

Nitrogen Management Options for Soybean

Ryan Buetow, DREC, Dickinson, ND, 2016

A field trial was conducted to observe the effects of four N treatments grown with the university recommended population of 150,000 plants per acre at locations in Dickinson and north of Glen Ullin. The cultivar chosen was Integra 20300 as it had done well in previous variety trials in the region. Plots were planted in Dickinson on May 18th and in Glen Ullin May 20th. Five plants per plot were excavated on August 9th to observe average nodules per plant. Combined across locations addition of granular inoculant increased the number of nodules and increased yield as expected.

Treatment	Average Root Nodules Per Plant
Control	0.3 bc
No Inoculant + 30 lbs N	0.2 c
Inoculant	2.5 ab
Inoculant + 30 lbs N	3.9 a

LSD 0.05

Treatment	Yield
Control	22.1b
No Inoculant + 30 lbs N	23.2b
Inoculant	29.3a
Inoculant + 30 lbs N	29.4a

LSD 0.05