

Demonstration of Supplemental Nitrogen on Furrow Irrigated Soybeans in MS 2013

Objective

- Evaluate the effect of supplemental nitrogen (N) applied at the R3 growth stage on yield of highly managed furrow irrigated Pioneer® brand soybeans grown on light and heavy textured soils in the MS delta.

Study Description

Plot Layout:	Field-length blocks
Experimental Design:	Non-replicated strip trial
Number of Locations:	2
Soil Type:	1 sandy loam location 1 heavy clay location
Nitrogen Treatments Applied at R3 Growth Stage:	Non-treated 75 lbs/acre ammonium sulfate (AMS) 2 gal/acre 25-0-0 foliar N fertilizer
Pioneer® Variety:	93Y92 (RR)
Cooperator:	Livingston Farms, Leland, MS



Supplemental N trial at clay location.

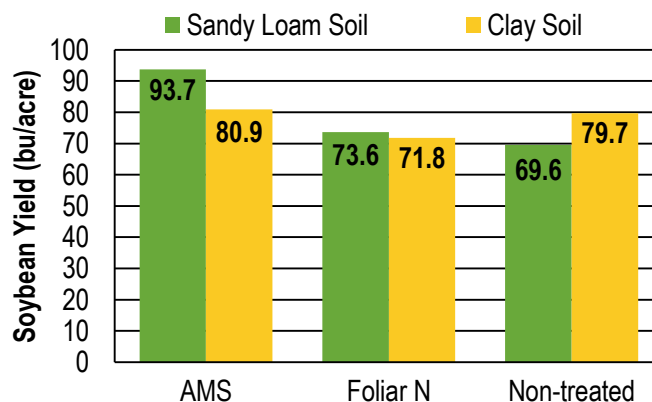


Supplemental N trial at sandy loam location.

Results

- Supplemental N appeared to be more beneficial at the sandy loam site and of little benefit at the heavy clay location.
- Soybeans were most responsive to 75 lbs/acre AMS at the sandy loam site where yield with the AMS treatment was 20+ bu/acre higher than the non-treated control.
- Foliar N supplement at the sandy loam site resulted in a 4 bu/acre yield increase compared to the non-treated control.
- This study was a non-replicated trial conducted for demonstrational and educational purposes. Further investigations are warranted to validate these findings.
- Future replicated studies will focus on the potential benefit of supplemental N and sulfur on light-textured, low organic matter soils of the MS alluvial flood plain.

Effect of Supplemental N Applied at the R3 Growth Stage on Soybean Yield



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