

Lentil Irrigated Variety Trial

WREC, Nesson Valley, ND 2016

Variety	Origin	Seed type	Days to flower (DAP*)	Days to mature (DAP*)	Canopy height (in)	Vine length (in)	Lodging (0-9*)	1000 seed weight (g)	Test weight (lb/bu)	Yield (lb/a)
CDC Maxim	Canada	Small Red	64	99	13.3	15.8	3	38.8	61.9	4279
CDC Proclaim	Canada	Small Red	63	97	12.3	14.9	2	41.1	61.6	4056
CDC Impala	Canada	Extra Small Red	65	97	11.5	15.5	4	31.5	62.9	3864
CDC Dazil	Canada	Small Red	65	99	10.4	17.2	6	35.5	61.2	3679
CDC Invincible	Canada	Small Green	64	99	9.8	16.6	6	33.9	60.9	3348
CDC Impress	Canada	Large Green	64	96	9.6	16.7	7	51.9	58.6	3149
CDC Peridot	Canada	French Green	63	97	8.9	14.4	8	36.8	60.9	3065
CDC Imigreen	Canada	Large Green	66	99	11.0	17.6	6	54.1	57.8	2496
Mean			63.3	96.8	8.9	14.4	7.5	36.8	60.9	3065.2
C.V.%			2.7	2.3	11.1	12.3	29.0	2.4	0.8	12.7
LSD 5%			2.6	NS	1.8	2.9	2.2	1.4	0.7	642.0
LSD 10%			2.1	2.8	1.5	2.4	1.8	1.2	0.6	531.2

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

Previous crop: barley

Planted: 4/22/2016

Harvested: 8/12/2016

Plot size: 61.25 ft²

Soil type: Lihen Loamy Fine Sand

Applied fertilizer in broadcast: none

Soil test to 6": 16-ppm P, 200- ppm K, OM-2.0 pH-8.5

Soil test to 2' : 38 lbs N/a

Yield goal = 2,500 lb/a

Planting population = 750,000 seeds/a

Herbicides applied: Sharpen 0.75 oz/a + Pursuit 1 oz/a + Prowl H2O 2 pt/a (4/28/2016), Section 2EC 6 oz/a (6/7/2016),
Assure II 7 oz/a (7/10/2016), and Gramoxone Inteon 1 pt/a (8/9/2016)

Fungicides applied: Priaxor D 6 oz/a (6/28/2016 and 7/8/2016)

Rainfall: 8.35 in. (4/22/2016 - 8/12/2016)

Irrigation: 6.5 in. (4/22/2016 - 8/12/2016)

* Days after planting

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