

Chickpea Dryland Variety Trial - NDSU

WREC, Williston, ND 2018

Variety	Days to Flower	Days to Mature	Plant height	Seed Size				1000 Seed Weight	Test weight	Yield		
				<8mm	>8mm	>9mm	>10mm			2018	2-Yr Avg*	3-Yr Avg**
	(DAP ¹)	(DAP ¹)	(in)	(%)	(%)	(%)	(%)	(g)	(lb/bu)	(lb/a)		
Desi												
CDC ANNA	39	82	13	99.2	0.9	0.0	0.0	211.2	60.3	1774.0	1178	1489
Kabuli												
CDC FRONTIER	44	88	14	59.3	37.1	3.6	0.2	351.5	61.3	1513.0	1297	1563
CDC LUNA	40	86	14	46.4	46.8	6.8	0.1	373.0	61.7	1929.7	1081	1347
CDC ORION	38	86	12	24.3	49.7	24.9	1.1	428.4	61.2	1763.7	-	-
NASH	43	88	14	8.5	28.4	47.4	19.2	550.6	60.0	1336.7	-	-
ROYAL	44	86	13	14.0	36.4	39.6	10.1	512.5	60.1	1433.0	-	-
SAWYER	39	85	14	43.1	38.2	24.4	2.0	416.9	62.0	1663.7	987	1244
SIERRA	42	88	14	22.3	47.3	32.3	2.9	457.3	60.5	1239.7	712	983
CDC Palmer	38	84	13	31.0	55.5	13.7	0.0	403.2	60.8	1888.7	-	-
CDC Leader	38	83	11	40.9	49.1	9.9	0.1	392.8	61.4	1956.7	-	-
B14	40	88	16	14.6	47.4	35.3	2.3	466.9	60.6	1707.0	-	-
Mean	41	86	13	36.7	39.7	21.6	3.5	414.9	60.9	1655.1	-	-
CV (%)	2.3	1.9	8.5	11.0	9.9	13.0	36.5	2.4	1.3	9.0	-	-
LSD (5%)	1.5	2.7	1.9	6.1	6.2	5.5	2.5	17.3	1.3	231.3	-	-
LSD (10%)	1.3	2.3	1.6	5.1	5.2	4.6	2.1	14.4	1.1	192.6	-	-

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

Previous crop: Spring Wheat

Planted: 05/10/2018

Harvested: 08/21/2018

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

¹DAP= Days after planting

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

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".