

Evaluation of durum varieties under dryland conditions at four off-station sites – EARC

24 durum wheat varieties were planted at 3 off-station locations in Roosevelt, Sheridan, and Wibaux counties in April, 2019 (the cooperating grower in Valley County did not have a field for the trial and is skipped this year). Each variety was planted with 4 replicates. In Wibaux County, the trial was planted in a lentil field and the cooperating grower hired a commercial sprayer to spray lentil and he accidentally sprayed on our trial. Therefore, the trial is abandoned. The results are presented in the following for Roosevelt and Sheridan Counties.

Roosevelt County Dryland Durum - MSU				Poplar, MT 2019
Variety	Plant Height (inch)	Test Weight† (lb/bu)	Protein (%)	Grain Yield† (bu/ac)
Alkabo	32.9	64.9	12.6	76.3
Alzada	24.8	62.4	12.9	53.5
Carpio	34.5	64.4	13.4	86.3
Divide	31.1	64.1	14.0	75.8
Dynamic	34.3	63.3	13.8	81.8
Fortitude	30.8	62.8	13.6	80.3
Grano	35.2	64.9	13.2	81.4
Grenora	28.2	63.4	12.0	69.3
Joppa	32.8	64.8	12.9	78.6
Mountrail	31.6	64.1	13.1	78.0
MTD16001	32.7	62.5	13.0	78.4
MTD16002	34.6	63.8	13.6	79.7
MTD16004	32.2	65.4	13.2	78.8
MTD16005	33.9	63.4	13.6	78.7
MTD16006	34.1	64.7	13.2	71.7
MTD16007	32.4	64.2	13.1	74.2
MTD16008	32.8	62.7	14.0	82.1
MTD16009	32.5	59.4	14.8	72.5
MTD16010	33.7	64.7	13.5	76.0
MTD16011	32.7	63.0	13.9	75.4
Precision	32.2	63.8	13.8	81.1
Riveland	35.3	63.9	13.5	84.2
Tioga	36.1	64.3	12.9	78.9
Vivid	34.9	64.1	14.0	88.0
Mean	32.8	63.7	13.4	77.5
P-Value	<0.0001	<0.0001	<0.0001	<0.0001
CV (%)	4.92	0.84	2.67	7.74
LSD (0.05)	2.65	0.88	0.59	9.87

Planted: 4/23/19

Harvested: 8/28/19

(Julian*) is a continuous count of days since January 1

† Test weight and grain yield adjusted to 12.0% moisture

Previous crop: Fallow

Plot Width: 5 ft.

Fertilizer: MESZ @ 80 lbs/ac

10-40-0-10sulfur-1Zn

Sheridan County Dryland Durum - MSU

Dagmar, MT 2019

Variety	Plant Height (inch)	Test Weight† (lb/bu)	Protein (%)	Grain Yield† (bu/ac)
Alkabo	37.4	64.3	13.4	64.8
Alzada	26.4	61.5	13.1	37.9
Carpio	36.1	64.2	13.0	65.2
Divide	34.4	63.4	14.1	57.0
Dynamic	37.7	63.7	15.3	65.6
Fortitude	36.1	62.9	14.6	64.0
Grano	36.6	64.2	13.7	62.2
Grenora	33.2	62.8	14.6	57.7
Joppa	37.3	63.9	13.4	61.7
Mountrail	35.6	63.4	13.9	60.4
MTD16001	32.9	62.2	13.9	52.4
MTD16002	38.1	63.5	14.0	66.8
MTD16004	31.4	64.6	13.7	60.8
MTD16005	35.3	63.3	14.1	62.6
MTD16006	36.5	63.3	12.8	50.9
MTD16007	34.5	64.4	14.0	63.4
MTD16008	37.7	62.7	14.4	65.1
MTD16009	34.3	59.8	15.0	50.5
MTD16010	33.7	64.1	13.8	50.5
MTD16011	36.7	63.6	14.1	59.4
Precision	35.6	63.8	15.1	66.1
Riveland	36.2	64.2	13.3	61.2
Tioga	38.8	63.7	14.2	64.4
Vivid	37.9	63.7	14.7	67.8
Mean	35.5	63.4	14.0	60.2
P-Value	<0.0001	<0.0001	<0.0001	<0.0001
CV (%)	4.51	0.90	2.24	7.69
LSD (0.05)	2.72	0.96	0.53	7.93

Planted: 4/24/19

Harvested: 8/29/19

(Julian*) is a continuous count of days since January 1

† Test weight and grain yield adjusted to 12.0% moisture

Previous crop: Lentil

Plot Width: 5 ft.

N added (lb/ac): 60

P₂O₅ added (lb/ac): 20