

NORTH DAKOTA STATE UNIVERSITY
Williston Research Extension Center

Lentil Irrigated Variety Trial

WREC, Nesson Valley, ND 2017

Variety	Origin	Seed Type	Days to Flower (DAP ⁺)	Days to Maturity (DAP ⁺)	Canopy Height (in)	Lodging (0-9 [*])	1000 Seed Weight (g)	Test Weight (lb/bu)	Yield	
									2017 (lb/a)	2-Yr Avg [†] (lb/a)
CDC Redberry	Canada	Small Red	63	93	16	3	41.9	60.5	3077.6	2941.3
CDC Viceroy	Canada	Small Green	64	92	11	4	33.7	61.1	2597.3	2606.7
CDC Richlea	Canada	Medium Green	61	92	12	4	49.0	58.9	2859.3	2403.2
CDC Red Rider	Canada	Small Red	66	96	16	4	42.5	60.1	2571.5	2292.2
CDC Greenland	Canada	Large Green	64	96	11	7	60.7	56.4	2396.3	1962.6
Pennell	USDA	Large Green	62	100	12	4	62.8	57.0	2207.7	1738.3
ND Eagle	NDSU	Small Green	60	91	12	4	37.4	60.2	2899.2	-
CDC Rouleau	Canada	Small Red	63	93	14	4	35.8	60.1	2728.8	-
Riveland	USDA	Large Green	52	91	9	7	71.0	55.1	2563.2	-
CDC Rosetown	Canada	Small Red	66	96	13	3	31.7	62.4	2450.8	-
CDC Lemay	Canada	Small Green	63	92	11	6	33.8	61.1	2322.6	-
Mean			62.0	93.7	12.3	4.4	45.49	59.35	2606.75	2324.06
C.V. (%)			2.5	2.8	20.1	43.2	5.40	0.79	14.46	-
LSD (5%)			2.3	3.8	3.6	2.8	3.55	0.67	544.51	-
LSD (10%)			1.9	3.2	3.0	2.3	2.95	0.56	452.52	-

Location: Latitude 48 9.9222'N; Longitude 103 6.132'W; Elevation 1902 ft

Previous crop: Durum

Planted: 5-3-2017

Harvested: 8-23-2017

Plot size: 61.25 ft²

Soil type: Lihen Loamy Fine Sand

Soil test to (0-6"): P=16 ppm; K=195 ppm; pH=7.6; OM=2.2%

(0-24"): NO₃-N=52 lb/a

Applied fertilizer in lb/a broadcast: none / seed inoculated

Yield goal = 2,500 lb/a bu

Planting population = 750,000 seeds/a

Herbicides applied: Prowl H₂O 3.5pt/a + Sharpen 2oz/a (5/15/2017), Section 2EC 8oz/a + Trophy Gold 2 qt/100gal H₂O (6/26/2017)

Gramoxone 3.0 SL 2pt/a + Class Act 1 qt/100 gal H₂O (8/15/2017)

Fungicides applied: Priaxor 8oz/a (6/28/2017)

Rainfall: 5.72 in. (5/3/2017 - 8/23/2017)

Irrigation: 12.8 in. (5/3/2017 - 8/23/2017)

[†]Days After Planting

^{*}0: no lodging - 9: plants lying flat on ground

†2 year averages based on 2015 and 2017