

Lentil Dryland Variety Trial - NDSU

WREC, Williston, ND 2018

Variety	Days to Flower	Days to Mature	Canopy Height	Lodging	1000 Seed Weight	Test weight	Yield		
							2018	2-Yr Avg*	3-Yr Avg**
	(DAP ¹)	(DAP ¹)	(in)	(0-9 ²)	(g)	(lb/bu)	----- (lb/a) -----		
French Green									
CDC Lemay	52	85	5	5	30.9	63.3	930	1170	1301
Large Green									
Pennell	49	86	8	2	42.6	59.6	711	1419	1478
Riveland	44	82	6	5	44.6	58.5	871	1494	1452
CDC Greenland	52	86	6	4	61.0	59.5	1303	1436	1393
Medium Green									
Avondale	47	83	6	5	45.7	61.1	937	1642	1671
CDC Richlea	50	83	6	5	44.7	61.2	1125	1512	1607
Small Green									
ND Eagle	45	80	8	5	50.0	62.2	907	1475	-
CDC Viceroy	50	83	8	3	29.9	63.0	1149	1333	1400
Small Red									
CDC Red Rider	51	85	8	4	42.6	62.3	1290	1616	1621
CDC Redberry	50	84	7	2	38.5	62.2	1349	1302	1369
CDC Rosetown	52	84	10	2	27.1	63.9	1104	1202	1294
CDC Rouleau	52	81	7	5	33.2	61.3	917	1710	1661
Spanish Brown									
Pardina	43	76	4	9	46.4	63.4	224	1343	1482
Mean	48	82	6	5	42.5	61.8	861.5	-	-
CV (%)	1.7	1.8	25.4	30.1	5.6	0.6	23.5	-	-
LSD (5%)	1.2	2.1	2.3	2.0	3.4	0.5	287.5	-	-
LSD (10%)	1.0	1.8	1.9	1.6	2.8	0.5	239.9	-	-

Location: WREC; Latitude 48° 8' N; Longitude 103° 44' W; Elevation 2105 ft.

Previous crop: Small Grains.

Planted: 05/05/2018.

Harvested: 08/08/2018.

Soil test (0-6"): P=43 ppm; K=332 ppm; pH=6.3; OM=2.0%.

Soil type: Williams-Bowbells loam.

(0-24"): NO₃-N=35 lb/a.

Applied fertilizer in lb/a: none, seed inoculated with granular inoculant at planting.

*Averages of years 2016 and 2017. **Averages of years 2015, 2016, and 2017

¹DAP=Days After Planting.²0=no lodging. 9=plants lying flat on ground.**Note: Trial received heavy rain, wind, and hailstorms that damaged the crop and adversely affected yield.**

06/23/2018: Wind speed=46 mph; Precipitation=1.53".

06/28/2018: Wind speed=61 mph; Precipitation=0.94"; Hail.

07/09/2018: Wind speed=48 mph; Precipitation=1.67".