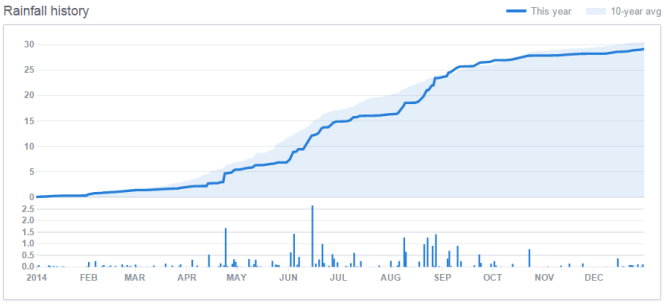
# Nebraska On-Farm Research Network

## Irrigated Soybean Population Study

**Study ID:** 002121201401
**County:** Merrick
**Soil Type:** Fonner sandy loam
**Planting Date:** 5/6/2014
**Harvest Date:** Unknown
**Row Spacing:** 30”
**Hybrid:** Pioneer 93Y16
**Reps:** 4
**Previous Crop:** Corn
**Tillage:** Vertical

**Herbicides:**
**Pre:** 5oz/ac Anthem and 32oz/ac Durango on 5/30/2014
**Post:** 16oz/ac Ultra Blazeron, 32oz/ac Durango, and 1qt/ac Plen-T-Sweet on 7/2/2014
**Insecticides/Fungicides:**
Poncho/VOTiVO, Evergol Energy
**Fertilizers:**
70 lbs/ac 11-52-0, 95 lbs/ac K-Mag, and 47 lbs/ac Pel-Lime on 2/25/2014
**Irrigation:** Pivot




**Results:**

| | Yield† (bu/acre) | Moisture (%) | Net Return ‡ |
|---|---|---|---|
| **120,000 seeds/ac** | 71 A* | 12.8 A | $658.57 |
| **150,000 seeds/ac** | 72 A | 12.8 A | $655.71 |
| **180,000 seeds/ac** | 72 A | 12.6 B | $642.86 |
| ***P-Value*** | *0.7733* | *0.0062* | -- |

†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 soybeans and $60/unit seed (140,000 seeds).

**Summary:** There was no significant difference in yield for the three populations tested. The 180,000 seeds/acre rate was significantly dryer than the other two seed rates tested. The highest net returns were obtained from the 120,000 seeds/ac rate.

**Sponsored by:** University of Nebraska Lincoln

**In partnership with:** Nebraska Soybean Board, Nebraska Corn Board, Nebraska Corn Growers Association