

NORTH DAKOTA STATE UNIVERSITY
Williston Research Extension Center

Dryland Chickpea Variety Trial - NDSU

WREC, Williston, ND 2017

Variety	Days to Flower	Days to Mature	Plant Height	Seed Size				1000 Seed Weight	Test Weight	Yield				
				<8mm	8-9mm	9-10mm	>10mm			2015	2016	2017	2-Yr Avg	3-Yr Avg
	DAP ¹	DAP ¹	inch	(%)	(%)	(%)	(%)	(g)	lb/bu	(lb/a)	(lb/a)	(lb/a)	(lb/a)	(lb/a)
Desi														
CDC Anna	56	87	10	100	0	0	0	175	31.5	2113	1545	810	1178	1489
Large Kabuli														
CDC Frontier	56	90	10	79	20	1	0	308	30.9	2094	1872	722	1297	1563
CDC Luna	56	88	9	74	29	6	0	324	30.9	1879	1564	598	1081	1347
Sawyer	57	96	10	52	36	11	0	376	30.3	1758	1392	582	987	1244
Sierra	60	97	10	22	44	29	4	342	29.5	1527	895	528	711	983
CDC Orion	53	87	8	57	38	4	0	376	29.9	-	-	874	-	-
Small Kabuli														
B-90	58	89	10	99	1	0	0	248	30.7	1739	1663	568	1115.4	1323.3
Mean	56.6	90.3	9.5	69.1	24.0	7.5	0.8	307.0	30.54	-	-	668.8	-	-
CV (%)	1.8	0.8	10.2	10.8	19.3	26.7	53.0	3.4	1.8	-	-	11.9	-	-
LSD (5%)	1.5	1.0	1.4	7.3	8.2	7.3	3.3	18.9	0.75	-	-	114.25	-	-
LSD (10%)	1.3	0.8	1.2	6.1	6.8	6.1	2.7	15.7	0.63	-	-	95.03	-	-

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

Previous crop: Durum

Planting Date: 5/6/2017

Harvest Date: 8/21/2017

Soil test (0-6"): P=21 ppm; K=250 ppm; pH=6.9; OM=1.8%

Soil type: Williams-Bowbells loam

(0-24"): NO₃-N=34 lb/a

Applied fertilizer in lb/a: none; seed inoculated with a peat-based inoculant at planting

Chemical Applications: 1.4 pt./a Bravo Weatherstik with 5 oz./a Proline (fungicide) applied on 6/28/2017

6 oz./a Priaxor with 1.4 pt./a Bravo Weatherstik (fungicide) applied on 7/10/2017

DAP¹= Days after planting

Varieties Sierra and Sawyer experienced moderate to severe wildlife damage