

Carinata Fertility Trial at Minot

Applied Fertilizer*		Days to Bloom	Duration of Bloom	Days to Mature	Plant Height	Lodging	Grain Yield
Nitrogen	Sulfur						
pounds per acre		DAP**	DAP**	DAP**	inches	0-9***	lbs/A
25	0	51	28	93	33	1	1420
50	0	51	28	93	37	1	1942
100	0	51	28	93	35	1	1894
150	0	51	28	94	35	1	2032
26	5	50	29	93	35	1	1594
50	5	52	27	93	37	1	1493
100	5	51	28	93	42	1	1980
150	5	51	28	93	42	1	2261
31	10	50	29	93	39	1	2214
50	10	50	29	92	40	1	2480
100	10	51	28	93	40	1	1728
150	10	50	29	93	36	1	1965
39	20	51	28	93	38	1	1751
50	20	52	27	94	39	1	1805
100	20	51	28	93	35	1	2049
150	20	51	28	94	35	1	2027
Trial Mean		51	28	93	37	1	1915
C.V. %		2.0	3.6	1.3	8.8	19	15.7
LSD 5%		NS	NS	NS	NS	NS	503
LSD 10%		NS	NS	NS	5	NS	418

Combined Means: Nitrogen

*Total Nitrogen	Days to Bloom	Duration of Bloom	Days to Mature	Plant Height	Lodging	Grain Yield
lbs/A	DAP**	DAP**	DAP**	inches	0-9***	lbs/A
25	51	28	93	37	1	1745
50	51	28	93	39	1	1930
100	51	28	93	38	1	1913
150	51	28	94	37	1	2071
LSD 5%	NS	NS	NS	NS	NS	302

Combined Means: Sulfur

*Applied Sulfur	Days to Bloom	Duration of Bloom	Days to Mature	Plant Height	Lodging	Grain Yield
lbs/A	DAP**	DAP**	DAP**	inches	0-9***	lbs/A
0	51	28	93	35	1	1822
5	51	28	93	39	1	1832
10	51	28	93	39	1	2097
20	51	28	93	37	1	1908
LSD 5%	NS	NS	NS	3	NS	NS

*Total pounds of residual soil N + applied N from Urea and AMS, and total pounds of S from AMS applied in a mid-row band at planting.

**Days after planting.

***Lodging: 0 = none, 9 = lying flat on the ground.

Planting Date: May 4

Harvest Date: August 26

Variety = AAC A120

Seeding Rate: 6 lbs / acre

Previous Crop: Soybean

Tillage: No-till

Soil Type: Williams loam

Soil Test (0-24"): N = 22 lbs/A, S = 146 lbs/A