

Minot Chickpea Variety Trial

Trial Information

Design: Split-Plot with three replicates

Planting Date: May 19

Harvest Date: October 5

Planting Rate: 175K PLS/acre

Fertility: Granular inoculant placed with seed

Previous crop: Flax

Weed Control: 1.75 oz/acre Pursuit + 2.7 5pt/acre Prowl + 22 oz/acre Roundup WeatherMax PRE on May 21, 8 oz/acre Volunteer on June 28

Fungicide Treatments: 5.7 fl oz/acre Proline on July 7, 6 oz/acre Endura on July 21, 5.7 fl oz/acre Proline on August 2

Variety	Disease ¹				Canopy Height		Days to Flowering		Seeds/Pound		1000 Seed Weight	
	29-Jul		27-Aug		cm		DAP ²		Fung.		g	
	Fung.	No Fung.	Fung.	No Fung.	Fung.	No Fung.	Fung.	No Fung.	Fung.	No Fung.	Fung.	No Fung.
CDC Anna	1.0	1.0	2.0	4.7	49.3	47.0	52	52	2,182	3,453	208.3	136.5
B-90	1.0	1.0	2.0	4.0	47.7	49.7	56	53	1,682	2,474	270.0	200.7
Dylan	2.7	4.3	2.0	9.0	48.7	40.7	49	50	1078.0	0.0	461.4	0
CDC Frontier	1.0	1.0	1.3	4.0	57.7	47.0	52	54	1,433	1,946	334.7	242.8
HB14	2.3	5.7	2.7	9.0	55.3	41.7	51	52	1,474	0	328.0	0
HB19	1.7	2.7	3.0	8.3	54.3	48.3	48	49	1,316	534	428.7	94.5
CDC Luna	1.0	1.3	1.3	6.0	49.0	45.3	48	48	1,181	2,540	386.8	179.0
Sawyer	1.3	2.0	2.7	7.0	54.3	43.7	47	47	1,294	1,974	389.2	263.0
Sierra	1.7	3.0	3.0	8.7	48.7	42.0	51	50	927	0	494.0	0
Troy	3.0	4.3	2.3	9.0	48.3	43.0	51	51	1,242	0	383.8	0
TRT MEAN	1.7	2.6	2.2	7.0	51.3	44.8	51	50	1,381	1,292	368.5	111.7
MEAN	2.2		4.6		48.1		51		1,336		240.1	
CV	31.5		19.0		10.2		3		36		29.4	
LSD (0.05)	1.1		1.4		8.1		2		806		116.8	
TRT LSD (0.05)	0.4		0.5		2.6		1		255		36.9	

¹ Primarily Ascochyta blight (1= no disease, 9= 100% infection)

² Days after Planting

Minot Chickpea Variety Trial (Cont.)

Variety	Seed Sizing ¹						Test Weight		Seed Yield			
	>10mm		>9mm		>8mm		<8mm		lb/bu		lb/A	
	Fung.	No Fung.	Fung.	No Fung.	Fung.	No Fung.	Fung.	No Fung.	Fung.	No Fung.	Fung.	No Fung.
CDC Anna	0	0	0	0	2.0	0	98.1	100.0	56.6	53.0	2,971	412
B-90	0	0	0	0	2.2	1.0	98.0	98.5	56.4	53.7	2,495	1,379
Dylan	26.4	0	29.7	0	18.1	0	25.8	0	50.1	0	754	0
CDC Frontier	0	0	6.4	0.5	34.9	14.1	58.9	85.6	56.7	55.8	3,145	632
HB14	11.8	0	22.6	0	23.9	0	41.7	0	51.4	0	190	0
HB19	24.8	0	34.7	0	21.3	0	19.0	0	55.4	0	1,110	66
CDC Luna	1.2	0.3	18.7	0	42.1	6.3	37.9	93.5	53.8	39.0	2,787	190
Sawyer	9.4	3.8	20.5	12.5	30.7	24.1	39.3	59.5	56.2	56.1	2,391	228
Sierra	28.3	0	35.4	0	20.8	0	15.6	0	52.8	0.0	1,165	0
Troy	23.2	0	31.5	0	23.7	0	21.7	0	52.1	0.0	1,117	0
TRT MEAN	12.5	0.4	19.9	1.2	22.0	4.5	45.6	43.8	54.2	25.8	1,825	291
MEAN	6.4		10.6		13.2		44.7		40.0		1,057	
CV	53.9		53.1		57.1		26.7		3.4		41	
LSD (0.05)	5.8		9.4		12.6		20.0		2.3		711	
TRT LSD (0.05)	1.8		3.0		4.0		6.3		0.7		224	

¹ Seed size data as reported reflect the % of the seed sample remaining on top of the sieves.