

Title: Spring Wheat Off-Station Trial – 2017

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Objective: To evaluate spring wheat varieties and experimental lines for agronomic performance in environments and cropping systems representative of northwestern Montana.

Results:

This nursery was established to evaluate spring wheat varieties for yield and agronomic performance in the absence of fungicide or insecticide inputs. This year, rainfall was largely absent as well. This resulted in a shorter crop, with plant height averaging 21 inches. Fortuna was the tallest variety at 26 inches, and MT1525 was the shortest, at 19 inches. Heading spanned 8 days, with MT1570 being the earliest variety at 171 days, and NS Presser CL the latest at 179.3 days. NS Presser CL also was the highest yielding variety, producing 46.7 bu/A, whereas Brennan was the lowest yielding variety, at 25 bu/A. There were no differences among varieties for either protein or test weight. Protein averaged 14.87 % while test weight averaged 59.4 lb/bu.

Summary:

Spring wheat yields were fifty percent of the normal long term average, with NS Presser CL, LCS Pro, Vida, WB Gunnison, Alum and Lanning being the top performers.

Table 1. Materials and Methods.

Seeding Date:	5/4/2017	Harvest Date:	8/9/2017
Julian Date:	124	Julian Date:	229
Seeding Rate:	80 lb/A	Soil Type:	Kalispell vfst
Previous Crop:	peas	Soil Test:	29-16-156
Tillage:	Conventional	Fertilizer:	150-30-30
Herbicide:	Huskie 11 oz & Axial 16.4 oz		

Table 2. Agronomic data from spring wheat varieties, Kalispell, MT -2017.

Variety	Heading	Height	Yield	Protein	TWT
	Julian	inch	bu/A	%	lb/bu
NS Presser CL+	179.3	21.3	46.7	14.92	59.5
LCS Pro	174.0	23.0	45.2	14.80	60.3
Vida	176.3	20.5	41.7	15.20	59.7
WB Gunnison	173.0	20.8	41.3	14.58	59.4
Alum	174.7	22.7	41.0	14.20	59.2
Lanning	176.3	20.2	40.3	14.87	59.3
Oneal	177.0	21.6	36.9	15.18	60.2
MT 1525	173.0	19.0	36.9	15.09	58.8
Reeder	177.7	19.7	35.9	14.31	59.3
WB9879CLP	176.0	21.8	35.9	14.90	60.1
Duclair	171.3	22.2	35.4	14.26	59.9
SY Ingmar	173.3	21.0	35.4	15.54	57.8
MT 1543	171.7	20.9	34.1	15.23	60.2
Choteau	173.0	19.4	32.9	14.48	60.3
MT 1570	171.3	20.0	32.3	15.33	58.7
Egan	178.0	21.5	32.1	15.48	58.1
Fortuna	173.3	26.1	30.0	14.33	59.1
SY Soren	173.3	20.6	28.3	15.13	59.1
Corbin	172.0	20.7	28.0	14.89	59.3
Brennan	171.7	19.2	25.3	14.65	59.6
Mean	174.3	21.1	35.8	14.87	59.4
LSD P=.05	1.364	2.379	9.68	ns	ns
CV	0.47	6.82	16.38	5.19	1.98
Pr>F	0.0001	0.0003	0.0030	0.6396	0.4413

TWT: test weight, ns: nonsignificant.