

i. Evaluation of spring wheat varieties under dryland conditions at four off-station sites – EARC

17 spring 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.

<b>Roosevelt County Dryland Spring Wheat - MSU</b>				<b>Poplar, MT 2019</b>
<b>Variety</b>	<b>Plant Height (inch)</b>	<b>Test Weight† (lb/bu)</b>	<b>Protein (%)</b>	<b>Grain Yield† (bu/ac)</b>
Brennan	27.7	64.7	15.4	76.5
Choteau	29.3	61.9	14.3	84.4
Corbin	28.0	62.5	14.2	68.3
CP3888	29.7	62.0	14.2	81.5
CP3939	30.1	63.8	14.5	82.2
CPX36619	24.3	63.7	14.3	59.6
Duclair	29.7	62.9	13.4	81.8
Egan	30.7	61.2	15.5	78.7
Lanning	29.1	62.8	15.5	84.0
MT 1617	32.8	62.1	13.6	86.5
MT 1621	30.2	64.0	15.1	92.4
MT 1716	30.2	63.2	14.3	87.7
MT 1749	31.2	62.8	14.6	86.0
NS Presser CLP	32.9	60.3	14.5	88.9
Reeder	32.9	63.0	14.7	83.6
SY Soren	27.6	63.7	15.1	77.5
Vida	31.0	61.2	14.5	93.6
Mean	29.8	62.7	14.6	82.0
P-Value	0.0007	<0.0001	<0.0001	<0.0001
CV (%)	0.61	0.80	1.73	4.2
LSD (0.05)	3.28	0.83	0.42	5.69

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 Spring Wheat - MSU**

**Dagmar, MT 2019**

<b>Variety</b>	<b>Plant Height (inch)</b>	<b>Test Weight† (lb/bu)</b>	<b>Protein (%)</b>	<b>Grain Yield† (bu/ac)</b>
Brennan	29.5	64.6	15.4	70.1
Choteau	34.4	62.3	15.3	71.3
Corbin	32.0	62.8	14.9	67.5
CP3888	30.4	62.8	14.8	80.5
CP3939	32.5	63.8	15.3	75.7
CPX36619	23.6	62.1	13.9	56.3
Duclair	31.2	61.9	14.5	64.6
Egan	32.5	61.8	16.2	67.7
Lanning	29.0	62.3	16.2	67.5
MT 1617	34.8	62.8	13.9	77.8
MT 1621	31.0	62.6	15.5	72.8
MT 1716	32.2	64.1	14.2	74.4
MT 1749	32.7	62.3	15.6	67.2
NS Presser CLP	35.0	61.2	14.6	78.0
Reeder	36.0	63.2	14.6	73.3
SY Soren	31.0	64.4	15.2	74.7
Vida	34.3	62.4	14.1	75.0
Mean	31.9	62.8	15.0	71.4
P-Value	<0.0001	<0.0001	<0.0001	<0.0001
CV (%)	4.36	0.73	2.93	6.20
LSD (0.05)	2.31	0.77	0.73	7.36

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

P<sub>2</sub>O<sub>5</sub> added (lb/ac): 20