

Evaluation of durum varieties under dryland fallow and dryland recrop conditions at four off-station sites (Nashua, Poplar, Wibaux, and Plentywood).

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OBJECTIVES: To evaluate the performance of experimental lines and varieties of durum across eastern Montana.

MATERIALS AND METHODS:

Location:

- Roosevelt county (Poplar)
- Sheridan county (Plentywood)
- Valley county (Nashua)
- Wibaux county (Wibaux)

RESULTS:

Due to the severe drought in 2017, durum wheat did not get good germination at Plentywood and Nashua, the trials failed. Results from Poplar and Wibaux are shown in Table 3-4.

Table 3: Dryland Durum Evaluation - EARCRoosevelt County,
MT

Variety	Plant height (cm)	TW † (lb/bu)	Protein (%)	Grain Yield † (bu/a)
Alkabo	67	61.1	13.1	28.6
Alzada	62	59.9	13.3	26.5
Carpio	70	59.2	13.8	25.4
CDCDynamic	65	61.8	15.4	22.6
CDCForititude	68	59.6	15.2	20.6
CDCPrecision	66	61.3	14.5	27.3
CDCVivid	68	60.4	15.4	25.6
Divide	68	59.7	14.3	22.9
Grenora	65	60.2	14.4	26.8
Joppa	71	60.1	14.4	23.3
Mountail	66	60.5	13.9	29.7
Tioga	72	61.2	13.8	23.9
Mean	67.4	60.4	14.3	25.3
CV (%)	6.8	2.0	3.9	11.0
LSD	7.8	2.1	1.0	4.7

Previous crop: Fallow

Planted: 4/25/2017

Harvested: 8/4/2017

Fertilizer: Supplied by cooperator 65-70 lbs

MESZ (Microessential sulfur & zinc)

Cooperator also applied 300 lbs wheat blend in the fall.

Table 4: Dryland Durum Evaluation - MSU

Wibaux County, MT

Variety	Plant height (cm)	TW † (lb/bu)	Protein (%)	Grain Yield † (bu/a)
Alkabo	63	65.3	12.3	32.3
Alzada	56	63.2	13.1	34.9
Carpio	63	64.8	12.9	26.4
Divide	65	65.5	12.4	30.5
Grenora	62	64.1	13.1	31.7
Joppa	63	65.2	12.9	24.8
Mountail	63	64.1	12.9	31.0
Tioga	64	65.3	12.3	26.1
Mean	62.5	64.7	12.7	29.7
CV (%)	9.3	0.8	4.2	14.7
LSD	10.1	0.9	0.9	7.6

Previous Crop: Peas

Planted: 4/27/2017

Harvested: 8/16/2017

Fertilizer: 200 lbs Urea, 50 lbs 11-52-0