

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

FARM EQUIPMENT FOR SALE

- 1975 John Deere 7520 tractor with 8000 hours.
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- 1962 Ford F700 truck, V8 engine, box and hoist.
- 1962 GMC 4000 truck, V6 engine, box and hoist.

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The Catholic Church once associated chocolate with heretical behavior, including blasphemy, extortion, witchcraft, and seduction.

#####

To get rid of the foam "head" at the top of beer, stick your fingers in it.

#####

About 25 percent of U.S. farm products by value are exported each year.

2018 Montana Durum Variety trials

By Dr. Michael Giroux, MSU-Bozeman; Andy Hogg, MSU-Bozeman; Dr. Pat Carr and Dr. Jed Eberly, MSU-CARC, Moccasin; Dr. Chengci Chen and Calla Kowatch, MSU-EARC, Sidney; Dr. Darrin Boss and Peggy Lamb, MSU-NARC, Havre; Dr. Ken Kephart and Valerie Smith, MSU-SARC, Huntley; Dr. Gadi Reddy and John Miller, MSU-WTARC, Conrad; Dr. Linda Dykes, USDA-ARS, Fargo, ND

OBJECTIVE:

To test advanced durum lines for agronomic and quality traits relative to currently grown varieties under Montana growing conditions.

METHODS:

In 2018, twelve experimental durum lines and twelve elite durum varieties were tested at six Montana Agricultural Experiment Stations (Table 1). This year's trial included 11 experimental lines (MTD16001-MTD16011) developed at Montana State University-Bozeman that carry genetic markers associated with reduced cadmium accumulation and/or a licensed gene that increases pasta firmness and one experimental line (MT112219) developed by Dr. Joyce Eckhoff (MSU-EARC) with reduced cadmium accumulation. Elite durum lines tested include releases from North Dakota State University, the Canadian Crop Development Center-University of Saskatchewan, and Westbred. Rainfed experiments were grown in Bozeman, MT (MSU-Post Agronomy Farm), Havre, MT (MSU-NARC), Sidney, MT (MSU-EARC), Conrad, MT (MSU-WTARC), Huntley, MT (MSU-SARC), and Moccasin, MT (MSU-CARC). Irrigated trials were grown in Bozeman, MT (MSU-Post Agronomy Farm) and Sidney, MT (MSU-EARC). There were three replicates of each line/variety grown at each location in a randomized complete block design except for at SARC where plots were planted and analyzed using an alpha-lattice design. Seed was treated with CruiserMaxx Vibrance for Cereals® (Syngenta) (5 fl oz/100 lb), and Mountrail was considered the check variety. The individual research centers/cooperators provided agronomic data and grain sub-samples from the three replicates per line per location were bulked and submitted to Dr. Linda Dykes (USDA-ARS, Fargo, ND) for analysis of seed traits, milling and semolina quality, and mixing strength.

Overall statewide agronomic performance can be found in Table 2 with agronomic performance separated by irrigation environment (irrigated or rainfed) presented in Tables 3 and 4. Agronomic data for each individual location is in Tables 5-12 with overall quality data summarized in Tables 13 and 14. Individual location quality data can be found in Tables 15-32. Agronomic data for off-station variety trails grown in the north central and north-eastern part of Montana can be found at the end of this report (Tables 33-38). All the off-station trials in north central Montana were conducted and data summarized by Peggy Lamb (MSU-NARC) and all the off-station trials in north-eastern Montana were conducted by Dr. Chengci Chen (MSU-EARC).

AGRONOMIC RESULTS SUMMARY:

Across eight locations in 2018, MTD16001 (84.6 bu/ac) was highest yielding followed by MTD16004 (81.0 bu/ac). MTD16001 yielded significantly more than the check Mountrail (78.5 bu/ac) (Table 2). MT112219 had the largest test weight (62.9 bu/ac) overall but had the second lowest protein content (13.7%) after MTD16003 (13.6%), which were both significantly lower than Mountrail (Table 2). Dynamic (15.6%), MTD16009 (15.6%) and Vivid (15.5%) had the highest protein content which was significantly higher than Mountrail (Table 2). MTD16009 had the highest protein content of the experimental lines (15.6%) but also had the second lowest yield (74.1 bu/ac) and lowest test weight (58.6 lbs/bu) in the trial (Table 2). MTD16008 (15.3%) also had significantly higher protein than the check Mountrail (14.7%) (Table 2). MT112219 (28.7 in.) was the shortest entry followed by Alzada (29.6 in.), and both are semi-dwarfs, while the tallest lines were MTD16002 (41.1 in.) and MTD16006 (40.2 in.) (Table 2). Alzada and MT112219 also had a significantly earlier heading date (-4 days) compared to Mountrail (Table 2).

Under irrigated conditions, MTD16001 had the highest yield (120.6 bu/ac), which was significantly higher than Mountrail, and Alzada had the lowest yield (90.1 bu/ac) (Table 3). MTD16010 had the highest test weight (64.0 lb/bu) which was significantly higher than Mountrail (Table 3). MTD16009 had the lowest test weight (61.1 lb/ac) and the

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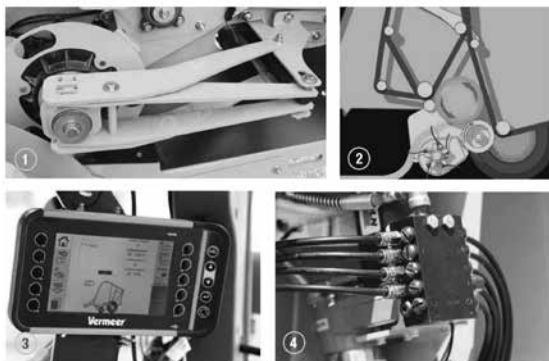


The 604N/605N balers deliver the strength, productivity and operating convenience of Super M baler technology with the added capability and enhanced performance of features like the patented dual-stage belt-tightening system. From top to bottom, this baler is built to withstand tough conditions and high-capacity production — offering smooth, consistent performance to high-volume hay producers who want large 6 ft (1.8 m) diameter bales.

An operator will recognize the heavy-duty components and several key features like 5-bar pickup, direct crop feed, optional netwrap system and high-strength upper/lower drive rollers. It all results in reliable performance and increased efficiency. The 604N/605N balers come equipped with 21.5L-16.1 flotation tires, a hydraulic bale ramp, a moisture sensor and an automatic pickup clutch. Packaged together these features help optimize performance for high-volume producers.

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- 2 Direct Crop Feed enables the forage crop to be fed directly to the bottom drum and bale-starting chamber.
- 3 The E-Link Pro display offers enhanced usability, such as accessible bale weight and moisture readings on the home screen with standard moisture sensors and optional scale kit. Additionally, the E-Link Pro comes with the ability to keep track of information for up to 20 customers, with up to 10 fields per customer.
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BBM ZT Elite 54" 726cc Kawasaki FR.....	NEW
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Beltec auger, several bits.....	\$3450
Worksaver post pounder, 3-point.....	\$2600
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2016 Vermeer 605N 2500 bales, net/twine.....	\$39,999
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2013 Vermeer R2300 very few acres.....	\$15,500
2009 Vermeer R2300 & R2800, new teeth.....	\$13,000 & \$18,900
Vermeer R23A rake. Good condition.....	\$8000

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2018 Montana Durum Variety trials

CONTINUED FROM PAGE B2

highest protein content (15.5%). MTD16003 had the lowest protein content (12.9%) followed by MT112219 (13.7%), both were significantly lower than Mountrail (14.8%) (Table 3).

In rainfed trials, MTD16001 (73.2 bu/ac) was highest yielding, significantly higher than Mountrail (67.7 bu/ac) (Table 4). MT112219 had the highest test weight (62.9 lb/bu), was the shortest (28.8 in.) and had the lowest protein content (13.9%) (Table 4). CDC-Dynamic (16.1%) and MTD16009 (16.0%) had the highest protein of the lines.

QUALITY RESULTS SUMMARY:

Grain quality results from USDA-ARS showed significant differences for all traits measured (Tables 13, 14). MT112219 had the highest test weight (62.7 bu/ac), whereas Alzada had the largest individual seed weight (45.0 mg), individual kernel diameter (3.0 mm), and percent large kernels (81.5%). MTD16009 had the lowest test weight (57.9 bu/ac), lowest number of large kernels (49.1%), and the highest grain protein (15.7%). MT112219 and MTD16003 had the lowest grain protein (13.7%).

MTD16003 had the highest milling yield (63.3%) followed by MT112219 (63.2%) while MTD16009 had the lowest milling yield (59.1%). Semolina protein results reflected the grain protein results with MTD16009 having the highest protein content (14.5%) followed by Dynamic (14.1%) while

MTD16003 (12.2%) and MT112219 (12.5%) had the lowest protein content. Dynamic and Precision had the highest grain ash content (1.59%) while Alzada, MT112219, and MTD16009 had the highest semolina ash content (0.69%). MTD16001 had the lowest grain ash content (1.43%) and lowest semolina ash content (0.59%). Alzada had the highest falling number (439.8 s), while Vivid had the lowest falling number (391.4 s).

Though significant differences existed for semolina whiteness (L*) the range was very small (1.5 units), with the whitest line being Mountrail (85.4) and the least white lines being MTD16008 (83.8) and MT112219 (84.4). Semolina yellowness had a larger range (6.5 units) with the highest yellow values coming from Precision (31.8), Dynamic (31.7), Vivid (31.6), and Fortitude (31.1). MTD16007 (21.8) had the least yellow semolina which was significantly lower than Mountrail (25.3). The range for yellowness in the MSU experimental lines ranged from 25.5 to 28.8. As measured by mixograph, Alzada had the strongest gluten strength with a mixograph pattern of 6.6 while Mountrail had the weakest gluten with a mixograph pattern of 3.0. The MSU experimental lines had mixograph patterns that ranged from 3.8 to 5.3.

CONTINUED ON PAGE B4

National Mom and Pop Business Owners Day

Date When Celebrated: Always March 29

National Mom and Pop Business Owners Day celebrates small business owners. These individuals spend countless hours nurturing and growing their young enterprises. The workload demands, and lack of a hired staff, often translates into long and late hours, and many missed family and personal events. But, all in all, they love what they do. After all, they are their own boss.

New businesses have always been a vital, yet not fully appreciated, part of the U.S. economy. On they retail side, they bring different and unique products to the marketplace. They provide stellar and personal service support. When you call, you are more likely to get a real, live person. And unlike big national chains, they know their products. They are outstanding performers in niche markets. In manufacturing, they create many new concepts and ideas, making them creators of new products.

Celebrate National Mom and Pop Business Owners Day by showing your support....shop their stores today, and everyday.

Origin of "National Mom and Pop Business Owners Day":

According to the son of the "mom and pop" this day was created for:

"This holiday was created to honor the business that my parents started on 3/29/39 in Everett, MA — a hat shop called Ruth's. It later developed into a woman's specialty clothing store and moved to Medford, MA, increasing in size to 10,000 square feet with over \$2 million dollars revenue until it closed in 1997." Rick Segel, Poinciana, FL 34759

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The word "tip" dates back to the old London coffeehouses. Conspicuously placed brass boxes etched with the inscription, "To Insure Promptness," encouraged customers to pay for efficient service. The resulting acronym, TIP, has become a byword.

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If your faucet is leaking, it can add up to more than water running down the drain. One drop per second can add up to 165 gallons a month—that's more water than the average person uses in two weeks!

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- 2008 Bobcat 442E, hyd thumb, QC, rubber tracks, 34" dig bucket, 90" front push blade, 2800 hours..... Call
- 2018 Case CX55B, rubber tracks, AC, heat, 2 buckets... Call
- 2011 Cat 305.5D, hyd thumb, enc cab, auxiliary hyd, blade, 4900 hours..... \$39,000
- 1997 Cat 315, fixed thumb, 36" bucket \$27,500
- 2008 Deere 35D, AC, heat, JD hyd thumb, QC, auxiliary hyd, 16" dig bucket, short arm, Yanmar engine, 69" dozer blade, 4600 hours..... Call
- Deere 135C, bucket, thumb, hyd QC..... Call
- Deere 135C, good blade and thumb Coming In
- 2006 Deere 200CLC Call
- 2004 Deere 200CLC, AC, heat, QC, cat walks, cab guards, 7000 hours..... \$59,500
- Komatsu PC75UU-1, blade, thumb available, ex-city machine. Very nice machine Call
- Komatsu PC120-6 Coming In
- 2015 Kubota KX080-4R3, blade, rubber tracks, 24" dig bucket, hyd thumb, heat, AC, 3148 hours. Very nice Call
- Hitachi EX60-1, runs good..... \$15,000
- 2000 Hitachi ZX120, progressive link thumb, 36" dig bucket, 9000 hours. Very clean machine..... Call

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- Cat 225, comes with Denis delimber, 3204 engine, recent undercarriage and turn table, well kept up..... \$13,500
- Cat 320B LL log loader. For parts Call
- Danzco PT20 delimber, high mount. Good operating condition \$11,500
- Deere 648G II skidder, 28L rubber, winch, cab, some glass missing. We do have to go through shop yet POR
- Deere 693D Denis delimber. Nice older machine Call
- Hurricane 20 saw head, accumulator arm, hyd tilt, low hours on saw motor rebuild, came off a 2520 Timber Jack, a very good head..... \$7250
- Timbco 2515 feller/buncher with bar saw, low hours on new engine, will go to work \$29,000
- Timbco T425D feller/buncher..... Call
- Timberjack 2520 feller/buncher, parts machine..... Call

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- 2003 Deere 772CH II Call

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- Deere 644G, hyd coupler. Good machine \$39,900
- 2009 Komatsu WA 320-6, ACS hyd QC with bucket, new rubber, 20.5x25. A very nice loader Call

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- 2012 Bobcat T190, enc cab, hyd disconnect, very good tracks, 4400 hours. Nice older machine Call
- 2015 Cat 242D, open station, good bucket, like new tires, 3233 hours. Runs very well..... \$23,500
- Cat 297C, open station, forks & bucket, nice tracks, 4000 hours. Nice operating machine Call
- 2004 John Deere 240 Series II, runs but does have a miss \$11,000
- 2013 Kubota SVL75W, OROPS, new tracks, 74" bucket, aux hyd, open station, forks, 3200 hours..... \$31,500
- Scat Trak 1700CX \$12,000

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- 1980 Kenworth G124, 14-ft. box, 12R22.5 radial tires, Cummins engine, Jake brake, walking beam suspension, pintle hitch on back. Good older dump truck \$12,000
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UPCOMING AUCTIONS

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

2018 Montana Durum Variety trials

CONTINUED FROM PAGE B3

Table 1. 2018 test site information across Montana.

Description	Bozeman	Bozeman (I)	SARC	CARC
Latitude	45° 41'	45° 41'	45° 35'	47° 03'
Longitude	111° 00'	111° 00'	108° 13'	109° 57'
Planting Date	5/5/2018	5/3/2018	4/21/2018	4/26/2018
Harvest Date	9/6/2018	9/10/2018	8/14/2018	8/31/2018
Crop Year Precipitation	20.09"	20.09"	21.70"	21.71"
Growing Season Precipitation	6.45"	6.45"	10.45"	10.15"
Irrigation	-	2"	-	-
Herbicide	Huskey -15 oz/ac	Huskey (15 oz/ac)	Bromac (16 oz/ac); Advanced Affinity (0.5 oz/ac); 1 lbs AMS.	Curtail M 28oz/ac
Soil Fertility	N(0-48") 148 lbs/ac, PKS 10-219 ppm, S(0-24")-32 lbs/ac	N(0-48") 166 lbs/ac, PK 33-407 ppm, S(0-24")-54 lbs/ac	N(0-48") 256 lbs/ac, PK 12-456 ppm, S (0-24")-122 lbs/ac	N(0-24")6.5 ppm, P-8 ppm,
Fertilizer applied	300 lbs/acre 46-0-0 top dress	435 lbs/acre 46-0-0 top dress	NPKS 6-26-0-0 in furrow	50 lbs/ac NPKS 20-30-20-10 at planting plus 80 lbs/ac 46-0-0 on 5/30/18
Previous Crop	Fallow	Fallow	Fallow	Fallow
Description	NARC	EARC	EARC (I)	WTARC
Latitude	48° 29'	47° 46'	47° 46'	48° 18'
Longitude	109° 48'	104° 14'	104° 14'	111° 55'
Planting Date	5/1/2018	4/27/2018	5/4/2018	5/4/2018
Harvest Date	8/9/2018	8/22/2018	8/24/2018	8/23/2018
Crop Year Precipitation ¹	13.15"	14.34"	14.19"	11.79"
Growing season Precipitation ¹	4.28"	8.48"	8.94"	5.19"
Irrigation	-	-	2.68"	-
Herbicide	Bromac -16 oz/ac, Affinity 0.6 oz/ac	NA	NA	RT3-40 oz/ac
Soil Fertility	N(0-48")-112.0 lbs/ac PKS-27-345-9 ppm	N-44.5 lbs/ac P ₂ O ₅ 30 lbs/ac	N-38.6 lbs/ac P ₂ O ₅ 15 lbs/ac	N(0-48")-15.9 lb/ac PK-30-528 ppm
Fertilizer applied	NPKS 100-20-10-10 lb/ac	73.4 lbs/ac N 46-0-0 + 20.8 P ₂ O ₅ lbs/ac	104.2 lbs/ac N 46-0-0 + 29.5 lbs/ac P ₂ O ₅	NPK 11-22-0 lb/ac plus 230-0-20 banded at planting
Previous Crop	Fallow	Fallow	Fallow	Fallow

¹Crop year precipitation=Sept 2017 - Aug 2018, growing year precipitation=May 2018 -Aug 2018
 EARC Crop Year precipitation is Oct 2017 – Sept 2018.

Table 2. Agronomic means from 2018 intrastate durum trials all locations (n=8) and conditions.

Line	Source ¹	Release year	Heading (Julian)	Plant height (in)	Yield (bu/ac) ²	Test weight (lb/bu)	Protein (%) ³
Mountrail	NDSU	1998	179.7	37.2	78.5	61.7	14.7
Divide	NDSU	2005	180.9	39.8	75.7	62.1	14.9
Alkabo	NDSU	2005	178.6	37.3	77.0	62.4	14.4
Grenora	NDSU	2005	178.1	36.4	78.5	61.3	14.6
Tioga	NDSU	2010	179.7	39.9	75.2	61.7	15.3
Carpio	NDSU	2012	180.5	37.4	77.8	61.6	14.6
Joppa	NDSU	2013	178.8	38.7	74.4	62.1	14.5
Alzada	WestBred	2004	176.0	29.6	<u>69.1</u>	61.4	14.6
Dynamic ⁺	CDC	2016	181.0	38.5	79.2	61.6	15.6
Fortitude ⁺	CDC	2015	179.5	35.8	79.3	61.7	15.2
Precision ⁺	CDC	2016	179.5	38.4	78.0	61.9	15.5
Vivid ⁺	CDC	2013	179.5	38.0	77.3	62.0	15.6
MT112219 ⁺	MSU	-	<u>175.9</u>	<u>28.7</u>	75.0	62.9	13.7
MTD16001 [*]	MSU	-	181.2	38.2	84.6	61.5	14.0
MTD16002 ⁺	MSU	-	182.2	41.1	77.2	61.6	14.7
MTD16003	MSU	-	179.3	37.8	76.7	62.2	<u>13.6</u>
MTD16004 [*]	MSU	-	179.2	37.2	81.0	62.7	14.5
MTD16005 ⁺	MSU	-	181.4	38.8	77.7	61.3	14.7
MTD16006 ⁺	MSU	-	180.3	40.2	79.0	61.8	14.6
MTD16007 ⁺	MSU	-	180.0	37.5	78.2	62.4	14.8
MTD16008 ⁺	MSU	-	179.1	38.9	74.3	60.3	15.3
MTD16009	MSU	-	181.7	39.6	<u>74.1</u>	<u>58.6</u>	15.6
MTD16010 [*]	MSU	-	180.8	39.6	76.2	62.4	15.1
MTD16011 ⁺	MSU	-	181.4	38.6	74.5	61.4	14.9
Mean	-	-	179.8	37.6	77.0	61.7	14.8
CV (%)	-	-	0.4	3.6	9.0	1.0	4.0
LSD (0.05)	-	-	0.4	0.8	3.9	0.3	0.3
F < Prob	-	-	<0.001	<0.001	<0.001	<0.001	<0.001

⁺Low cadmium accumulation gene is present

^{*}Contain a licensed pasta firmness gene

¹NDSU-North Dakota State University, CDC-University of Saskatchewan Crop Development Center, MSU-Montana State University

²Reported on a 13% moisture basis

³Reported on a 12% moisture basis

Underline/Bold = Highest values, underline = lowest

HAY AND EQUIPMENT FOR SALE

Approximately 1300 lb round bales -
 1st cutting alfalfa/Orchard/Brome hay, 2nd cutting
 alfalfa/Orchard/Brome hay and barley/pea hay
Darf 13 wheel hay rake
DewEze pickup box mount bale feeder
Muskeg snowcat, cab, winch, trailer
Dan Ringer, 406-547-3650, White Sulphur Springs, MT

2018 Montana Durum Variety trials

CONTINUED FROM PAGE B4

Table 3. Agronomic means from 2018 irrigated intrastate durum trials (n=2).

Line	Heading (Julian)	Plant height (in)	Yield (bu/ac) ¹	Test weight (lb/bu)	Protein (%) ²
Mountrail	183.5	39.9	110.5	62.9	14.8
Divide	185.0	42.5	113.0	63.6	14.7
Alkabo	182.0	38.3	109.1	63.3	14.3
Grenora	181.7	38.3	117.3	62.6	14.4
Tioga	183.2	42.0	112.1	63.4	14.9
Carpio	184.0	39.2	113.7	63.8	14.3
Joppa	182.3	41.3	106.2	63.4	14.5
Alzada	<u>180.0</u>	28.9	<u>90.1</u>	61.7	14.9
Dynamic	185.7	40.3	118.8	63.7	15.3
Fortitude	183.3	36.9	114.1	62.6	15.3
Precision	183.3	40.1	114.7	63.6	15.3
Vivid	183.2	39.6	112.4	63.5	15.5
MT112219	180.2	<u>28.9</u>	100.4	62.5	13.7
MTD16001	185.3	40.0	120.6	63.4	14.0
MTD16002	185.5	45.1	109.9	62.9	15.1
MTD16003	182.8	39.7	114.9	63.5	<u>12.9</u>
MTD16004	183.0	39.2	110.0	63.6	14.8
MTD16005	185.7	40.4	111.1	63.1	14.6
MTD16006	184.8	41.5	108.7	63.1	14.9
MTD16007	183.5	38.6	111.9	64.0	14.9
MTD16008	182.7	40.8	113.6	62.1	15.1
MTD16009	185.3	41.8	116.4	<u>61.1</u>	15.5
MTD16010	185.2	40.6	112.4	64.0	15.0
MTD16011	185.5	40.5	104.7	63.3	14.8
Mean	183.6	39.3	111.1	63.1	14.7
CV%	0.4	3.3	6.8	0.6	2.3
LSD (P=0.05)	0.8	1.5	9.7	0.5	0.4
Prob > F	<0.001	<0.001	<0.001	<0.001	<0.001

¹Reported on a 13% moisture basis

²Reported on a 12% moisture basis

Underline/Bold = Highest values, underline = lowest

Table 4. Agronomic means from 2018 rainfed intrastate durum trials (n=6).

Line	Heading (Julian)	Plant height (in)	Yield (bu/ac) ¹	Test weight (lb/bu)	Protein (%) ²
Mountrail	177.9	36.8	67.7	61.2	14.9
Divide	179.2	39.3	62.1	61.4	15.3
Alkabo	176.8	37.2	66.0	62.1	14.7
Grenora	176.1	36.1	64.1	60.7	15.0
Tioga	178.2	39.4	61.7	61.0	15.8
Carpio	179.1	37.4	66.0	60.9	14.9
Joppa	176.9	38.3	63.6	61.6	14.8
Alzada	174.0	30.1	62.6	61.1	14.7
Dynamic	179.2	38.3	65.2	60.9	16.1
Fortitude	177.6	35.9	67.9	61.4	15.4
Precision	177.6	38.2	64.7	61.4	15.9
Vivid	177.6	37.7	64.8	61.4	15.9
MT112219	<u>173.7</u>	<u>28.8</u>	66.7	62.9	<u>13.9</u>
MTD16001	179.4	37.9	73.2	61.0	14.2
MTD16002	180.8	40.0	65.1	61.1	14.8
MTD16003	177.5	37.6	64.4	61.7	14.0
MTD16004	177.3	36.8	71.1	62.4	14.6
MTD16005	179.8	38.9	66.3	60.7	15.1
MTD16006	178.3	40.4	70.3	61.4	14.6
MTD16007	178.5	37.5	67.6	61.9	15.0
MTD16008	177.5	38.7	60.1	59.5	15.7
MTD16009	180.2	38.9	<u>58.9</u>	<u>57.5</u>	16.0
MTD16010	179.0	39.8	65.2	62.1	15.2
MTD16011	179.6	38.4	63.7	60.6	15.3
Mean	178.0	37.4	65.4	61.2	15.1
CV%	0.50	3.6	10.4	1.5	4.1
LSD (P=0.05)	0.50	0.8	3.9	0.5	0.4
Prob > F	<0.001	<0.001	<0.001	<0.001	<0.001

¹Reported on a 13% moisture basis

²Reported on a 12% moisture basis

Underline/Bold = Highest values, underline = lowest

CONTINUED ON PAGE B7

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714 acres with approximately 430 acres irrigated hay land, 2 building sites with homes, barns and good corrals, and a working feedlot. All located along the Milk River and East of Chinook, MT. Good whitetail deer and pheasant hunting. More land could be available. Total price is **\$1,400,000**.

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2018 Montana Durum Variety trials

CONTINUED FROM PAGE B6

Table 5. Agronomic means from 2018 irrigated intrastate durum trial conducted by Giroux/Hogg at the Post Agronomy Farm in Bozeman, MT.

Line	Flowering (Julian)	Plant height (in)	Yield (bu/ac) ¹	Protein (%) ²	Hardness ³	Kernel diameter (mm) ³	Kernel weight (mg) ³
Mountrail	187.7	44.0	121.1	14.2	77.0	3.0	40.7
Divide	187.7	46.3	121.0	14.8	74.6	3.1	42.9
Alkabo	186.0	42.0	125.0	13.8	74.4	3.1	42.2
Grenora	185.3	42.1	126.6	14.3	74.6	3.1	44.9
Tioga	187.3	46.2	117.6	14.5	71.5	3.2	47.1
Carpio	188.0	42.7	124.6	13.8	73.5	3.2	43.9
Joppa	186.3	44.8	116.6	14.0	77.4	3.0	42.3
Alzada	<u>184.0</u>	31.9	<u>102.6</u>	14.4	74.8	3.3	46.8
Dynamic	188.3	43.3	124.0	15.2	80.5	3.1	41.2
Fortitude	187.7	42.8	126.0	15.0	82.5	3.0	<u>39.1</u>
Precision	187.7	43.6	124.8	15.1	79.4	3.1	42.1
Vivid	187.3	44.5	131.2	15.2	77.1	3.1	45.3
MT112219	184.0	<u>31.4</u>	116.9	13.3	78.5	3.0	41.1
MTD16001	188.0	43.7	129.5	13.6	75.4	3.1	43.9
MTD16002	188.0	46.6	119.8	14.9	78.0	3.0	40.1
MTD16003	186.7	44.1	124.7	<u>12.4</u>	77.1	3.0	41.1
MTD16004	187.7	43.7	122.7	14.3	79.4	3.1	41.5
MTD16005	188.3	44.2	119.7	14.6	72.6	3.1	43.2
MTD16006	187.7	45.8	117.5	14.5	<u>69.4</u>	3.1	46.4
MTD16007	188.3	42.5	117.4	14.5	76.9	3.1	41.9
MTD16008	186.7	45.4	122.2	14.9	71.8	3.1	45.5
MTD16009	188.0	45.7	127.1	15.7	76.0	3.0	40.7
MTD16010	188.0	44.1	123.0	14.6	81.1	3.1	41.1
MTD16011	188.3	43.8	119.6	14.9	74.9	3.0	42.4
Mean	187.2	43.1	121.7	14.4	76.2	3.1	42.8
CV (%)	0.2	3.0	3.9	1.5	3.3	2.2	4.9
LSD (P=0.05)	0.7	2.1	7.9	0.4	4.2	0.1	3.4
Prob > F	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

¹Reported on a 13% moisture basis

²Reported on a 12% moisture basis

³Determined using Single Kernel Characterization System

Underline/Bold = Highest values, underline = lowest

CONTINUED ON PAGE C3

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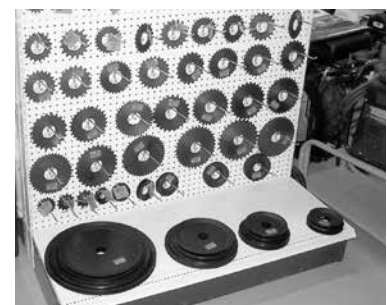
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2018 Montana Durum Variety trials

CONTINUED FROM PAGE B7

Table 6. Agronomic means from 2018 rainfed intrastate durum trial conducted by Giroux/Hogg at the Post Agronomy Farm in Bozeman, MT.

Line	Flowering (Julian)	Plant height (in)	Yield (bu/ac) ¹	Protein (%) ²	Hardness ³	Kernel diameter (mm) ³	Kernel weight (mg) ³
Mountrail	187.3	41.5	119.1	13.9	79.7	2.9	38.5
Divide	188.0	43.0	113.0	14.2	76.8	3.0	38.8
Alkabo	186.3	42.4	114.3	13.3	74.6	3.0	41.9
Grenora	186.3	40.7	113.8	13.8	78.5	3.0	41.5
Tioga	187.7	44.4	109.2	14.0	76.5	3.1	42.0
Carpio	188.0	40.6	112.0	13.4	<u>71.6</u>	3.2	44.0
Joppa	187.0	41.6	106.5	13.5	79.0	3.0	39.3
Alzada	<u>184.0</u>	<u>29.8</u>	<u>97.1</u>	14.4	78.4	3.1	41.5
Dynamic	188.3	41.6	113.8	15.3	80.2	3.0	39.5
Fortitude	188.0	38.8	112.5	14.6	78.7	3.0	38.9
Precision	187.7	42.5	116.7	14.5	79.4	3.0	40.5
Vivid	188.0	44.0	111.6	15.1	78.9	3.0	40.6
MT112219	184.0	30.1	99.6	13.5	79.1	2.9	39.5
MTD16001	188.0	40.7	119.6	13.5	76.6	3.0	40.5
MTD16002	188.7	44.1	112.1	14.0	79.1	2.9	38.2
MTD16003	187.7	40.2	103.3	<u>12.4</u>	80.5	<u>2.9</u>	<u>36.1</u>
MTD16004	187.3	41.9	127.2	13.6	80.5	3.0	38.2
MTD16005	188.3	41.5	112.0	14.2	74.4	3.0	41.3
MTD16006	188.0	43.8	109.7	14.0	73.2	3.0	43.4
MTD16007	188.0	40.8	109.1	14.1	76.6	3.1	39.9
MTD16008	188.0	44.0	110.6	14.3	73.3	3.1	42.4
MTD16009	188.3	43.4	101.5	15.0	79.0	2.9	37.5
MTD16010	188.3	43.3	106.8	14.3	81.2	3.0	39.2
MTD16011	189.0	42.0	111.3	14.3	78.2	2.9	39.1
Mean	187.5	41.2	110.9	14.1	77.7	3.0	40.1
CV (%)	0.2	2.2	8.0	1.5	3.0	1.9	4.1
LSD (P=0.05)	0.6	1.5	NS	0.3	3.8	0.1	2.7
Prob > F	<0.001	<0.001	0.080	<0.001	<0.001	<0.001	<0.001

¹Reported on a 13% moisture basis

²Reported on a 12% moisture basis

³Determined using Single Kernel Characterization System

NS = No significant difference based on ANOVA $p < 0.05$

Underline/Bold = Highest values, underline = lowest

Table 7. Agronomic means from 2018 rainfed intrastate durum trial conducted at Southern Agricultural Research Center Huntley, MT.

Line	Heading (Julian)	Plant height (in)	Yield (bu/ac) ¹	Test weight (lb/bu)	Protein (%) ²
Mountrail	174.7	45.2	65.4	59.7	15.9
Divide	177.1	47.8	66.2	60.6	16.1
Alkabo	173.0	44.3	65.8	61.6	15.5
Grenora	173.0	43.7	58.0	58.6	16.2
Tioga	176.4	46.2	57.1	59.5	16.6
Carpio	177.9	45.0	64.5	59.5	15.5
Joppa	173.3	47.1	65.1	60.1	15.7
Alzada	169.3	33.8	<u>56.2</u>	58.0	16.2
CDC Dynamic	177.6	45.2	56.4	59.6	17.5
CDC Fortitude	174.4	42.8	65.5	60.5	16.6
CDC Precision	174.6	45.1	64.0	60.2	17.0
CDC Vivid	173.0	44.2	61.3	60.4	17.2
MT112219	<u>168.6</u>	<u>33.2</u>	59.3	60.3	15.1
MTD16001	176.5	43.5	74.7	60.4	14.7
MTD16002	178.2	45.8	62.2	59.8	15.8
MTD16003	173.6	45.8	70.8	61.1	<u>14.1</u>
MTD16004	173.6	43.3	70.1	61.5	15.9
MTD16005	178.7	46.5	57.4	58.1	16.8
MTD16006	176.3	48.2	67.9	59.5	15.7
MTD16007	177.5	43.7	65.8	60.4	16.2
MTD16008	174.8	47.1	60.7	57.4	16.6
MTD16009	178.6	45.6	56.4	<u>55.0</u>	16.8
MTD16010	176.3	48.2	62.6	61.4	15.6
MTD16011	178.3	44.9	58.6	59.3	16.7
Mean	175.2	44.4	63.0	59.7	16.1
CV%	0.5	3.5	9.4	1.7	2.8
LSD (P=0.05)	1.6	2.6	10.9	1.8	0.8
Prob > F	<0.001	<0.001	0.034	<0.001	<0.001

¹Reported on a 13% moisture basis

²Reported on a 12% moisture basis

Underline/Bold = Highest values, underline = lowest

CONTINUED ON PAGE C4

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Espresso macchiato is a cup of espresso “marked” with a spoonful of the foam from steamed milk, whereas latte macchiato is a cup of steamed milk “marked” with a small dash of espresso.

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A hot rock from the campfire placed at the bottom of your sleeping bag will keep your feet warm on chilly nights. A hot enchilada works well too, if you don’t mind the cheese sticking between your toes.

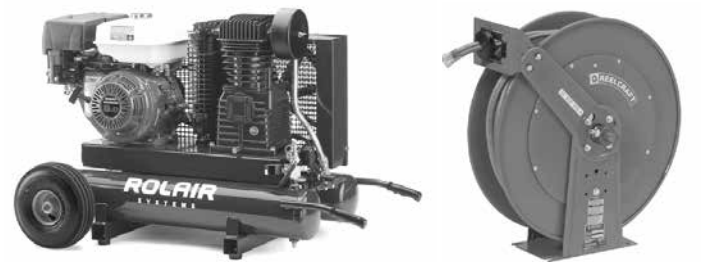
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2018 Montana Durum Variety trials

CONTINUED FROM PAGE C3

Table 8. Agronomic means from 2018 irrigated intrastate durum trial conducted at Eastern Agricultural Research Center Sidney, MT.

Line	Heading (Julian)	Plant height (in)	Yield (bu/ac) ¹	Test weight (lb/bu)	Protein (%) ²
Mountrail	179.3	35.8	100.0	63.3	15.4
Divide	182.3	38.7	105.0	64.3	14.6
Alkabo	178.0	34.6	93.2	63.3	14.7
Grenora	178.0	34.4	107.9	62.8	14.6
Tioga	179.0	37.8	106.6	63.3	15.4
Carpio	180.0	35.8	102.8	64.1	14.8
Joppa	178.3	37.9	95.7	63.5	15.0
Alzada	<u>176.0</u>	<u>25.9</u>	<u>77.6</u>	<u>60.0</u>	15.3
Dynamic	183.0	37.3	113.7	64.8	15.4
Fortitude	179.0	31.0	102.2	62.4	15.6
Precision	179.0	36.6	104.6	63.9	15.5
Vivid	179.0	34.6	93.6	63.6	15.9
MT112219	176.3	26.4	84.0	61.9	14.2
MTD16001	182.7	36.2	111.7	63.5	14.4
MTD16002	183.0	43.7	99.9	63.2	15.3
MTD16003	179.0	35.3	105.2	64.6	<u>13.4</u>
MTD16004	178.3	34.6	97.4	63.8	15.3
MTD16005	183.0	36.6	102.5	63.7	14.6
MTD16006	182.0	37.1	99.8	63.3	15.2
MTD16007	178.7	34.6	106.3	64.4	15.3
MTD16008	178.7	36.2	105.1	62.5	15.3
MTD16009	182.7	37.9	105.6	61.6	15.4
MTD16010	182.3	37.1	101.7	64.5	15.3
MTD16011	182.7	37.1	89.8	63.5	14.7
Mean	180.0	35.6	100.5	63.3	15.0
CV (%)	0.4	3.5	9.5	0.5	2.8
LSD (P=0.05)	1.3	2.1	15.8	0.5	0.7
Prob > F	<0.001	<0.001	0.009	<0.001	<0.001

¹Reported on a 13% moisture basis

²Reported on a 12% moisture basis

Underline/Bold = Highest values, underline = lowest

Table 9. Agronomic means from 2018 rainfed intrastate durum trial conducted at Eastern Agricultural Research Center Sidney, MT.

Line	Heading (Julian)	Plant height (in)	Yield (bu/ac) ¹	Test weight (lb/bu)	Protein (%) ²
Mountrail	177.0	36.4	64.2	64.4	14.3
Divide	177.7	39.8	62.7	64.0	14.3
Alkabo	176.7	37.1	60.4	64.5	14.6
Grenora	176.0	35.3	65.9	63.7	14.8
Tioga	176.3	38.3	65.7	64.5	14.1
Carpio	177.3	35.8	65.2	64.7	14.4
Joppa	176.7	37.9	61.0	64.6	14.2
Alzada	<u>172.0</u>	29.8	58.1	64.1	13.8
Dynamic	178.0	38.3	66.5	64.7	13.9
Fortitude	176.3	34.1	62.6	63.9	14.3
Precision	177.3	37.9	62.4	64.5	14.4
Vivid	177.0	35.6	65.1	64.1	15.3
MT112219	172.3	<u>26.6</u>	61.6	65.7	13.3
MTD16001	177.7	37.4	67.9	64.1	12.9
MTD16002	179.3	39.1	66.5	64.1	14.1
MTD16003	176.3	36.0	60.4	64.5	13.1
MTD16004	176.7	36.1	62.6	65.3	13.1
MTD16005	178.0	37.0	60.0	63.4	13.7
MTD16006	177.7	36.9	58.8	63.8	13.9
MTD16007	177.0	35.6	<u>57.3</u>	64.5	14.1
MTD16008	176.3	36.1	62.5	62.8	14.1
MTD16009	178.0	38.8	59.9	60.7	15.1
MTD16010	178.0	37.7	57.5	64.2	15.2
MTD16011	178.0	36.5	58.1	63.7	13.5
Mean	176.8	36.3	62.2	64.1	14.1
CV (%)	0.4	3.7	6.4	6.3	0.5
LSD (P=0.05)	1.1	2.2	6.5	0.5	NS
Prob > F	<0.001	<0.001	0.036	<0.001	0.096

¹Reported on a 13% moisture basis

²Reported on a 12% moisture basis

NS = No significant difference based on ANOVA $p < 0.05$

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CONTINUED ON PAGE C6

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2018 Montana Durum Variety trials

CONTINUED FROM PAGE C4

Table 10. Agronomic means from 2018 rainfed intrastate durum trial at Central Agricultural Research Center in Moccasin, MT

Line	Heading (Julian)	Plant height (in)	Yield (bu/ac) ¹	Test weight (lb/bu)	Protein (%) ²
Mountrail	178.0	37.0	50.9	62.0	10.3
Divide	178.0	37.7	46.8	62.1	10.7
Alkabo	177.3	35.3	51.7	61.8	10.8
Grenora	177.3	34.0	53.9	61.7	<u>9.8</u>
Tioga	177.3	39.7	46.0	61.6	11.8
Carpio	178.3	37.3	49.1	60.6	11.2
Joppa	<u>177.0</u>	38.3	47.5	62.0	10.9
Alzada	177.0	32.3	51.3	62.4	10.6
Dynamic	178.7	37.0	49.2	61.5	11.8
Fortitude	177.3	35.7	56.2	62.2	10.7
Precision	177.0	36.7	52.1	62.3	11.3
Vivid	177.3	36.0	51.7	62.0	10.9
MT112219	177.0	<u>30.3</u>	54.8	63.4	10.3
MTD16001	178.7	38.0	53.8	60.8	10.5
MTD16002	180.0	38.7	50.8	61.8	10.1
MTD16003	178.0	38.0	47.6	61.8	11.7
MTD16004	177.3	36.7	53.8	63.2	10.9
MTD16005	178.3	38.3	54.9	61.6	<u>9.8</u>
MTD16006	177.3	39.7	56.6	61.9	11.1
MTD16007	178.0	37.7	52.2	62.5	10.8
MTD16008	177.7	37.0	<u>40.6</u>	60.9	12.6
MTD16009	178.7	38.7	48.4	<u>58.8</u>	11.2
MTD16010	178.3	38.0	44.6	61.9	12.0
MTD16011	178.0	38.3	49.9	61.3	10.3
Mean	177.8	37.0	50.5	61.7	10.9
CV (%)	0.4	2.5	8.4	0.8	6.9
LSD (P=0.05)	1.2	1.5	7.0	0.8	1.2
Prob > F	<0.001	<0.001	0.005	<0.001	0.003

¹Reported on a 13% moisture basis
²Reported on a 12% moisture basis
 Underline/Bold = Highest values, underline = lowest

Table 11. Agronomic means from 2018 rainfed intrastate durum trial at Northern Agricultural Research Center in Havre, MT.

Line	Heading (Julian)	Plant height (in)	Yield (bu/ac) ¹	Test weight (lb/bu)	Protein (%) ²	Falling number (s) ³
Mountrail	176.0	26.3	38.2	58.8	18.4	365.0
Divide	176.7	32.3	41.1	59.7	17.8	361.0
Alkabo	175.3	29.9	41.3	59.6	17.2	365.1
Grenora	175.0	30.4	40.2	58.2	17.7	377.0
Tioga	175.3	33.1	40.3	58.3	18.7	374.5
Carpio	176.0	29.4	<u>35.8</u>	57.4	18.6	364.9
Joppa	174.7	29.7	41.1	59.7	17.5	358.9
Alzada	172.0	<u>25.6</u>	37.9	59.3	17.3	398.0
Dynamic	175.7	31.4	41.2	57.5	19.3	<u>328.2</u>
Fortitude	176.0	29.4	37.9	58.3	18.6	347.7
Precision	175.3	31.3	39.5	57.9	18.7	371.0
Vivid	175.7	32.4	40.5	58.1	18.8	363.1
MT112219	<u>171.3</u>	25.8	48.4	61.1	<u>16.3</u>	371.0
MTD16001	178.0	32.3	44.6	57.9	17.7	352.8
MTD16002	179.0	35.2	45.8	58.6	17.5	368.8
MTD16003	175.0	31.5	41.2	59.1	17.0	362.3
MTD16004	174.7	29.5	43.8	59.8	17.6	335.7
MTD16005	177.0	31.9	41.1	58.0	18.8	354.1
MTD16006	175.7	34.4	42.2	59.0	17.7	353.2
MTD16007	175.0	32.1	44.2	58.3	18.1	362.9
MTD16008	173.7	32.8	40.0	57.9	17.8	350.4
MTD16009	178.7	33.8	39.7	<u>54.8</u>	18.8	354.4
MTD16010	176.0	32.8	39.4	58.5	18.1	360.0
MTD16011	178.0	32.2	45.1	58.7	18.0	368.2
Mean	175.7	31.1	41.3	58.5	18.0	361.2
CV (%)	0.5	5.7	6.7	0.7	1.7	2.7
LSD (P=0.05)	1.4	2.9	4.5	0.7	0.5	16.3
Prob > F	<0.001	<0.001	0.003	<0.001	<0.001	<0.001

¹Reported on a 13% moisture basis
²Reported on a 12% moisture basis
³Reported on a 14% moisture basis
 Underline/Bold = Highest values, underline = lowest

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2018 Montana Durum Variety trials

CONTINUED FROM PAGE C6

Table 12. Agronomic means from 2018 rainfed intrastate durum trial at Western Triangle Agricultural Research Center in Conrad, MT.

Line	Heading (Julian)	Plant height (in)	Yield (bu/ac) ¹	Test weight (lb/bu)	Protein (%) ²	Lodging (%)
Mountrail	177.7	31.3	69.0	59.8	15.3	2.7
Divide	179.3	33.0	<u>53.6</u>	60.2	16.4	1.7
Alkabo	176.3	32.3	64.2	60.8	15.3	8.0
Grenora	174.0	30.7	62.3	60.1	15.6	5.7
Tioga	178.0	33.7	58.4	59.3	17.1	4.0
Carpio	178.7	33.0	70.2	60.0	15.0	4.7
Joppa	176.7	32.3	63.9	60.7	15.2	8.0
Alzada	174.3	28.0	70.8	61.1	14.7	5.7
Dynamic	178.3	34.0	69.0	59.2	16.6	8.7
Fortitude	177.3	31.7	72.4	60.8	15.9	2.0
Precision	177.3	33.3	59.9	60.4	17.1	3.7
Vivid	178.3	32.7	62.5	60.7	16.5	2.3
MT112219	<u>174.0</u>	<u>25.7</u>	73.0	63.0	<u>13.9</u>	<u>1.3</u>
MTD16001	180.0	34.0	72.0	59.7	15.1	1.7
MTD16002	181.3	35.7	59.3	60.0	15.8	2.0
MTD16003	177.7	32.0	62.2	60.8	14.6	4.0
MTD16004	177.7	32.0	72.9	61.7	14.9	15.0
MTD16005	179.7	34.7	70.3	60.8	15.4	4.7
MTD16006	177.7	36.0	79.4	61.5	14.6	10.0
MTD16007	177.3	33.0	73.8	61.9	15.4	6.7
MTD16008	177.3	32.7	53.9	58.4	16.6	5.7
MTD16009	180.3	32.7	55.2	<u>56.5</u>	16.9	4.3
MTD16010	179.3	35.3	72.8	61.7	15.6	5.7
MTD16011	178.7	34.3	63.1	59.3	16.5	5.0
Mean	177.8	32.7	66.0	60.4	15.7	5.1
CV (%)	0.6	4.7	15.0	1.5	5.2	79.3
LSD (P=0.05)	1.9	2.5	NS	1.6	1.3	7.1
Prob > F	<0.001	<0.001	0.109	<0.001	<0.001	0.043

¹Reported on a 13% moisture basis

²Reported on a 12% moisture basis

NS = No significant difference based on ANOVA *p*<0.05

Underline/Bold = Highest values, underline = lowest

Table 13. USDA-ARS seed quality means from all locations (n=8) for 2018 intrastate durum trial.

Line	Test weight (lb/bu)	Kernel weight (mg)	Kernel diameter (mm)	Large kernels (%)	Small kernels (%)	Hardness	Wheat protein (%) ¹
Mountrail	61.3	40.9	2.8	54.5	10.9	74.8	14.4
Divide	61.8	42.2	2.8	63.9	9.0	73.1	14.9
Alkabo	62.1	43.1	2.8	64.4	8.3	73.2	14.5
Grenora	60.9	42.5	2.8	63.3	8.4	75.5	14.6
Tioga	61.6	43.9	2.9	68.3	7.0	<u>72.3</u>	15.2
Carpio	61.4	42.4	2.9	67.9	8.4	72.8	14.3
Joppa	61.8	41.9	2.8	62.8	8.3	76.4	14.5
Alzada	60.9	45.0	3.0	81.5	<u>3.5</u>	73.5	14.6
Dynamic	61.4	39.5	2.8	56.3	10.0	78.9	15.6
Fortitude	61.4	38.2	2.8	63.1	9.4	81.4	15.1
Precision	62.0	40.2	2.8	66.5	7.3	82.1	14.9
Vivid	61.7	40.8	2.8	68.5	7.6	77.8	15.6
MT112219	62.7	40.7	2.8	68.6	8.4	77.1	13.7
MTD16001	61.1	41.6	2.8	58.4	9.8	77.6	13.9
MTD16002	61.4	38.8	2.8	53.4	10.6	82.1	14.6
MTD16003	61.9	38.9	2.8	57.9	11.1	77.2	<u>13.7</u>
MTD16004	62.4	40.3	2.9	70.3	7.0	79.2	14.4
MTD16005	61.0	41.7	2.8	58.0	9.4	74.4	14.7
MTD16006	61.5	44.3	2.9	70.5	6.3	74.8	14.4
MTD16007	61.9	38.9	2.8	58.8	8.8	78.0	14.9
MTD16008	59.9	42.9	2.8	70.9	6.8	72.6	14.9
MTD16009	<u>57.9</u>	38.3	<u>2.7</u>	<u>49.1</u>	11.6	73.8	15.7
MTD16010	62.1	<u>37.7</u>	2.7	54.9	10.9	83.2	15.1
MTD16011	60.9	40.6	2.7	49.9	12.6	74.5	14.8
Mean	61.4	41.1	2.8	62.6	8.8	76.5	14.7
CV (%)	1.3	4.3	2.4	13.0	33.2	2.9	3.7
LSD (0.05)	0.8	1.7	0.1	8.0	2.9	2.2	0.5
F > Prob	>0.001	>0.001	>0.001	>0.001	>0.001	>0.001	>0.001

¹Reported on a 12% moisture basis

Underline/Bold = Highest values, underline = lowest

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2018 Montana Durum Variety trials

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Table 14. USDA-ARS semolina quality means from all locations (n=8) for 2018 intrastate durum trial.

Line	Milling yield (%)	Semolina L*	Semolina b*	Mixograph pattern	Grain ash (%) ¹	Falling number (s)	Semolina protein (%) ¹	Semolina ash (%) ¹
Mountrail	62.9	85.4	25.3	3.0	1.5	421.1	13.5	0.7
Divide	62.5	85.2	27.1	5.0	1.4	419.5	13.3	0.6
Alkabo	62.1	85.1	29.2	4.3	1.5	402.1	13.0	0.6
Grenora	61.2	85.2	28.5	4.4	1.5	417.3	13.2	0.7
Tioga	62.7	85.1	28.8	5.5	1.6	400.1	13.9	0.6
Carpio	62.3	85.0	30.5	6.5	1.5	424.4	13.2	0.6
Joppa	62.0	85.0	29.0	5.6	1.5	411.6	13.2	0.6
Alzada	62.7	84.4	30.7	6.6	1.6	439.8	13.2	0.7
Dynamic	61.7	84.5	31.7	5.5	1.6	400.0	14.1	0.7
Fortitude	60.3	84.9	31.1	5.9	1.6	409.8	13.6	0.7
Precision	60.3	84.9	31.8	5.5	1.6	429.6	13.7	0.7
Vivid	61.9	84.6	31.6	5.6	1.5	391.4	13.9	0.7
MT112219	63.2	84.4	27.5	5.3	1.5	404.5	12.5	0.7
MTD16001	62.7	85.3	27.7	4.4	1.4	395.0	12.7	0.6
MTD16002	60.7	85.1	27.5	3.9	1.4	421.5	13.3	0.6
MTD16003	63.3	85.2	26.5	3.8	1.4	418.4	12.2	0.6
MTD16004	61.0	85.0	24.6	4.0	1.5	414.8	13.0	0.6
MTD16005	61.8	85.0	28.4	4.9	1.4	415.3	13.4	0.6
MTD16006	61.7	85.1	24.9	4.8	1.5	407.9	13.2	0.6
MTD16007	61.1	85.3	21.8	4.9	1.5	410.5	13.5	0.6
MTD16008	61.3	83.8	26.5	4.4	1.5	421.3	13.7	0.7
MTD16009	59.1	84.6	25.5	5.1	1.6	398.5	14.5	0.7
MTD16010	61.5	85.0	26.3	4.9	1.5	434.0	13.8	0.6
MTD16011	61.9	84.8	28.8	4.6	1.5	428.8	13.5	0.6
Mean	61.8	84.9	28.0	4.9	1.5	413.8	13.3	0.6
CV (%)	1.5	0.3	2.2	13.7	3.5	5.1	3.8	4.9
LSD (0.05)	0.9	0.3	0.6	0.7	0.1	21.0	0.5	0.03
F > Prob	>0.001	>0.001	>0.001	>0.001	>0.001	>0.001	>0.001	>0.001

¹Reported on a 14% moisture basis

Underline/Bold = Highest values, underline = lowest

Table 15. USDA-ARS seed quality means for Bozeman rainfed for 2018 intrastate durum trial.

Line	Test weight (lb/bu)	Kernel weight (mg)	Kernel diameter (mm)	Large kernels (%)	Small kernels (%)	Hardness	Wheat protein (%) ¹
Mountrail	63.0	41.5	2.84	73	5	76.0	13.7
Divide	62.9	43.4	2.94	81	4	74.0	14.1
Alkabo	64.1	45.9	2.96	85	3	72.0	13.6
Grenora	63.0	45.2	3.01	82	3	76.7	13.9
Tioga	63.8	47.0	3.06	88	2	73.5	14.1
Carpio	63.4	46.4	3.03	89	2	71.6	13.5
Joppa	63.2	44.8	2.92	81	3	74.8	13.6
Alzada	62.6	48.2	3.16	92	2	73.9	14.2
Dynamic	63.0	42.5	2.91	80	4	76.6	15.5
Fortitude	62.7	43.7	2.99	82	4	75.2	14.9
Precision	62.8	43.0	2.92	82	2	80.7	14.3
Vivid	63.4	43.0	2.92	85	2	77.7	15.5
MT112219	64.2	43.4	2.95	83	4	77.6	13.6
MTD16001	62.0	43.9	2.93	78	4	76.0	13.3
MTD16002	62.3	41.2	2.87	72	4	77.8	14.0
MTD16003	63.8	41.8	2.93	76	5	76.2	12.8
MTD16004	63.5	43.4	3.01	86	2	77.5	13.9
MTD16005	62.0	44.7	2.94	78	3	72.5	14.2
MTD16006	62.8	48.0	3.03	86	2	71.5	13.7
MTD16007	63.8	42.4	2.92	80	3	76.3	13.9
MTD16008	61.3	45.6	2.97	86	2	71.6	14.0
MTD16009	60.6	43.5	2.94	79	4	74.5	14.7
MTD16010	63.5	41.2	2.90	77	4	81.9	14.4
MTD16011	62.4	43.5	2.88	70	5	75.0	14.5

¹Reported on a 12% moisture basis

CONTINUED ON PAGE C16

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“Whatever form it takes, camping is earthy, soul enriching and character building, and there can be few such satisfying moments as having your tent pitched and the smoke rising from your campfire as the golden sun sets on the horizon—even if it’s just for a fleeting moment before the rain spoils everything.”

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#####

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2018 Montana Durum Variety trials

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Table 16. USDA-ARS semolina quality means from Bozeman rainfed for 2018 intrastate durum trial.

Line	Milling yield (%)	Semolina L*	Semolina b*	Mixograph pattern	Grain ash (%) ¹	Falling number (s)	Semolina protein (%) ¹	Semolina ash (%) ¹
Mountrail	65.2	85.2	24.7	3	1.27	393	12.6	0.58
Divide	64.6	85.0	27.9	4	1.20	387	12.8	0.57
Alkabo	63.6	85.1	29.1	3	1.25	351	12.2	0.52
Grenora	63.2	84.9	28.5	4	1.31	370	12.4	0.54
Tioga	64.5	85.1	29.5	5	1.30	354	12.7	0.54
Carpio	65.1	85.3	31.8	5	1.20	377	12.2	0.55
Joppa	63.5	85.0	29.4	4	1.28	383	12.3	0.56
Alzada	63.6	84.4	30.3	6	1.35	426	13.1	0.65
Dynamic	64.0	84.5	32.5	4	1.37	382	13.8	0.57
Fortitude	61.7	85.2	30.8	4	1.29	357	13.2	0.57
Precision	60.9	85.0	31.4	4	1.37	389	13.0	0.62
Vivid	62.9	84.9	31.7	4	1.31	359	13.7	0.61
MT112219	63.5	84.1	27.2	5	1.35	365	12.3	0.65
MTD16001	63.9	84.9	28.2	4	1.21	345	12.2	0.54
MTD16002	61.9	84.4	27.8	4	1.26	341	12.8	0.56
MTD16003	64.9	85.1	27.6	3	1.17	389	11.2	0.50
MTD16004	62.5	84.7	24.7	3	1.28	346	12.4	0.52
MTD16005	62.1	84.8	29.7	4	1.29	364	12.8	0.54
MTD16006	62.9	85.1	25.3	4	1.26	376	12.7	0.51
MTD16007	62.8	85.4	22.1	3	1.27	381	12.6	0.54
MTD16008	61.8	84.2	27.3	3	1.26	376	12.8	0.55
MTD16009	60.7	84.8	25.6	4	1.34	356	13.6	0.59
MTD16010	62.4	85.1	26.7	4	1.33	398	13.0	0.53
MTD16011	62.3	84.8	30.2	4	1.21	389	13.0	0.56

¹Reported on a 14% moisture basis

Table 17. USDA-ARS seed quality means for Bozeman irrigated for 2018 intrastate durum trial.

Line	Test weight (lb/bu)	Kernel weight (mg)	Kernel diameter (mm)	Large kernels (%)	Small kernels (%)	Hardness	Wheat protein (%) ¹
Mountrail	62.6	43.9	2.95	77	5	75.0	14.0
Divide	63.0	47.6	3.05	89	3	71.9	14.8
Alkabo	63.4	47.9	3.03	88	3	69.2	13.9
Grenora	62.4	49.9	3.12	91	2	73.4	14.2
Tioga	63.5	52.8	3.23	92	1	68.8	14.6
Carpio	63.4	49.5	3.13	93	2	71.7	14.2
Joppa	63.3	47.5	3.05	85	3	72.7	14.1
Alzada	63.4	52.0	3.26	94	1	70.5	14.8
Dynamic	62.6	45.7	3.02	85	3	74.9	15.0
Fortitude	62.7	43.0	3.04	88	4	78.1	14.8
Precision	63.4	45.9	3.05	91	2	79.1	14.8
Vivid	63.4	48.0	3.11	93	2	76.2	15.6
MT112219	64.4	44.0	2.98	86	4	76.6	13.4
MTD16001	62.6	49.0	3.06	88	3	73.3	13.6
MTD16002	62.2	43.7	2.96	85	3	77.9	14.7
MTD16003	64.1	45.7	3.05	87	3	76.1	12.6
MTD16004	63.5	44.6	3.06	91	2	76.3	14.0
MTD16005	62.4	46.7	2.99	84	4	72.0	14.7
MTD16006	62.8	52.2	3.13	93	1	70.1	14.7
MTD16007	63.5	45.0	3.02	86	2	74.5	14.4
MTD16008	61.6	49.6	3.09	91	2	70.4	14.5
MTD16009	60.6	44.1	2.98	86	3	73.5	16.2
MTD16010	63.5	43.8	2.99	83	3	81.6	14.7
MTD16011	63.0	47.8	3.01	87	2	72.4	14.9

¹Reported on a 12% moisture basis

Table 18. USDA-ARS semolina quality means from Bozeman irrigated for 2018 intrastate durum trial.

Line	Milling yield (%)	Semolina L*	Semolina b*	Mixograph pattern	Grain ash (%) ¹	Falling number (s)	Semolina protein (%) ¹	Semolina ash (%) ¹
Mountrail	63.4	85.7	24.5	3	1.37	402	13.0	0.63
Divide	62.8	85.2	27.3	4	1.33	387	13.4	0.58
Alkabo	62.0	85.6	28.7	3	1.34	369	12.6	0.55
Grenora	62.2	85.5	27.9	4	1.42	398	13.1	0.61
Tioga	64.5	85.5	28.4	4	1.42	357	13.4	0.57
Carpio	64.5	85.3	30.9	6	1.29	401	12.8	0.58
Joppa	63.3	85.0	28.8	4	1.37	407	12.6	0.57
Alzada	63.4	84.9	29.6	6	1.51	431	13.2	0.68
Dynamic	63.9	84.8	32.3	5	1.43	353	13.8	0.60
Fortitude	62.7	85.5	31.1	6	1.41	381	13.6	0.59
Precision	61.2	85.2	30.9	6	1.51	398	13.5	0.61
Vivid	64.0	84.8	31.3	5	1.43	339	13.8	0.61
MT112219	64.0	84.8	26.6	4	1.41	419	12.3	0.65
MTD16001	64.8	85.6	27.1	4	1.32	375	12.4	0.52
MTD16002	62.0	85.1	26.8	3	1.36	374	13.7	0.55
MTD16003	66.1	85.6	26.7	3	1.28	388	11.2	0.55
MTD16004	62.9	85.2	24.0	3	1.39	372	12.8	0.60
MTD16005	63.8	85.4	28.6	4	1.27	399	13.4	0.57
MTD16006	62.8	85.5	24.0	3	1.38	372	13.2	0.57
MTD16007	62.9	85.8	21.3	3	1.30	393	13.2	0.56
MTD16008	61.8	84.3	26.5	3	1.45	344	13.5	0.59
MTD16009	61.0	85.1	25.1	4	1.44	328	14.8	0.62
MTD16010	64.4	85.2	25.4	4	1.39	379	13.6	0.56
MTD16011	65.5	85.2	28.7	4	1.29	386	13.7	0.60

¹Reported on a 14% moisture basis

CONTINUED ON PAGE C20

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2018 Montana Durum varietal trials

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Table 25. USDA-ARS seed quality means from CARC for 2018 intrastate durum trial.

Line	Test weight (lb/bu)	Kernel weight (mg)	Kernel diameter (mm)	Large kernels (%)	Small kernels (%)	Hardness	Wheat protein (%) ¹
Mountrail	62.5	39.8	2.75	49	13	77.8	10.2
Divide	63.0	42.6	2.86	71	7	69.8	10.8
Alkabo	62.2	41.0	2.77	62	9	74.5	10.8
Grenora	62.4	40.9	2.78	61	8	74.6	9.8
Tioga	62.3	43.8	2.89	66	7	72.4	11.9
Carpio	61.0	39.2	2.69	54	12	74.4	11.0
Joppa	62.9	40.1	2.76	59	10	78.6	10.8
Alzada	62.9	45.1	2.97	81	4	78.3	10.8
Dynamic	62.1	38.0	2.68	50	11	85.0	11.9
Fortitude	62.8	36.5	2.73	64	9	87.4	10.7
Precision	62.8	38.9	2.76	67	7	84.9	10.9
Vivid	62.5	39.9	2.74	69	7	78.3	11.1
MT112219	64.2	42.5	2.88	75	7	76.9	10.6
MTD16001	61.3	38.8	2.70	48	13	78.8	10.5
MTD16002	62.5	39.2	2.73	47	13	83.0	9.9
MTD16003	62.6	39.1	2.73	62	9	75.8	11.7
MTD16004	63.8	39.4	2.76	67	8	83.5	11.0
MTD16005	62.2	40.5	2.75	59	9	77.4	10.0
MTD16006	62.7	44.6	2.89	68	8	80.3	11.3
MTD16007	63.0	37.9	2.72	60	7	81.4	10.6
MTD16008	61.3	43.3	2.82	67	7	76.6	12.0
MTD16009	59.0	37.0	2.65	46	12	74.3	11.3
MTD16010	62.9	36.4	2.67	50	11	85.9	12.0
MTD16011	62.2	40.2	2.74	49	11	78.0	10.3

¹Reported on a 12% moisture basis

Table 26. USDA-ARS semolina quality means from CARC for 2018 intrastate durum trial.

Line	Milling yield (%)	Semolina L*	Semolina b*	Mixograph pattern	Grain ash (%) ¹	Falling number (s)	Semolina protein (%) ¹	Semolina ash (%) ¹
Mountrail	63.3	86.4	25.0	3	1.41	414	9.3	0.66
Divide	62.3	86.4	26.9	4	1.43	398	9.5	0.61
Alkabo	61.3	86.1	28.8	4	1.46	414	9.5	0.66
Grenora	62.4	86.7	27.1	4	1.48	424	8.7	0.65
Tioga	63.1	86.1	29.1	6	1.55	430	10.9	0.64
Carpio	61.7	85.7	30.7	6	1.46	448	10.0	0.69
Joppa	63.7	85.7	28.0	6	1.57	402	9.8	0.67
Alzada	63.9	85.4	30.9	6	1.50	450	9.7	0.68
Dynamic	61.1	85.0	32.1	5	1.52	405	10.6	0.70
Fortitude	60.6	85.9	31.0	5	1.50	415	9.6	0.66
Precision	61.1	85.9	31.2	5	1.47	450	9.9	0.66
Vivid	61.7	85.8	31.4	6	1.52	386	9.8	0.67
MT112219	63.8	85.6	27.5	6	1.48	431	9.6	0.68
MTD16001	62.9	86.0	27.2	6	1.42	407	9.4	0.61
MTD16002	61.9	86.3	27.5	4	1.33	445	9.1	0.60
MTD16003	62.7	85.8	26.0	5	1.38	425	10.3	0.64
MTD16004	61.5	85.8	25.0	5	1.39	450	9.7	0.61
MTD16005	61.9	86.2	27.9	4	1.34	403	9.0	0.60
MTD16006	63.4	85.9	25.1	6	1.50	425	10.0	0.63
MTD16007	62.6	86.3	21.4	6	1.45	406	9.6	0.65
MTD16008	61.9	85.0	26.4	6	1.59	447	11.1	0.72
MTD16009	60.2	85.7	25.3	5	1.51	392	10.3	0.65
MTD16010	61.7	85.7	26.3	6	1.57	450	10.8	0.67
MTD16011	62.1	85.9	28.2	4	1.43	450	9.3	0.62

Table 27. USDA-ARS seed quality means from EARC rainfed for 2018 intrastate durum trial.

Line	Test weight (lb/bu)	Kernel weight (mg)	Kernel diameter (mm)	Large kernels (%)	Small kernels (%)	Hardness	Wheat protein (%) ¹
Mountrail	63.0	42.6	2.88	70	6	72.8	13.7
Divide	62.7	44.7	2.93	72	6	70.3	14.1
Alkabo	63.0	46.0	2.99	80	5	68.3	14.6
Grenora	62.6	46.3	3.01	81	3	72.2	14.4
Tioga	63.3	46.3	3.00	80	5	69.4	13.4
Carpio	62.8	43.9	2.94	78	4	70.9	14.1
Joppa	63.3	45.4	2.98	79	4	73.1	14.2
Alzada	62.2	48.6	3.18	92	2	68.2	14.0
Dynamic	63.3	40.9	2.89	72	6	77.4	13.8
Fortitude	62.6	39.5	2.86	68	8	78.8	14.3
Precision	63.1	40.4	2.82	72	6	79.0	14.1
Vivid	62.0	41.1	2.82	77	5	75.2	14.9
MT112219	63.9	44.7	3.03	83	4	71.2	12.9
MTD16001	62.3	43.9	2.95	69	6	72.8	12.7
MTD16002	62.7	39.9	2.81	66	7	80.4	13.9
MTD16003	62.8	39.6	2.79	62	8	75.3	13.3
MTD16004	63.8	43.1	3.00	82	4	76.4	12.6
MTD16005	61.8	41.9	2.81	59	8	73.2	13.3
MTD16006	62.2	42.8	2.89	77	4	74.6	13.8
MTD16007	63.1	39.5	2.81	62	7	78.1	14.4
MTD16008	60.7	42.2	2.84	74	6	72.1	13.8
MTD16009	58.7	37.3	2.71	44	10	76.1	14.6
MTD16010	62.7	38.8	2.81	64	6	80.0	14.8
MTD16011	61.5	41.0	2.78	55	10	74.3	13.3

¹Reported on a 12% moisture basis

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2018 Montana Durum variety trials

CONTINUED FROM PAGE C28

Table 28. USDA-ARS semolina quality means from EARC rainfed for 2018 intrastate durum trial.

Line	Milling yield (%)	Semolina L*	Semolina b*	Mixograph pattern	Grain ash (%) ¹	Falling number (s)	Semolina protein (%) ¹	Semolina ash (%) ¹
Mountrail	63.1	86.0	25.3	3	1.48	431	12.7	0.67
Divide	62.6	85.5	26.3	6	1.44	418	13.0	0.59
Alkabo	62.5	85.4	28.7	5	1.42	429	13.1	0.57
Grenora	61.6	85.5	28.3	5	1.50	450	13.4	0.59
Tioga	63.8	85.6	28.1	5	1.46	355	12.6	0.56
Carpio	61.8	85.2	29.6	7	1.48	415	13.2	0.59
Joppa	62.5	85.3	28.4	6	1.49	448	13.0	0.61
Alzada	63.2	84.3	31.1	7	1.56	450	12.4	0.67
Dynamic	61.6	85.0	31.3	6	1.56	431	12.1	0.60
Fortitude	59.5	85.2	31.1	6	1.55	450	12.7	0.64
Precision	60.7	85.4	31.7	6	1.61	450	12.6	0.65
Vivid	61.7	84.6	32.2	6	1.54	389	13.9	0.65
MT112219	63.9	84.4	27.4	6	1.59	444	12.0	0.65
MTD16001	62.7	85.7	26.6	4	1.40	450	11.8	0.52
MTD16002	60.2	85.3	26.6	5	1.49	450	12.8	0.56
MTD16003	62.3	85.5	26.5	4	1.44	441	11.6	0.58
MTD16004	60.2	85.7	23.9	4	1.46	450	11.6	0.56
MTD16005	62.0	85.2	27.9	6	1.46	450	12.4	0.61
MTD16006	61.3	85.4	24.2	5	1.54	432	12.5	0.60
MTD16007	60.1	85.7	20.8	6	1.48	450	13.0	0.62
MTD16008	61.4	84.1	26.8	6	1.47	446	12.7	0.61
MTD16009	58.5	85.0	25.2	6	1.55	450	13.8	0.65
MTD16010	60.7	85.2	25.7	5	1.50	450	13.9	0.61
MTD16011	62.2	85.0	28.7	5	1.50	447	12.2	0.59

¹Reported on a 14% moisture basis

Table 29. USDA-ARS seed quality means from EARC rainfed for 2018 intrastate durum trial.

Line	Test weight (lb/bu)	Kernel weight (mg)	Kernel diameter (mm)	Large kernels (%)	Small kernels (%)	Hardness	Wheat protein (%) ¹
Mountrail	61.8	48.4	3.03	82	5	68.5	14.9
Divide	63.0	47.8	3.05	85	4	69.6	14.8
Alkabo	62.2	49.6	3.09	85	4	65.5	14.3
Grenora	61.2	49.7	3.13	88	3	70.0	14.4
Tioga	62.0	50.7	3.16	88	2	65.5	14.9
Carpio	62.6	49.0	3.15	87	3	67.0	14.1
Joppa	62.4	48.0	3.05	85	4	70.7	15.0
Alzada	58.0	43.1	2.99	83	4	67.4	15.0
Dynamic	63.1	46.7	3.06	85	3	72.1	14.9
Fortitude	60.8	41.7	3.00	83	5	74.0	15.3
Precision	62.0	45.5	3.02	85	3	77.5	14.9
Vivid	61.8	47.0	3.03	83	5	71.2	15.9
MT112219	60.8	42.2	2.96	80	5	69.4	14.1
MTD16001	61.7	47.1	3.03	79	5	70.9	14.1
MTD16002	61.0	42.6	2.93	77	5	78.6	15.7
MTD16003	62.8	43.5	2.96	76	7	72.7	13.5
MTD16004	61.8	45.6	3.10	86	5	72.8	15.2
MTD16005	62.2	48.1	3.02	81	4	70.4	14.9
MTD16006	61.2	50.1	3.11	88	2	66.5	14.2
MTD16007	62.6	44.5	3.01	84	3	72.7	14.5
MTD16008	60.6	48.1	3.08	84	4	68.8	15.0
MTD16009	59.2	44.1	2.98	78	4	72.0	15.0
MTD16010	62.6	41.4	2.92	79	5	79.5	15.0
MTD16011	61.6	46.5	2.96	78	5	69.9	15.4

¹Reported on a 12% moisture basis

Table 30. USDA-ARS semolina quality means from EARC irrigated for 2018 intrastate durum trial.

Line	Milling yield (%)	Semolina L*	Semolina b*	Mixograph pattern	Grain ash (%) ¹	Falling number (s)	Semolina protein (%) ¹	Semolina ash (%) ¹
Mountrail	63.6	85.1	22.7	3	1.63	379	14.0	0.65
Divide	64.3	85.4	25.7	5	1.51	416	13.0	0.63
Alkabo	63.6	84.9	26.6	4	1.64	372	13.1	0.62
Grenora	63.6	84.9	25.8	4	1.67	370	12.8	0.63
Tioga	64.7	84.6	25.8	4	1.63	355	13.7	0.63
Carpio	63.5	84.6	28.7	6	1.54	404	13.0	0.63
Joppa	62.9	84.4	26.6	5	1.61	366	13.5	0.63
Alzada	63.3	83.3	28.2	6	1.76	411	13.7	0.77
Dynamic	64.6	84.9	30.4	5	1.56	416	13.7	0.60
Fortitude	64.0	84.7	28.6	6	1.71	364	13.7	0.64
Precision	62.4	84.6	29.1	5	1.69	436	13.6	0.71
Vivid	64.3	84.3	29.8	6	1.68	388	14.1	0.69
MT112219	64.4	83.6	24.3	4	1.70	312	12.6	0.74
MTD16001	65.5	85.2	25.9	5	1.50	384	12.8	0.57
MTD16002	63.1	85.0	26.4	4	1.51	450	14.0	0.59
MTD16003	66.1	85.2	25.1	3	1.54	399	12.0	0.58
MTD16004	62.5	84.6	22.2	5	1.66	365	13.5	0.69
MTD16005	63.9	84.9	26.7	5	1.52	397	13.3	0.64
MTD16006	63.4	84.2	22.8	4	1.61	377	13.4	0.66
MTD16007	62.6	85.0	20.3	4	1.52	395	13.3	0.66
MTD16008	63.8	83.3	24.7	3	1.63	407	13.5	0.68
MTD16009	62.5	84.5	24.5	5	1.62	385	13.8	0.66
MTD16010	63.4	84.6	25.0	5	1.62	450	13.8	0.68
MTD16011	64.6	84.5	27.2	5	1.55	450	13.6	0.66

¹Reported on a 14% moisture basis

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2018 Montana Durum variety trials

CONTINUED FROM PAGE C30

Table 31. Agronomic means from 2018 rainfed off-station durum trial Roosevelt Co., MT.

Line	Plant height (in)	Yield (bu/ac) ¹	Test weight (lb/bu)	Protein (%) ²
Mountrail	22.4	19.3	61.0	17.9
Divide	21.7	15.4	61.6	17.2
Alkabo	20.2	16.6	62.6	16.8
Grenora	<u>19.6</u>	17.6	61.3	16.8
Tioga	22.8	15.3	62.1	17.4
Carpio	20.1	15.4	61.6	17.5
Joppa	22.4	19.1	62.6	17.2
Alzada	21.4	22.4	60.6	16.3
Dynamic	20.1	15.7	61.6	19.5
Fortitude	23.0	20.8	61.6	18.5
Precision	22.3	17.5	62.3	18.6
Vivid	23.2	17.2	61.0	18.4
MT112219	19.8	20.3	62.3	<u>16.0</u>
MTD16001	22.2	17.0	61.5	16.7
MTD16002	25.2	<u>12.4</u>	60.8	19.0
MTD16003	22.7	17.8	61.3	16.1
MTD16004	24.4	17.1	61.2	17.3
MTD16005	22.6	19.0	60.8	18.2
MTD16006	24.3	17.6	61.5	17.2
MTD16007	23.4	20.2	61.8	18.0
MTD16008	23.6	14.0	60.6	18.2
MTD16009	21.3	14.4	<u>58.8</u>	19.0
MTD16010	21.7	14.7	61.6	17.9
MTD16011	22.6	15.1	60.2	18.0
Mean	22.2	17.2	61.3	17.6
CV (%)	8.4	15.6	0.7	1.8
LSD (P=0.05)	3.0	4.4	0.7	0.5
Prob > F	0.025	0.005	<0.001	<0.001

¹Reported on a 13% moisture basis

²Reported on a 12% moisture basis

NS = No significant difference based on ANOVA p<0.05

Underline/Bold = Highest values, underline = lowest

Table 32. Agronomic means from 2018 rainfed off-station durum trial Wibaux Co., MT.

Line	Plant height (in)	Yield (bu/ac) ¹	Test weight (lb/bu)	Protein (%) ²
Mountrail	34.6	39.2	60.4	15.5
Divide	37.3	42.0	60.2	16.1
Alkabo	34.4	40.1	60.0	15.0
Grenora	34.0	44.3	58.6	15.6
Tioga	38.5	44.7	59.6	16.1
Carpio	33.6	36.4	59.3	15.3
Joppa	36.4	41.8	60.1	15.5
Alzada	27.4	37.5	59.6	15.6
Dynamic	37.9	44.0	60.1	17.1
Fortitude	32.0	37.6	59.8	17.0
Precision	34.9	34.4	59.8	16.9
Vivid	33.9	<u>26.3</u>	60.5	16.6
MT112219	<u>25.1</u>	39.3	60.8	14.5
MTD16001	38.2	38.5	59.3	16.3
MTD16002	39.8	39.3	60.2	15.5
MTD16003	35.7	37.5	60.4	14.6
MTD16004	36.1	35.6	60.3	16.8
MTD16005	37.3	37.6	58.8	15.9
MTD16006	37.0	39.2	60.2	<u>14.2</u>
MTD16007	34.3	42.1	60.5	16.1
MTD16008	35.2	40.2	59.6	16.1
MTD16009	38.5	37.2	<u>56.8</u>	15.7
MTD16010	35.7	30.3	60.7	15.8
MTD16011	37.1	42.0	59.1	16.1
Mean	35.2	38.6	59.8	15.8
CV (%)	5.1	17.9	0.8	6.7
LSD (P=0.05)	2.9	NS	0.8	NS
Prob > F	<0.001	0.365	<0.001	0.097

¹Reported on a 13% moisture basis

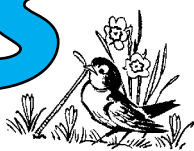
²Reported on a 12% moisture basis

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Underline/Bold = Highest values, underline = lowest

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2018 Montana Durum variety trials

CONTINUED FROM PAGE C32

Table 33. Agronomic means from 2018 rainfed off-station durum trial Valley Co., MT.

Line	Plant height (in)	Yield (bu/ac) ¹	Test weight (lb/bu)	Protein (%) ²	Weed damage (%)
Mountrail	32.5	34.0	64.7	10.1	6.7
Divide	34.9	30.6	64.4	9.0	3.3
Alkabo	34.0	42.3	64.9	11.4	3.3
Grenora	33.5	44.0	65.5	10.7	0.0
Tioga	38.2	45.1	65.0	10.8	0.0
Carpio	34.3	44.1	63.9	11.9	0.0
Joppa	34.6	38.1	64.7	12.2	0.0
Alzada	29.1	<u>29.7</u>	64.8	10.2	13.3
Dynamic	33.7	40.5	65.4	10.3	0.0
Fortitude	33.6	43.2	65.2	10.5	0.0
Precision	33.9	34.0	66.1	10.4	0.0
Vivid	35.8	40.8	65.2	10.7	6.7
MT112219	<u>26.2</u>	44.8	66.0	10.6	0.0
MTD16001	35.0	30.4	63.7	10.4	3.3
MTD16002	38.2	40.1	64.4	11.2	10.0
MTD16003	36.2	41.6	65.0	9.5	0.0
MTD16004	34.1	40.0	65.3	11.0	6.7
MTD16005	36.5	40.2	64.3	10.7	0.0
MTD16006	34.4	33.3	64.3	10.6	0.0
MTD16007	34.8	37.4	65.1	11.3	13.3
MTD16008	35.2	40.9	64.1	10.4	16.7
MTD16009	36.5	39.6	<u>62.3</u>	10.7	0.0
MTD16010	35.2	36.8	65.0	11.0	0.0
MTD16011	34.3	45.4	64.6	10.8	0.0
Mean	34.4	39.0	64.6	10.7	3.5
CV (%)	5.2	21.2	2.1	9.7	240.1
LSD (P=0.05)	2.9	NS	NS	NS	NS
Prob > F	<0.001	0.467	0.111	0.251	0.338

¹Reported on a 13% moisture basis

²Reported on a 12% moisture basis

NS = No significant difference based on ANOVA $p < 0.05$

Underline/Bold = Highest values, underline = lowest

Table 34. Agronomic means from 2018 rainfed off-station durum trial Turner, MT.

Line	Stand (%)	Plant height (in)	Yield (bu/ac)	Adj. yield (bu/ac)	Test weight (lb/bu)	Protein (%)	Cutting (%)	Falling number (sec)
Mountrail	92.3	25.5	32.4	35.2	60.6	16.0	0.7	345.2
Divide	93.4	28.3	32.1	34.4	61.4	16.4	0.7	334.8
Alkabo	88.8	25.7	31.0	35.1	61.5	15.9	1.0	335.2
Grenora	92.7	26.2	36.3	39.2	61.1	16.0	0.0	368.4
Tioga	86.4	28.5	35.3	40.8	62.0	16.0	0.7	345.3
Carpio	92.8	24.8	35.7	38.6	60.8	15.6	0.7	357.0
Joppa	<u>80.1</u>	27.3	31.4	39.3	61.8	16.2	0.7	336.8
Alzada	96.1	23.7	31.7	<u>33.0</u>	61.1	16.1	0.3	371.8
Dynamic	94.4	26.1	35.9	38.1	60.0	17.6	0.3	341.7
Fortitude	83.8	26.6	32.5	39.0	61.1	16.9	0.7	355.4
Precision	77.1	27.3	33.3	43.3	61.9	17.0	0.3	366.5
Vivid	95.3	27.8	36.4	38.2	60.7	16.6	1.0	349.1
MT112219	98.0	<u>22.1</u>	34.4	35.1	62.2	15.4	0.3	349.7
MTD16001	87.8	26.2	35.3	40.5	60.9	<u>15.2</u>	0.0	342.2
MTD16002	88.7	28.8	35.9	40.4	61.2	15.9	1.0	347.2
MTD16003	95.7	25.9	32.0	33.5	61.6	14.6	0.0	348.4
MTD16004	95.3	25.7	34.2	35.7	61.5	16.2	0.3	328.8
MTD16005	91.4	28.8	34.3	37.6	60.3	16.6	0.3	351.7
MTD16006	80.4	29.2	31.5	39.1	61.2	15.9	0.3	328.3
MTD16007	85.7	26.7	34.7	40.7	61.3	16.3	0.7	350.0
MTD16008	92.0	28.3	35.3	38.5	60.5	16.8	0.7	342.6
MTD16009	84.4	25.4	<u>30.9</u>	36.8	<u>58.6</u>	16.9	0.0	332.2
MTD16010	92.0	28.5	35.4	38.6	61.1	16.2	0.0	357.3
MTD16011	83.7	26.7	33.0	39.5	60.6	16.4	0.7	350.5
Mean	89.5	26.7	33.8	37.9	61.0	16.2	0.5	347.3
CV (%)	11.6	5.5	10.1	5.8	0.5	1.1	-	1.3
LSD (0.05)	NS	2.4	NS	3.6	0.5	0.3	-	7.7
Prob > F	0.594	<0.001	0.628	<0.001	<0.001	<0.001	-	<0.001

¹Reported on a 13% moisture basis

²Reported on a 12% moisture basis

³Percent cutting by sawfly

NS = No significant difference based on ANOVA $p < 0.05$

Underline/Bold = Highest values, underline = lowest

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2018 Montana Durum variety trials

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Table 35. Agronomic means from 2018 rainfed off-station durum trial Chester, MT.

Line	Stand (%)	Plant height (in)	Yield (bu/ac)	Test weight (lb/bu)	Protein (%)	Cutting (%) ³	Falling number (sec)
Mountrail	99.7	31.3	30.0	55.0	17.7	0.5	334.2
Divide	99.3	33.1	28.4	57.8	16.6	0.5	347.8
Alkabo	99.0	32.6	30.1	57.1	17.1	0.5	336.4
Grenora	98.4	32.3	29.6	56.0	17.5	0.3	342.7
Tioga	99.7	35.1	30.9	57.2	18.2	0.2	358.2
Carpio	98.4	31.5	27.0	55.3	17.4	0.3	336.8
Joppa	98.0	35.0	24.7	56.4	17.1	0.7	317.5
Alzada	99.7	28.0	33.9	54.4	16.8	1.8	367.1
Dynamic	100.0	31.8	27.3	55.9	18.6	0.0	<u>304.5</u>
Fortitude	99.3	32.0	29.6	55.8	18.0	0.2	353.3
Precision	99.3	33.3	34.8	58.0	18.0	0.2	360.9
Vivid	98.7	34.1	31.0	56.8	18.1	0.3	337.5
MT112219	99.0	<u>28.0</u>	31.4	55.9	<u>16.1</u>	0.3	342.9
MTD16001	99.0	33.0	28.6	56.9	17.1	0.5	347.8
MTD16002	99.3	31.5	25.7	57.0	17.0	0.0	331.2
MTD16003	98.7	31.7	29.9	56.2	17.4	0.7	345.0
MTD16004	98.7	32.9	33.7	58.1	17.5	0.3	340.6
MTD16005	99.0	34.3	25.2	55.5	18.0	0.2	348.7
MTD16006	99.3	36.2	28.0	57.7	17.4	0.3	335.4
MTD16007	99.0	33.0	27.8	56.4	18.0	0.3	337.3
MTD16008	99.7	34.1	<u>22.4</u>	55.9	17.1	1.7	353.4
MTD16009	98.4	32.1	24.0	<u>53.2</u>	17.7	0.3	332.8
MTD16010	98.4	33.1	26.0	56.8	17.0	0.0	346.7
MTD16011	98.4	33.6	27.0	55.6	17.4	0.5	343.9
Mean	99.0	32.7	28.6	56.3	17.4	0.4	341.8
CV (%)	1.3	4.2	7.5	0.7	2.5	-	1.9
LSD (0.05)	NS	2.2	3.5	0.6	0.7	-	10.7
Prob > F	0.935	<0.001	<0.001	<0.001	<0.001	-	<0.001

¹Reported on a 13% moisture basis

²Reported on a 12% moisture basis

³Percent cutting by sawfly

NS = No significant difference based on ANOVA $p < 0.05$

Underline/Bold = Highest values, underline = lowest

CONTINUED ON PAGE C40

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2018 Montana Durum variety trials

CONTINUED FROM PAGE C39

Table 36. Agronomic means from 2018 rainfed off-station durum trial Loring, MT.

Line	Stand (%)	Plant height (in)	Yield (bu/ac)	Test weight (lb/bu)	Protein (%)	Cutting (%)	Falling number (sec)
Mountrail	95.1	28.4	35.6	60.6	15.6	0.3	336.1
Divide	96.1	28.1	32.7	61.1	15.7	0.0	322.5
Alkabo	92.1	24.5	29.1	61.9	15.2	0.0	320.1
Grenora	90.1	27.1	29.9	61.2	15.9	0.7	340.5
Tioga	94.1	27.7	32.4	61.7	16.2	2.0	306.6
Carpio	91.5	25.7	31.7	61.2	15.0	0.3	343.0
Joppa	<u>85.2</u>	26.2	27.1	61.9	16.3	0.3	326.4
Alzada	94.1	<u>21.0</u>	31.3	61.3	15.6	0.3	379.6
Dynamic	97.0	25.7	<u>23.3</u>	60.4	17.5	0.7	335.8
Fortitude	97.0	24.8	35.2	60.8	16.7	0.3	344.7
Precision	90.7	25.0	30.4	61.9	16.6	0.0	345.5
Vivid	93.1	25.9	32.8	61.5	15.9	0.7	325.7
MT112219	96.0	21.4	26.9	61.7	16.2	0.0	315.3
MTD16001	90.5	27.4	33.0	60.8	15.2	0.0	328.0
MTD16002	93.4	24.3	34.4	61.2	15.4	0.0	331.2
MTD16003	94.4	23.3	28.7	61.4	<u>14.8</u>	0.3	333.0
MTD16004	96.7	27.1	28.3	61.7	15.7	0.7	310.1
MTD16005	96.7	26.7	32.0	60.4	16.3	0.3	324.0
MTD16006	92.4	24.1	31.9	61.2	16.0	0.0	316.5
MTD16007	90.4	24.9	31.2	61.3	16.3	0.0	338.9
MTD16008	93.4	20.9	26.2	59.3	17.6	0.0	<u>293.2</u>
MTD16009	94.1	23.2	30.7	<u>58.9</u>	16.2	0.0	309.4
MTD16010	89.4	26.0	29.4	60.7	16.2	0.7	334.1
MTD16011	97.1	25.6	34.0	60.1	15.8	0.0	327.6
Mean	93.4	25.2	30.8	61.0	16.0	0.3	328.7
CV (%)	5.7	3.9	6.0	0.6	2.4	-	3.9
LSD (0.05)	NS	1.6	3.0	0.6	0.6	-	21.3
Prob > F	0.534	<0.001	<0.001	<0.001	<0.001	-	<0.001

¹Reported on a 13% moisture basis

²Reported on a 12% moisture basis

³Percent cutting by sawfly

NS = No significant difference based on ANOVA $p < 0.05$

Underline/Bold = Highest values, underline = lowest



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