## FIELD EXPERIMENT HISTORY

## Title: Sweet Corn Stand Reduction

## Experiment: 16Sweet

Trial ID: 6421
Year: 2019
Personnel: Joe Lauer, Thierno Diallo, Kent Kohn.
Location: Arlington, WI
County: Columbia
Supported By: HATCH, National Crop Insurance Services.

## Site Information

Field: ARS 375 Previous Crop: Soybean Soil Type: Plano Silt Loam
Soil Test Date: 11/12/19 pH: 7.0 OM (\%): $2.6 \quad$ P (ppm): $15 \quad$ K (ppm): 109


Table:1916-01. Influence of Sweet Corn Stand Reduction on Yield.
Arlington, WI-2019.

| Thin time | Thin percent | Main <br> Unhusked ear yield | Secondary <br> Unhusked ear yield | 5-ear Unhusked yield | 5-ear Husked yield | Cut grain moisture | Fresh grain yield | Dry grain yield | Tiller |  | Silking day of year | Plant <br> height | Harvest density |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | number | height |  |  |  |
|  | \% | T/A | T/A | T/A | T/A | \% | T/A | T/A | no. | in | DOY | in | plants/A |
| V3 |  | 7.7 | 0.8 | 8.5 | 7.2 | 74.3 | 5.1 | 1.3 | 5 | 24 | 210 | 63 | 18250 |
| V8 |  | 7.7 | 0.8 | 8.5 | 7.0 | 73.8 | 4.8 | 1.3 | 2 | 22 | 210 | 61 | 17750 |
| V13 |  | 6.8 | 1.1 | 7.9 | 6.8 | 74.0 | 4.8 | 1.3 | 3 | 22 | 210 | 62 | 17500 |
|  | 0 | 8.6 | 0.7 | 9.3 | 8.6 | 73.5 | 6.0 | 1.6 | 2 | 22 | 210 | 65 | 22917 |
|  | 25 | 7.9 | 0.8 | 8.7 | 7.0 | 73.9 | 5.0 | 1.3 | 4 | 22 | 210 | 62 | 17583 |
|  | 50 | 6.6 | 1.2 | 7.8 | 6.5 | 74.1 | 4.4 | 1.2 | 5 | 23 | 210 | 61 | 15167 |
|  | 75 | 5.7 | 0.8 | 6.5 | 4.3 | 74.7 | 3.0 | 0.7 | 3 | 25 | 211 | 60 | 9833 |
|  | L50 | 8.2 | 0.9 | 9.2 | 8.6 | 73.9 | 6.1 | 1.6 | 3 | 21 | 210 | 63 | 23667 |
| V3 | 0 | 8.3 | 0.7 | 9.0 | 8.4 | 73.4 | 5.8 | 1.5 | 2 | 23 | 210 | 65 | 22500 |
| V3 | 25 | 8.1 | 0.7 | 8.7 | 7.3 | 73.5 | 5.3 | 1.4 | 5 | 19 | 210 | 63 | 18500 |
| V3 | 50 | 7.4 | 1.0 | 8.4 | 7.0 | 74.6 | 5.0 | 1.3 | 7 | 23 | 211 | 62 | 16750 |
| V3 | 75 | 6.5 | 1.1 | 7.5 | 5.3 | 75.7 | 3.6 | 0.9 | 5 | 35 | 211 | 63 | 11500 |
| V3 | L50 | 8.4 | 0.4 | 8.8 | 8.3 | 74.4 | 5.8 | 1.5 | 4 | 22 | 210 | 63 | 22000 |
| V8 | 0 | 9.1 | 0.4 | 9.6 | 8.4 | 74.1 | 5.7 | 1.5 | 2 | 19 | 210 | 65 | 21750 |
| V8 | 25 | 8.3 | 0.9 | 9.2 | 6.7 | 73.6 | 4.7 | 1.2 | 3 | 26 | 210 | 62 | 16500 |
| V8 | 50 | 6.2 | 1.4 | 7.5 | 6.8 | 73.3 | 4.3 | 1.2 | 4 | 26 | 209 | 61 | 15000 |
| V8 | 75 | 5.9 | 0.4 | 6.3 | 4.4 | 74.3 | 3.1 | 0.8 | 2 | 17 | 210 | 57 | 10250 |
| V8 | L50 | 9.1 | 0.7 | 9.8 | 8.6 | 73.7 | 6.1 | 1.6 | 2 | 20 | 210 | 62 | 25250 |
| V13 | 0 | 8.4 | 0.9 | 9.3 | 9.2 | 72.9 | 6.6 | 1.8 | 4 | 25 | 210 | 64 | 24500 |
| V13 | 25 | 7.4 | 0.9 | 8.2 | 7.0 | 74.6 | 4.9 | 1.2 | 4 | 21 | 210 | 63 | 17750 |
| V13 | 50 | 6.3 | 1.1 | 7.4 | 5.7 | 74.4 | 4.0 | 1.0 | 5 | 21 | 211 | 61 | 13750 |
| V13 | 75 | 4.8 | 0.9 | 5.7 | 3.1 | 74.1 | 2.2 | 0.6 | 1 | 22 | 211 | 60 | 7750 |
| V13 | L50 | 7.1 | 1.7 | 8.8 | 8.9 | 73.8 | 6.3 | 1.6 | 3 | 23 | 210 | 64 | 23750 |
| Mean |  | 7.4 | 0.9 | 8.3 | 7.0 | 74.0 | 4.9 | 1.3 | 3 | 23 | 210 | 62 | 17833 |
| Probability(\%) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Thin time ( T ) |  | 0.3 | 0.4 | 5.0 | 59.3 | 39.7 | 54.5 | 74.4 | 2.9 | 39.0 | 26.7 | 5.4 | 71.2 |
| Thin percent (P) |  | 0.0 | 0.6 | 0.0 | 0.0 | 16.3 | 0.0 | 0.0 | 4.2 | 75.6 | 72.0 | 0.0 | 0.0 |
| TxP |  | 24.8 | 0.0 | 17.0 | 44.0 | 31.2 | 41.6 | 40.3 | 84.7 | 1.9 | 31.4 | 22.5 | 28.2 |
| LSD (0.10) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Thin time ( T ) |  | 0.5 | 0.2 | 0.5 | NS | NS | NS | NS | 1 | NS | NS | 1.2 | NS |
| Thin percent (P) |  | 0.6 | 0.2 | 0.6 | 0.9 | NS | 0.7 | 0.2 | 2 | NS | NS | 2 | 2005 |
| TxP |  | NS | 0.4 | NS | NS | NS | NS | NS | NS | 8 | NS | NS | NS |

