



Nebraska On-Farm Research Network

Irrigated Soybean Replant into a Thin Stand

Study ID: 035141201401

County: Platte

Soil Type: Nora-Crofton-Moody silty clay loam

Planting Date: 5/10/2014

Harvest Date: 10/23/2014

Population: 145,000

Row Spacing: 15"

Hybrid: Hoegemeyer 2993 NRR

Reps: 5

Previous Crop: Corn

Tillage: No-till

Herbicides:

Pre: Fierce

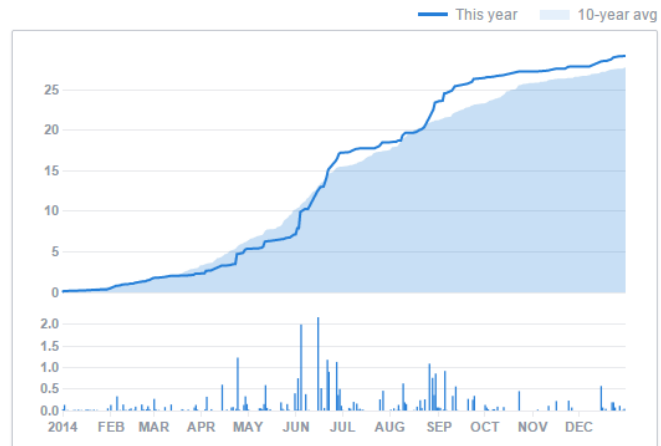
Post: Roundup PowerMAX and Select Max on 6/12/2014

Insecticides/Fungicides:

Guacho, Evergo Energy, PA2030 Biological

Irrigation: Pivot

Rainfall:



Introduction: The irrigated field was originally planted on May 10 at a population of 145,000 seeds/acre at a depth of 1.25 to 1.5 inches. The field was coming out of 6 years of continuous corn and was planted in a no-till environment. Cool soil temperatures combined with heavy residue contributed to poor seedling emergence. On June 11, the stand count was around 75,000 plants/acre with an estimated 5,000 to 10,000 seeds/acre having potential to emerge. The field was originally planted diagonally in 15 inch row spacing. On June 11, 5 replications of field length strips were replanted in 30 inch row spacing at a diagonal to the existing rows. The replant seeding rate was 145,000 seeds/acre. By late August, the non-replanted areas had filled in and the stand appeared to be adequate.



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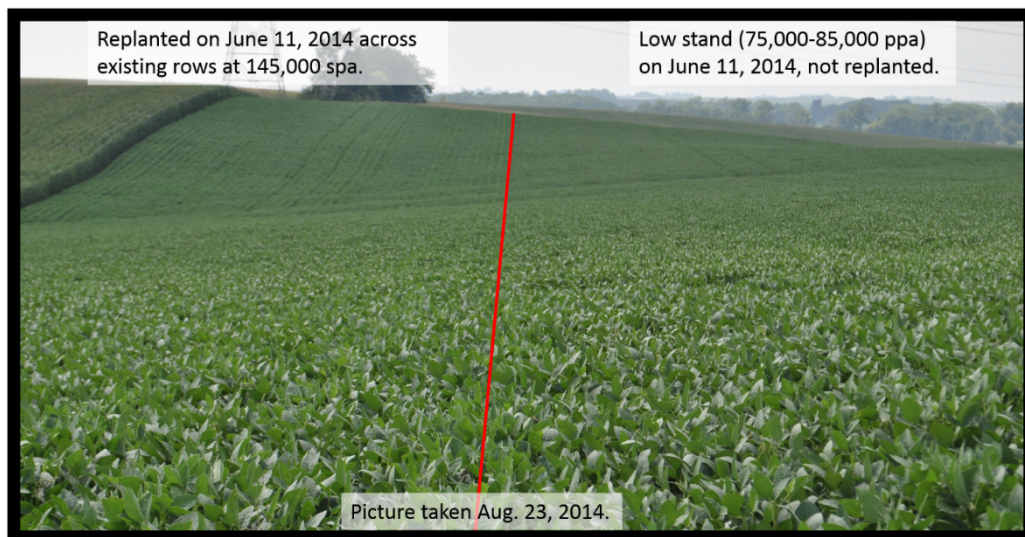
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Results:

	Yield† (bu/acre)	Moisture (%)	Harvest Pop	Net Return ‡
Original	58 A*	10.6 B	138,497 B	\$580.00
Re-plant	57 A	10.9 A	235,267 A	\$545.00
P-Value	0.2559	0.0892	0.0021	

†Bushels per acre corrected to 13.0% moisture.

*Values with the same letter are not significantly different at a 90% confidence level.

‡Net return based on \$10/bu and \$25/ac replant cost (no additional seed cost, 100% replant coverage policy for loyal customers).

Summary: The final population for the original stand ended up being much higher than that stand count on June 11. The sufficient population for the original planted soybean treatments resulted in no additional yield gain for the replanted areas.

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