

Corn Seed Rate

Trial ID: 2020-CRNP03 — R.M. of Hanover

Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal seeding rate by 3,000 seeds/ac in corn.

| TRIAL INFORMATION | |
|----------------------|-------------------|
| Location | Pansy |
| Previous Crop | Corn |
| Soil Texture | Fine Loam |
| Tillage | Minimal Tillage |
| Planting Date | May 12, 2020 |
| Fertilizer (N-P-K-S) | 180N |
| Variety | P7861YHR |
| Row Spacing | 30" |
| Seed Rate (seeds/ac) | 33k vs 30k vs 36k |
| Harvest Date | October 15, 2020 |

| SOIL PROPERTIES† | | | |
|------------------|---------|---------|--------|
| N 0-24" | P (ppm) | K (ppm) | % O.M. |
| 75 | 19 | 56 | 2.1 |

†Nutrient values prior to spring seeding

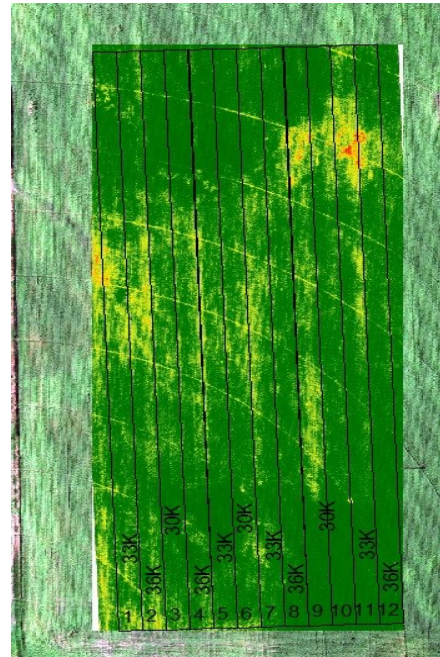
| PLANT STAND @ V2 | | | |
|----------------------|---------------------|---------------------|---------------------|
| Seed Rate (seeds/ac) | 30,000 | 33,000 | 36,000 |
| Plant stand/ac | 28,250 ^B | 29,250 ^B | 35,500 ^A |

| PRECIPITATION† | | | | | |
|----------------|-----|------|------|-----|------------|
| | May | June | July | Aug | Total |
| Rainfall | 30 | 65 | 130 | 62 | 288 |
| Normal | 61 | 86 | 77 | 76 | 300 |

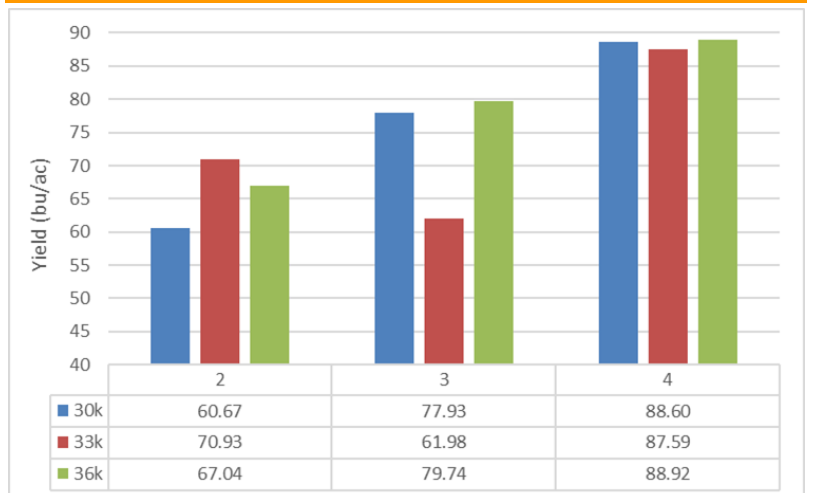
†Growing season precipitation (mm)

| OVERALL YIELD | |
|-----------------|-------------------|
| | Mean (bu/ac) |
| 30,000 seeds/ac | 75.7 ^A |
| 33,000 seeds/ac | 73.5 ^A |
| 36,000 seeds/ac | 78.6 ^A |
| P-Value | 0.4653 |
| CV | 14.84% |
| Significance | No |

FIELD IMAGE—AUG 17, 2020



STRIP YIELD



Summary: There was no significant difference in yield between the 30,000, 33,000 and 36,000 seeds/acre seeding rates. There was a significant difference in plant stands taken at V2. Rainfall was average throughout the growing season, with a large t-storm in mid June causing significant variability across the trial and severe reductions in yield potential.