North Central Research Extension Center—Minot
2010 Bayer Crop Science Chickpea Fungicide Efficacy Trial

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Trial information

- Design: RCB with four replicates
- Plot size: 10' x 18'
- Planting Date/Rate/Variety: May 13, 4 plants per square foot, Dwelley
- Previous Crop/Tillage: Flax/Spring tilled with chisel plow spikes and sweeps
- Seeding System: Plot planter with off-set double disc openers on 6 inch spacing
- Fertility: Granular inoculant placed with the seed
- Treatment Application Date: Pre-bloom on July 2, +14 days on July 16, +28 days on July 30
- Application Equipment: $C0_2$ pressurized hand boom with 80015 flat fans @ 40 psi and 15 GPA
- Weed Control: Prowl H20 + Pursuit PRE, Select Max POST, Gramoxone Inteon Pre-harvest
- Harvest Date: September 20

				Disease[1]			Seed Size[2]						
Treatment		Timing	Rate	*9-Jul*	*29-Jul*	*27-Aug*	>10 mm	>9 mm	>8 mm	<8 mm	Seed Weight	Test Weight	Yield
			fl oz/A	---------- 0-9 ---------			----------%----------				seed/lb	lb/bu	lb/A
Untreated		--	--	2.8	5.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Proline	+ NIS (0.25%)	pre-bloom	5.0										
Proline	+ NIS (0.25%)	+ 14 days	5.0										
Proline	+ NIS (0.25%)	+ 28 days	5.0	0.5	1.0	3.0	9.9	25.2	26.3	38.9	1100.6	56.0	1900.3
Echo		pre-bloom	22.4										
Proline	+ NIS (0.25%)	+ 14 days	5.0										
Proline	+ NIS (0.25%)	+ 28 days	5.0	2.5	1.8	3.0	7.8	22.0	25.3	45.0	1169.1	57.5	1161.7
Echo		pre-bloom	22.4										
ProPulse	+ NIS (0.25%)	+ 14 days	10.3										
ProPulse	+ NIS (0.25%)	+ 28 days	10.3	1.5	1.0	2.3	11.4	29.5	29.9	29.4	975.7	56.4	2575.8
Endura		pre-bloom	6.0										
Endura		+ 14 days	6.0										
Endura		+28 days	6.0	1.5	1.8	3.0	7.4	22.6	32.0	38.2	1157.7	56.9	1980.4
ProPulse	+ NIS (0.25%)	pre-bloom	8.6										
ProPulse	+ NIS (0.25%)	+ 14 days	8.6										
ProPulse	+ NIS (0.25%)	+ 28 days	8.6	0.8	1.0	2.8	7.2	23.1	30.1	39.8	1103.6	57.3	2111.8
ProPulse	+ NIS (0.25%)	pre-bloom	10.3										
ProPulse	+ NIS (0.25%)	+ 14 days	10.3										
ProPulse	+ NIS (0.25%)	+ 28 days	10.3	0.8	1.3	2.8	10.5	23.5	31.8	34.4	1082.7	56.3	2202.2
LSD 5%		--		1.0	0.8	0.5	6.1	10.1	4.0	16.8	183.1	NS	621.5
C.V.%		--		46.7	28.9	8.7	52.9	32.5	10.9	35.1	13.1	3.0	24.4
Mean		--		1.5	1.8	3.7	7.7	20.8	25.1	32.2	941.3	48.6	1704.6

[1] *Disease visually evaluated for plot severity on a 0-9 scale. 0 equal to no disease. Rated mid and upper canopy.*

[2] *Seed size equal to percent of 200 g sample remaining on top or falling through respective screen size as listed.*