			22.6	171.9
WB 9719 ³⁾	-	55.7			-	<u>61.0</u>			-	14.6			22.1	176.4

¹⁾ No planting in 2018, 2) two year's data ('16-'17), 3) one year's data ('17)

2015-2018 ADVANCED SPRING WHEAT NURSERY, BOZEMAN : District 2

VARIETY			LD			WEI					TEIN		PLA	HT DATE	SOLIDNESS (5-25)
	2018	(BU 2017- 2018	2016- 2018	2015- 2018	2018	2017- 2018	/BU) 2016- 2018	2015- 2018	2018	2017- 2018	2016- 2018	2015- 2018	(IN	(JULIAN) 2017-20	18
SY INGMAR	95.4	78.5	68.8	60.4	62.4	60.8	60.1	60.0	15.3	15.5	15.6	15.5	30.	7 182.4	8.7
SY Valda	111.4	87.8	76.0	66.9	61.8	60.4	60.3	60.4	14.4	14.9	14.7	14.8	30.		7.1
WB GUNNISON	108.2	81.0	70.4	62.6	62.3	61.4	61.0	61.2	13.8	14.3	14.2	14.2	30.		10.2
CORBIN	96.7	77.1	68.9	61.2	62.5	61.5	61.6	61.6	14.9	15.1	14.8	14.8	32.		10.0
THATCHER	72.5	61.6	55.0	50.6	61.2	59.1	58.8	58.8	15.2	15.9	15.4	15.2	43.	187.3	8.3
FORTUNA	73.9	64.6	58.8	53.6	62.1	61.4	61.4	61.0	14.8	14.9	14.8	14.8	41.		15.1
LCS PRO	101.5	81.5	71.8	64.4	63.0	61.1	61.4	61.4	15.2	15.4	15.0	15.0	36.		7.0
REEDER	104.6	82.7	71.6	62.5	61.8	60.7	60.7	60.8	15.0	15.5	15.3	15,3	34.	185.5	6.1
MCNEAL	83.5	72.3	64.8	56.8	60.9	59.3	59.2	59.3	16.3	16.0	15.6	15.5	33.	185.9	7.0
CHOTEAU	99.9	78.1	68.7	60.7	62.0	60.3	60.3	60.3	15.1	15.3	15.3	15.4	31.	183.0	22.2
VIDA	117.4	92.3	81.8	71.4	61.1	60.4	60.5	60.5	14.0	14.5	14.4	14.6	32.	7 184.4	10.0
DUCLAIR	111.6	84.2	71.6	63.1	61.7	60.0	59.2	59.4	14.3	14.9	14.9	14.8	32.	5 181.2	19.5
EGAN	90.4	71.8	62.6	55.9	61.3	59.8	59.5	59.3	17.7	17.2	16.9	16.9	32.	185.2	6.9
LANNING	98.1	79.1	70.7	64.7	62.6	61.0	60.5	60.6	15.5	15.7	15.4	15.4	30.	183.0	5.6
WB 9879 CLP	97.5	78.0	66.8	59.3	61.7	60.8	60.5	60.3	14.7	15.2	15.2	15.4	31.	183.4	22.5
SY Rockford ¹⁾	104.1	85.0	73.2		61.3	60.2	59.5		13.9	14.5	14.8		32.	185.2	6.9
NS PRESSER CLP1)	104.7	85.5	75.9		60.2	59.1	59.3		14.8	15.3	14.9		33.	186.5	6.9
HRS 3616 ¹⁾	96.4	79.9	71.5		61.8	61.0	60.7		15.5	15.6	15.5		31.	7 182.2	6.9
HRS 3504 ¹⁾	110.5	84.8	73.0		60.7	59.7	59.8		14.1	14.4	14.3		30.	1 184.8	7.0
ALUM ¹⁾	107.6	83.1	69.7		62.8	61.5	61.1		14.7	15.1	15.0		33.	1 184.7	8.3
LCS REBEL ²⁾	103.6	84.5			62.7	62.0			14.5	14.9			35.	182.0	7.8
WB 9590 ²⁾	107.7	82.9			62.5	61.5			15.1	15.4			28.	<u>181.0</u>	7.8
WB 9719 ²⁾	115.7	88.9			65.0	63.8			14.0	14.5			30.	185.5	6.2

1) three year's data ('16-'18), 2) two year's data ('17-'18)

CONTINUED ON PAGE C52

#####

Until the tenth century, coffee was considered a food. Ethiopian tribesmen would mix the coffee berries with animal fat, roll them into balls, and eat them on their nomadic journeys!!

#####

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Pheasant - Chukar Lab

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1995 International 9400 semi tandem axle, 72" pro sleeper, loaded, 500 hp, N14, pre-emission and e-log, jake, Super 10 speed RV hauler bed and 5th wheel plate. Runs good, 50% tires, custom bed and bumper etc..

..\$13,000



Austin Western 99L roadgrader, 4WD, 4 wheel steer, 471 Detroit engine with torque convertor, standard transmission with high/low, all hydraulic, good tires, V chains, full cab with heat. Clean, runs good\$11,900

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Spring Wheat Variety Performance Summary in Montana

CONTINUED FROM PAGE C48

2015-2018 ADVANCED SPRING WHEAT NURSERY, HUNTLEY: District 3

		YIE	LD		TEST					PROTEIN					HEADING
VARIETY							GHT						l	HEIGHT	DATE
			/AC)	- 1			(BU)	1 4			6)	1 1		(IN)	(JULIAN)
	2018	2017- 2018	2016- 2018	2015 ¹⁾ - 2018	2018	2017- 2018	2016- 2018	2015 ¹⁾ - 2018	2018	2017- 2018	2016- 2018	2015 ¹⁾ - 2018		2017	7-2018
SY INGMAR	68.0	73.3	78.1	78.1	62.2	61.5	62.0	62.0	15.6	15.3	14.4	14.4		34.9	165.3
SY Valda	76.4	75.2	80.8	80.8	62.0	60.8	61.3	61.3	14.9	14.7	13.9	13.9		35.0	165.7
WB GUNNISON	63.8	67.1	73.7	73.7	61.9	60.3	61.1	61.1	14.4	14.0	13.5	13.5		35.6	164.9
CORBIN	68.6	73.8	78.4	78.4	62.3	61.6	62.2	62.2	15.4	14.7	13.5	13.5		37.4	163.2
THATCHER	61.4	62.2	59.4	59.4	60.3	59.5	60.4	60.4	15.7	15.8	15.1	15.1		50.8	168.9
FORTUNA	68.1	71.5	67.7	67.7	62.3	62.2	62.3	62.3	14.9	14.8	14.5	14.5		47.4	165.7
LCS PRO	69.6	75.9	75.7	75.7	62.4	61.4	61.7	61.7	15.2	14.7	14.0	14.0		41.8	164.9
REEDER	68.2	74.1	78.5	78.5	59.9	60.3	61.3	61.3	15.6	15.5	14.5	14.5		40.4	165.7
MCNEAL	76.4	71.0	75.4	75.4	60.5	59.2	60.1	60.1	15.7	15.4	14.5	14.5		38.2	167.8
CHOTEAU	78.5	73.8	78.7	78.7	62.3	60.9	61.4	61.4	15.5	15.1	14.1	14.1		37.4	165.3
VIDA	74.9	79.6	82.7	82.7	61.5	60.9	61.2	61.2	14.4	14.4	13.5	13.5		37.7	166.0
DUCLAIR	79.9	78.6	<u>85.1</u>	<u>85.1</u>	62.1	60.4	61.0	61.0	14.6	14.6	13.7	13.7		37.7	163.2
EGAN	71.5	76.3	77.6	77.6	60.3	59.8	60.6	60.6	17.4	<u>17.1</u>	<u>16.1</u>	<u>16.1</u>		38.4	167.2
LANNING	74.0	78.0	78.0	78.0	61.3	61.2	61.4	61.4	15.8	15.3	14.5	14.5		36.4	163.9
WB 9879 CLP	71.9	72.9	77.4	77.4	62.1	61.0	61.6	61.6	15.6	15.2	14.2	14.2		37.8	166.2
SY Rockford	82.9	80.5	81.4	81.4	62.0	60.8	61.2	61.2	14.8	14.7	13.6	13.6		36.6	167.0
NS PRESSER CLP	82.1	76.3	79.4	79.4	58.4	57.7	59.1	59.1	14.8	14.7	13.6	13.6		40.1	168.9
HRS 3616	63.4	72.0	79.2	79.2	62.6	62.0	62.1	62.1	15.2	14.9	14.2	14.2		37.0	165.0
HRS 3504	73.7	71.4	76.9	76.9	60.2	58.7	59.7	59.7	14.6	14.6	13.4	13.4		35.1	167.9
ALUM	69.8	74.4	79.4	79.4	61.4	60.2	61.3	61.3	14.7	14.8	13.7	13.7		38.5	166.4
LCS REBEL ²⁾	73.4	77.0			62.8	62.5			15.5	15.0				41.0	163.7
WB 9590 ²⁾	68.1	71.3			61.7	61.0			15.4	15.0				32.5	<u>163.0</u>
WB 9719 ²⁾	60.1	73.0			63.2	62.6			14.3	14.5				34.6	166.7

¹⁾ No planting in 2015, 2) two year's data ('17-'18)

2015-2018 ADVANCED SPRING WHEAT NURSERY MOCCASIN · District 4

VARIETY			LD (AC)			WEI					TEIN		HEIGHT	DATE
	2018	2017- 2018	AC) 2016- 2018	2015- 2018	2018	(LB) 2017- 2018	2016- 2018	2015- 2018	2018	2017- 2018	6) 2016- 2018	2015- 2018	(IN) 201	<u> (JULIAN)</u> 7-2018
SY INGMAR	52.1	42.0	38.8	35.4	63.6	60.6	61.4	<u>61.1</u>	<u>11.9</u>	13.4	13.3	14.1	28.2	175.9
SY Valda	56.6	42.7	40.1	36.7	62.4	60.1	61.1	60.8	10.5	12.7	12.3	12.9	28.0	176.4
WB GUNNISON	<u>61.9</u>	47.4	41.9	38.8	62.3	59.9	60.8	60.7	10.5	12.3	12.2	12.7	26.3	175.9
CORBIN	52.4	41.7	37.3	34.4	59.7	58.8	60.1	59.9	11.0	13.0	13.1	13.9	28.0	175.9
THATCHER	44.9	36.1	34.5	31.8	60.7	57.5	57.9	57.9	11.0	13.5	13.2	14.1	<u>35.1</u>	180.5
FORTUNA	44.5	37.4	33.4	32.2	61.2	59.3	60.0	60.0	11.1	12.9	12.7	13.0	29.4	176.5
LCS PRO	52.6	40.4	38.4	36.2	61.9	58.9	60.4	60.3	10.3	12.4	12.2	13.1	30.3	176.0
REEDER	56.9	44.7	41.6	38.5	62.3	59.9	60.9	60.7	10.7	12.7	12.5	13.0	28.6	176.4
MCNEAL	55.7	45.2	40.9	38.1	62.2	59.4	60.2	59.8	10.3	12.3	12.3	13.0	29.2	177.5
CHOTEAU	52.1	42.5	37.5	34.6	61.5	60.0	60.8	60.3	11.5	13.2	13.2	14.0	27.0	175.5
VIDA	56.9	44.2	40.4	37.8	61.6	59.1	60.2	59.9	9.8	12.0	12.0	12.7	26.9	176.7
DUCLAIR	50.8	42.4	38.9	36.9	61.3	59.0	59.8	59.4	10.6	12.6	12.3	12.8	28.1	176.0
EGAN	52.4	41.2	36.6	34.6	61.5	58.8	59.6	59.4	11.8	14.0	14.2	<u>15.1</u>	28.0	176.5
LANNING	56.3	45.9	42.4	38.5	61.9	59.2	60.3	60.2	10.6	12.5	12.1	13.0	27.5	<u>175.2</u>
WB 9879 CLP	55.1	43.6	40.5	37.2	63.1	60.9	61.2	60.8	11.3	13.0	13.2	13.8	27.0	176.2
SY Rockford ¹⁾	57.3	47.2	43.5		61.7	60.0	60.2		10.2	12.3	12.6		29.3	176.9
NS PRESSER CLP1)	57.0	46.3	41.7		60.0	58.1	59.5		9.6	11.7	12.1		28.7	177.7
HRS 3616 ¹⁾	56.5	44.0	42.0		62.2	60.3	60.8		11.9	13.4	13.0		29.4	175.5
HRS 3504 ¹⁾	56.8	43.2	39.8		61.0	58.2	59.0		10.0	12.4	12.3		27.1	177.0
ALUM ¹⁾	58.6	46.2	<u>44.6</u>		62.7	60.4	61.3		10.3	12.5	12.3		28.2	176.9
LCS REBEL ²⁾	59.4	46.3			63.1	60.7			10.1	12.5			30.5	176.0
WB 9590 ²⁾	57.6	45.4			62.6	60.0			11.0	13.0			25.9	175.4
WB 9719 ²⁾	56.8	44.5			64.0	61.5			10.8	12.5			27.0	177.5

¹⁾ three year's data ('16-'18), 2) two year's data ('17-'18)

2015-2018 ADVANCED SPRING WHEAT NURSERY, CONRAD: District 5

		YIE	LD				ST			PRO	TEIN			HEADING	
VARIETY		(DII	/AC)				GHT (BU)				%)		HEIGHT		LODGING
		2017-	2016-	2015-		2017-	2016-	2015-		2017-	70) 2016-	2015-	(IN)	(JULIAN)	
	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018		2017-2018	3
SY INGMAR	65.3	59.5	62.9	58.7	58.2	58.7	60.5	60.5	15.6	15.7	15.1	15.4	26.9	173.5	21.9
SY Valda	76.0	66.7	68.5	64.5	58.0	58.3	60.4	60.7	14.6	14.7	14.1	14.4	28.8	173.7	21.6
WB GUNNISON	72.1	67.1	66.8	63.1	59.7	59.5	60.8	60.8	13.7	13.9	13.4	13.7	28.3	174.9	2.0
CORBIN	69.3	63.7	64.3	61.2	59.2	58.7	60.5	60.4	14.4	14.9	14.3	14.4	28.0	173.0	4.8
THATCHER	56.5	52.5	51.5	50.4	56.2	55.8	58.0	58.2	14.9	15.2	14.4	14.6	34.8	177.9	27.2
FORTUNA	60.2	57.4	58.8	56.4	58.8	58.7	60.2	60.3	14.7	14.7	14.2	14.4	31.9	175.3	10.9
LCS PRO	63.1	59.6	60.0	58.5	56.6	57.3	59.8	59.8	15.4	15.4	14.7	15.0	31.0	<u>172.3</u>	17.8
REEDER	69.2	68.5	66.8	63.9	57.8	58.2	59.9	60.1	15.5	15.3	14.8	15.0	29.5	175.0	21.3
MCNEAL	60.3	58.5	57.0	57.3	56.9	56.7	58.7	58.9	14.8	14.6	14.1	14.4	28.7	175.9	21.7
CHOTEAU	67.0	63.5	62.5	59.2	58.1	58.2	59.5	59.7	15.1	15.3	14.6	14.9	27.7	174.5	7.5
VIDA	71.1	64.4	67.4	<u>64.6</u>	56.8	57.3	59.1	59.0	14.4	14.3	13.9	14.4	27.8	175.1	8.9
DUCLAIR	73.0	67.0	64.6	60.9	58.1	57.5	58.5	58.1	14.6	14.8	14.4	14.8	28.4	172.7	7.1
EGAN	62.8	59.3	61.3	60.1	56.5	56.8	58.9	58.9	<u>16.1</u>	<u>15.9</u>	<u>15.5</u>	<u>15.8</u>	27.5	174.7	20.0
LANNING	76.3	67.5	67.2	64.1	58.2	57.8	59.3	59.5	15.3	15.4	14.9	15.0	28.2	174.6	21.0
WB 9879 CLP	65.8	65.3	63.3	59.3	57.2	58.3	59.6	59.6	15.7	15.4	14.9	15.2	27.9	175.5	9.0
SY Rockford ¹⁾	65.5	60.1	64.1		56.5	56.8	58.4		14.6	14.6	14.2		27.2	176.5	25.3
NS PRESSER CLP ¹⁾	76.6	<u>71.1</u>	70.2		56.1	56.5	58.1		14.9	14.6	13.8		30.7	179.1	13.3
HRS 3616 ¹⁾	66.0	58.5	61.5		57.5	58.1	59.6		15.3	15.4	15.0		27.9	173.5	<u>35.2</u>
HRS 3504 ¹⁾	54.7	55.1	60.2		55.0	55.7	58.0		14.7	14.4	14.0		25.3	175.5	17.1
ALUM ¹⁾	57.4	62.3	63.8		57.7	58.2	60.5		15.0	14.6	14.1		27.5	175.3	8.3
LCS REBEL ²⁾	70.1	67.7			58.3	58.8			15.2	15.2			28.9	173.8	18.0
WB 9590 ²⁾	66.5	60.7			58.5	59.1			15.5	15.7			25.7	172.9	14.8
WB 9719 ²⁾	<u>77.3</u>	70.3			<u>60.1</u>	<u>60.3</u>			14.6	14.6			27.8	175.7	15.8

¹⁾ three year's data ('16-'18), 2) two year's data ('17-'18)

CONTINUED ON PAGE C54

Dumbest Laws in Every State

Ohio: Toilet paper in coal mines, please!

Operators of underground coal mines must provide "an adequate supply of toilet paper" with each toilet. It's too bad the letter of the law here stops at coal mines.

Virginia: No umarried sex

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

Arkansas: Must pronounce state name correctly

Visitors beware: it is strictly prohibited to pronounce "Arkansas" incorrectly. Per the state Code, the only acceptable pronunciation is "in three (3) syllables, with the final 's' silent, the 'a' in each syllable with the Italian sound, and the accent on the first and last syllables." So keep your Arkan-sass to yourself.

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



Truck Trailer & **Equipment Sales**

Scott Schmiedeke (406) 240-2572 Victor, MT

Henry Kallis (605) 639-1904 Spearfish, SD

See us on the web: www.tte-inc.com



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



2006 Deere 310SG 3300 hours, enclosed cab with heat and air conditioning. Power Shift transmission, ride control, air ride cloth seat, pilot controls, 4x4, Ex-

tend-A-Hoe, 24" backhoe bucket, manual coupler. Very nice machine. Located in Spearfish, SD.\$44,900



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 Bobcat V518 3145 hours, enclosed cab with heat and air conditioning, auxiliary hydraulics, hydraulic coupler, 48" forks, 3

steering modes, tires approximately 40%, 11,000 lb. operating weight, 5500 lb. lift capacity, 17-ft. reach, all repairs are done, serviced, very nice condition. 1.5 CY GP bucket is available at additional cost. We are a Grabtech dealer, and can install a heavy duty Grabtech grapple for \$4750. Located in Spearfish, SD.....\$49,500



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\$41,900



2007 Skytrak 6036 3300 hours, auxiliary hydraulics, 72" carriage, 48" forks, 3-way steering, almost new foam filled tires, very nice condition, just serviced, 6000 lb. lift, 36-ft. reach. Lo-

cated in Spearfish, SD\$39,900



2014 Cat 259D 2320 hours, enclosed cab with heat and air conditioning, advanced display with rearview camera, heated air ride seat, bucket leveling, auxiliary hydraulics & electrics, electric coupler, 2 speed travel, ser-

viced and job site ready. Located in Victor, MT. \$44,900



2016 Cat 236D 250 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 lb. tip load. 6600 lb. operating weight, very nice machine in like new condition... Located in Victor, MT\$37,500

Spring Wheat Variety Performance Summary in Montana

CONTINUED FROM PAGE C52

2015-2018 ADVANCED SPRING WHEAT NURSERY, HAVRE: District 5

VARIETY		YIE	LD				GHT			PRO	IEIN		HEIGHT	DATE
VARIETT		(BU	/AC)				(BU)			(%	%)		(IN)	(JULIAN)
	2018	2017-	2016-	2015-	2018	2017-	2016-	2015-	2018	2017-	2016-	2015-		-2018
07.1101110	44.0	2018	2018	2018	04.7	2018	2018	2018	40.0	2018	2018	2018	04.7	1000
SY INGMAR	41.2	35.9	37.6	39.2	61.7	60.7	<u>59.8</u>	<u>58.4</u>	16.0	16.2	16.1	16.3	24.7	166.8
SY Valda	42.3	35.2	36.2	37.8	60.1	60.1	59.5	<u>58.4</u>	16.3	16.3	15.8	16.2	23.6	166.9
WB GUNNISON	36.7	31.8	32.5	34.3	60.4	59.5	58.6	58.0	15.3	15.2	15.1	15.5	23.8	166.6
CORBIN	40.8	32.5	36.9	38.3	60.9	60.0	59.5	58.0	16.7	16.5	16.0	16.3	24.8	164.6
THATCHER	34.1	30.9	31.3	30.8	55.7	55.8	55.7	54.3	16.9	16.4	16.2	16.7	33.2	170.2
FORTUNA	35.4	31.4	33.0	33.3	59.3	58.6	58.7	57.7	15.6	15.6	15.7	15.8	30.1	167.1
LCS PRO	40.1	33.6	38.7	39.9	60.0	60.2	<u>59.8</u>	57.8	16.2	16.2	15.8	16.1	27.3	166.5
REEDER	43.5	36.7	39.3	40.1	59.8	59.1	58.8	57.7	15.9	16.0	15.7	16.1	26.1	167.7
MCNEAL	39.7	36.2	37.2	38.8	57.4	57.3	56.7	56.2	16.0	16.0	15.8	16.1	28.6	168.0
CHOTEAU	36.6	31.5	33.3	34.8	59.6	58.7	58.5	57.1	16.2	16.3	16.1	16.3	23.8	167.5
VIDA	44.3	40.3	40.3	41.7	59.5	59.1	58.2	57.1	15.0	15.3	15.4	15.7	24.9	168.5
DUCLAIR	35.0	30.7	33.3	35.8	59.8	58.5	58.2	56.8	15.9	16.2	15.9	16.2	23.4	164.9
EGAN	39.0	34.2	38.3	38.5	57.3	56.7	56.8	56.0	<u>17.4</u>	17.2	<u>17.3</u>	<u>17.5</u>	25.7	167.8
LANNING	44.0	35.9	39.1	40.4	58.4	58.4	58.3	57.0	16.1	16.5	16.3	16.4	24.3	166.8
WB 9879 CLP	44.6	36.7	39.0	38.8	59.7	59.0	58.5	57.4	16.3	16.3	16.1	16.3	24.6	167.6
SY Rockford ¹⁾	44.2	37.7	38.9		59.7	58.8	57.9		15.5	15.7	15.6		25.6	167.7
NS PRESSER CLP1)	44.9	40.1	38.5		58.6	58.6	57.0		15.3	15.3	15.4		26.7	170.2
HRS 3616 ¹⁾	43.4	34.7	37.0		60.0	59.7	58.9		16.9	16.8	16.7		23.7	166.7
HRS 3504 ¹⁾	40.9	34.0	36.7		58.1	58.8	58.0		15.4	15.6	15.3		24.4	167.9
ALUM ¹⁾	40.0	35.3	<u>40.7</u>		60.1	59.4	59.3		15.8	15.8	15.8		24.8	168.0
LCS REBEL ²⁾	38.4	31.4			61.3	60.8			16.3	16.5			26.8	165.4
WB 9590 ²⁾	38.5	31.0			61.4	61.2			16.4	16.4			22.0	<u>164.3</u>
WB 9719 ²⁾	47.1	39.7			62.1	61.3			15.3	15.4			23.4	168.7

¹⁾ three year's data ('16-'18), 2) two year's data ('17-'18)

2015-2018 ADVANCED SPRING WHEAT NURSERY, SIDNEY (Dry): District 6

VARIETY			LD			WEI				PRO			HEIGHT	HEADING DATE
			/AC)	1 1\		(LB		1		(%		11)	(IN)	(JULIAN)
	2018	2017- 2018	2016- 2018	2015 ¹⁾ - 2018	2018	2017- 2018	2016- 2018	2015 ¹⁾ - 2018	2018	2017- 2018	2016- 2018	2015 ¹⁾ - 2018	2017	'-2018
SY INGMAR	46.7	36.7	40.9	40.9	65.1	63.7	63.7	63.7	15.8	15.0	14.3	14.3	24.7	168.5
SY Valda	58.6	40.9	43.1	43.1	64.5	63.5	63.4	63.4	14.3	14.2	13.5	13.5	25.7	168.1
WB GUNNISON	54.4	39.3	38.8	38.8	63.7	63.1	63.3	63.3	14.5	14.1	13.4	13.4	24.9	168.8
CORBIN	50.6	37.1	39.2	39.2	64.0	63.2	63.2	63.2	15.3	14.7	13.8	13.8	26.7	166.9
THATCHER	46.4	31.2	32.8	32.8	60.7	58.8	59.6	59.6	15.9	15.3	14.6	14.6	<u>30.7</u>	172.8
FORTUNA	42.3	33.5	36.9	36.9	63.1	62.2	62.4	62.4	14.6	14.5	14.1	14.1	28.9	169.4
LCS PRO	54.6	39.6	42.6	42.6	64.7	63.6	63.6	63.6	15.3	14.9	13.8	13.8	29.6	168.4
REEDER	61.8	44.3	48.1	48.1	63.8	63.0	63.1	63.1	14.9	14.5	13.9	13.9	26.6	168.4
MCNEAL	62.6	42.2	43.7	43.7	63.3	61.3	61.4	61.4	14.2	14.2	13.9	13.9	27.8	171.2
CHOTEAU	50.1	34.7	38.8	38.8	63.4	62.0	62.2	62.2	15.3	14.7	13.9	13.9	25.6	169.7
VIDA	61.0	<u>45.9</u>	47.6	47.6	63.8	62.9	62.2	62.2	14.4	13.6	13.6	13.6	25.9	169.6
DUCLAIR	52.2	36.2	40.0	40.0	63.1	61.7	62.0	62.0	15.1	14.7	13.8	13.8	24.9	<u>166.2</u>
EGAN	49.8	37.7	38.1	38.1	62.5	60.2	60.7	60.7	<u>16.8</u>	<u>16.1</u>	<u>15.3</u>	<u>15.3</u>	25.2	170.5
LANNING	56.8	42.0	42.8	42.8	63.2	62.5	62.8	62.8	15.6	15.0	13.9	13.9	24.9	166.5
WB 9879 CLP	52.0	38.3	40.3	40.3	63.9	62.8	63.0	63.0	14.9	14.6	13.7	13.7	24.8	170.4
SY Rockford	50.6	39.9	44.3	44.3	63.0	62.2	62.0	62.0	14.7	14.3	13.5	13.5	25.7	170.5
NS PRESSER CLP	57.5	44.2	47.1	47.1	62.8	61.9	61.8	61.8	14.7	13.7	13.3	13.3	27.9	172.4
HRS 3616	45.0	38.3	43.1	43.1	63.5	63.3	63.0	63.0	15.9	15.2	14.5	14.5	25.3	168.2
HRS 3504	<u>63.7</u>	44.3	48.2	<u>48.2</u>	63.2	63.2	62.9	62.9	14.7	14.3	13.7	13.7	23.4	170.4
ALUM	61.3	41.5	44.8	44.8	65.2	63.8	63.9	<u>63.9</u>	14.5	14.2	13.5	13.5	25.3	169.3
LCS REBEL ²⁾	51.3	38.4			65.3	<u>64.8</u>			15.5	15.0			27.5	167.2
WB 9590 ²⁾	58.5	42.4			64.9	64.6			14.9	14.5			23.7	167.3
WB 9719 ²⁾	61.5	42.5			<u>66.2</u>	<u>64.8</u>			15.5	14.6			24.9	169.6

¹⁾ No planting in 2015, 2) two year's data ('17-'18)

2015-2018 ADVANCED SPRING WHEAT NURSERY, SIDNEY (Irrigated): District 6

VARIETY						WEI	GHT			1110			HEIGHT	DATE
VAIGLT !		(BU	AC)			(LB/				(%	6)		(IN)	(JULIAN)
	2018	2017-	2016-	2015-	2018	2017-	2016-	2015-	2018	2017-	2016-	2015-	201	7-2018
		2018	2018	2018		2018	2018	2018		2018	2018	2018		
SY INGMAR	95.9	93.4	85.5	76.0	64.4	64.4	<u>63.4</u>	<u>63.4</u>	15.5	14.0	14.2	14.6	31.2	172.5
SY Valda	<u>105.9</u>	100.8	93.2	<u>84.0</u>	63.9	63.5	62.9	63.0	15.2	13.1	13.3	13.8	31.6	171.2
WB GUNNISON	80.0	80.4	73.8	71.8	63.1	63.7	63.0	63.0	15.0	13.3	13.5	13.5	29.6	171.1
CORBIN	79.3	89.7	79.7	75.0	63.1	63.5	62.4	62.4	15.5	14.4	14.5	14.5	32.2	<u>168.6</u>
THATCHER	71.6	75.1	66.9	59.7	61.8	61.8	60.8	60.9	15.8	14.1	14.4	14.7	<u>40.4</u>	176.8
FORTUNA	69.1	76.1	68.4	63.1	61.9	62.5	61.6	61.6	15.3	14.2	14.4	14.5	39.4	173.0
LCS PRO	101.7	91.5	83.4	74.9	64.3	63.8	63.3	63.1	15.3	13.6	14.0	14.0	34.6	169.4
REEDER	93.7	95.6	87.3	78.3	63.1	63.4	62.8	62.8	15.9	14.6	14.8	15.1	34.9	171.5
MCNEAL	86.8	91.0	82.7	78.0	62.2	62.4	61.6	61.6	15.5	14.0	14.1	14.1	33.6	173.6
CHOTEAU	84.1	87.3	81.9	76.4	62.1	62.3	61.5	61.5	15.2	13.5	13.9	14.1	32.5	173.2
VIDA	92.7	97.4	84.9	76.1	62.1	62.5	61.2	61.0	14.8	13.1	13.8	14.2	32.7	172.4
DUCLAIR	88.2	91.9	84.9	79.5	62.4	62.3	61.6	61.6	15.2	13.5	13.8	13.9	33.6	169.5
EGAN	79.5	83.2	77.4	71.2	61.7	62.0	61.1	61.0	16.0	14.7	<u>15.2</u>	<u>15.4</u>	33.4	172.9
LANNING	91.0	94.0	86.6	75.4	62.6	62.8	62.0	61.9	16.0	14.2	14.8	15.1	32.7	169.1
WB 9879 CLP	85.0	89.6	82.5	76.5	62.5	62.6	61.8	61.9	15.5	13.8	14.0	14.1	32.6	172.6
SY Rockford ¹⁾	96.2	99.0	88.4		62.2	62.1	60.5		14.9	13.5	13.7		32.6	173.7
NS PRESSER CLP ¹⁾	79.6	92.4	79.4		60.8	61.6	59.8		14.8	13.3	13.9		35.9	174.7
HRS 3616 ¹⁾	92.2	93.3	85.8		62.3	62.4	61.6		<u>16.5</u>	14.4	14.6		32.4	172.1
HRS 3504 ¹⁾	99.1	100.9	91.5		62.9	62.8	61.6		15.0	13.2	13.5		30.5	172.6
ALUM ¹⁾	95.2	95.8	85.3		63.7	64.3	62.6		15.1	13.6	13.9		33.0	171.4
LCS REBEL ²⁾	93.9	95.8			64.5	64.7			16.1	14.6			34.7	169.5
WB 9590 ²⁾	93.1	95.8			62.9	63.2			16.2	14.4			28.4	168.8
WB 9719 ²⁾	102.6	<u>103.3</u>			<u>65.8</u>	<u>66.2</u>			15.1	13.8			31.8	173.1

¹⁾ three year's data ('16-'18), 2) two year's data ('17-'18)

Dumbest Laws in Every State

Vermont: Energy resources supported

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

New Mexico: Redefinining indecent exposure

PROTEIN

PLANT | HEADING

Let's take a break to focus on what's not illegal: walking around with your butt out. In New Mexico, "indecent exposure" is defined as "intentionally exposing [one's] primary genital area to public view." Buttocks are nowhere to be mentioned.