

FIELD EXPERIMENT HISTORY

Title: Plant Density and Hybrid Influence on Corn Grain and Silage Performance
Experiment: 02PD **Trial ID:** 6660 **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Arlington, WI **County:** Columbia
Supported By: HATCH

Site Information

Field: ARS406 **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 9 /1 /22 **pH:** 6.1 **OM (%)** 2.8 **P (ppm)** 40 **K (ppm)** 127

Plot Management

Tillage Operations: Field Cultivator

| | | <u>Analysis:</u> | <u>Rate lbs/A:</u> | <u>Date:</u> |
|------------------------------|--|-----------------------------|--|--------------|
| Fertilizer: | Preplant : | 32-0-0 | 43 lbs/A | N/A |
| | Starter : | 9-11-30-6S-1Zn | 18 lbs/A | 5 /9 /22 |
| | Post plant : | N/A | N/A | N/A |
| | Manure: | N/A | N/A | N/A |
| Herbicide: | Bellum 6.0 oz/A Medal II EC 24 oz/A | | Insecticide: Force 6.5G 2.0 lbs/A | |
| Irrigation: | None | | Hybrid: See Factors | |
| Planting Date: | 5/9/22 | Planting Depth: 1.5" | Row Width: 30" | |
| Target Plant Density: | See Factors | Planting Method: | Almaco Plot Planter | |
| Harvest Date: | S: 9/15/22 G: 10/24/22 | Harvest Method: | S: New Holland 707 G: Massey 8XP | |

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 20' x 25' **Experiment Size:** 0.25 A
Harvest Plot Size: S: 2.5' x 23'
G: 5' x 23' **Harvest Plant Density:** 34536

Factors/Treatments:

| <u>Target Plant Density:</u> | <u>Hybrid:</u> |
|------------------------------|-----------------------------|
| 1) 20000 | 1) Jung 49DP441 99RM |
| 2) 26000 | 2) Dairyland DS-4510Q 106RM |
| 3) 32000 | |
| 4) 38000 | |
| 5) 44000 | |
| 6) 50000 | |

Results: Tables 2202-01 & 2202-02.

FIELD EXPERIMENT HISTORY

Title: Plant Density and Hybrid Influence on Corn Grain
Experiment: 02PD **Trial ID:** 6661 **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Chippewa Falls, WI **County:** Chippewa
Supported By: HATCH

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Sattre Silt Loam
Soil Test: **Date:** 9 /1 /22 **pH:** 5.2 **OM (%)** 1.4 **P (ppm)** 40 **K (ppm)** 92

Plot Management

Tillage Operations: Spring Chisel Field Cultivator

| | | <u>Analysis:</u> | <u>Rate lbs/A:</u> | <u>Date:</u> |
|--------------------|---------------------|------------------|--------------------|--------------|
| Fertilizer: | Preplant : | 21-0-0-24S | 11 lbs/A | N/A |
| | Starter : | 9-11-30-6S-1Zn | 18 lbs/A | 5 /5 /22 |
| | Post plant : | 32-0-0 | 64 lbs/A | N/A |
| | Manure: | Dairy | 10000 gal/A | N/A |

Herbicide: Acuron 3.0 qt/A **Insecticide:** Force 6.5G 2.0 lbs/A

Irrigation: Irrigated **Hybrid:** See Factors

Planting Date: 5/5/22 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: See Factors **Planting Method:** Almaco Plot Planter

Harvest Date: 10/18/22 **Harvest Method:** Massey 8XP

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.5 A
Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 32733

Factors/Treatments:

| <u>Target Plant Density:</u> | <u>Hybrid:</u> |
|------------------------------|----------------------------|
| 1) 20000 | 1) Dekalb DKC43-75RIB 93RM |
| 2) 26000 | 2) Jung 49DP441 99RM |
| 3) 32000 | |
| 4) 38000 | |
| 5) 44000 | |
| 6) 50000 | |

Results: Tables 2202-03.

FIELD EXPERIMENT HISTORY

Title: Plant Density and Hybrid Influence on Corn Grain
Experiment: 02PD **Trial ID:** 6662 **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Coleman, WI **County:** Marinette
Supported By: HATCH

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Oconto Silt Loam
Soil Test: **Date:** 9 /1 /22 **pH:** 6.2 **OM (%)** 1.6 **P (ppm)** 77 **K (ppm)** 93

Plot Management

Tillage Operations: Disk Chisel Field Cultivator

| | | <u>Analysis:</u> | <u>Rate lbs/A:</u> | <u>Date:</u> |
|------------------------------|---------------------|------------------------|-------------------------|-----------------------|
| Fertilizer: | Preplant : | 21-0-0-24S | 21 lbs/A | N/A |
| | Starter : | 9-11-30-6S-1Zn | 18 lbs/A | 6 /2 /22 |
| | Post plant : | 11-52-0 | 18 lbs/A | N/A |
| | | 46-0-0 | 143 lbs/A | N/A |
| | Manure: | N/A | N/A | N/A |
| Herbicide: | Resicore 2.5 qt/A | | Insecticide: | Force 6.5G 2.0 lbs/A |
| Irrigation: | None | | Hybrid: | See Factors |
| Planting Date: | 6/2/22 | Planting Depth: | 1.5" | Row Width: 30" |
| Target Plant Density: | See Factors | | Planting Method: | Almaco Plot Planter |
| Harvest Date: | 11/2/22 | | Harvest Method: | Massey 8XP |

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.5 A
Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 34764

Factors/Treatments:

| <u>Target Plant Density:</u> | <u>Hybrid:</u> |
|------------------------------|----------------------------|
| 1) 20000 | 1) Dekalb DKC43-75RIB 93RM |
| 2) 26000 | 2) Jung 49DP441 99RM |
| 3) 32000 | |
| 4) 38000 | |
| 5) 44000 | |
| 6) 50000 | |

Results: Tables 2202-04.

**Table: 2202-04. Plant Density and Hybrid Influence on Corn Grain.
Coleman, WI - 2022.**

| Hybrid | Target | Harvest | Yield | Moisture | Test | Lodged | | | AGR |
|------------------------------|----------|----------|-------|----------|--------|--------|-------|------|------|
| | density | density | | | | Total | Stalk | Root | |
| | plants/A | plants/A | bu/A | % | lbs/bu | % | % | % | \$/A |
| Dekalb DKC43-75RIB | | 34490 | 146 | 27.8 | 49 | 0.0 | 0.0 | 0.0 | 819 |
| Jung 49DP441 | | 35037 | 133 | 32.1 | 47 | 0.1 | 0.1 | 0.0 | 738 |
| | 20000 | 20391 | 132 | 29.3 | 49 | 0.0 | 0.0 | 0.0 | 736 |
| | 26000 | 25883 | 138 | 29.4 | 49 | 0.0 | 0.0 | 0.0 | 773 |
| | 32000 | 31755 | 140 | 29.0 | 48 | 0.0 | 0.0 | 0.0 | 782 |
| | 38000 | 38194 | 143 | 29.3 | 47 | 0.0 | 0.0 | 0.0 | 801 |
| | 44000 | 43497 | 144 | 31.8 | 47 | 0.1 | 0.1 | 0.0 | 797 |
| | 50000 | 48863 | 141 | 30.8 | 47 | 0.3 | 0.3 | 0.1 | 782 |
| Dekalb DKC43-75RIB | 20000 | 20328 | 137 | 27.5 | 50 | 0.0 | 0.0 | 0.0 | 772 |
| Dekalb DKC43-75RIB | 26000 | 25000 | 141 | 27.1 | 50 | 0.0 | 0.0 | 0.0 | 793 |
| Dekalb DKC43-75RIB | 32000 | 31439 | 146 | 26.7 | 50 | 0.0 | 0.0 | 0.0 | 825 |
| Dekalb DKC43-75RIB | 38000 | 37752 | 150 | 27.4 | 48 | 0.0 | 0.0 | 0.0 | 842 |
| Dekalb DKC43-75RIB | 44000 | 43686 | 155 | 29.1 | 47 | 0.0 | 0.0 | 0.0 | 867 |
| Dekalb DKC43-75RIB | 50000 | 48737 | 145 | 29.0 | 48 | 0.0 | 0.0 | 0.3 | 814 |
| Jung 49DP441 | 20000 | 20454 | 126 | 31.1 | 48 | 0.0 | 0.0 | 0.0 | 701 |
| Jung 49DP441 | 26000 | 26767 | 136 | 31.7 | 49 | 0.0 | 0.0 | 0.0 | 753 |
| Jung 49DP441 | 32000 | 32070 | 133 | 31.4 | 47 | 0.0 | 0.0 | 0.0 | 739 |
| Jung 49DP441 | 38000 | 38636 | 137 | 31.2 | 47 | 0.0 | 0.0 | 0.0 | 759 |
| Jung 49DP441 | 44000 | 43307 | 133 | 34.4 | 47 | 0.3 | 0.3 | 0.0 | 728 |
| Jung 49DP441 | 50000 | 48989 | 136 | 32.7 | 46 | 0.5 | 0.5 | 0.0 | 749 |
| Mean | | 34764 | 140 | 29.9 | 48 | 0.1 | 0.1 | 0.0 | 778 |
| <u>Probability(%)</u> | | | | | | | | | |
| Hybrid (H) | | 1.3 | 0.5 | 0.0 | 1.3 | 20.6 | 20.6 | 32.8 | 0.3 |
| Plant Density (D) | | 0.0 | 56.6 | 22.6 | 9.6 | 63.2 | 63.2 | 44.1 | 69.1 |
| Hybrid x Plant Density | | 8.9 | 88.0 | 97.6 | 42.3 | 63.2 | 63.2 | 44.1 | 90.1 |
| <u>LSD (0.10)</u> | | | | | | | | | |
| Hybrid (H) | | 348 | 7 | 1.2 | 1 | NS | NS | NS | 41 |
| Plant Density (D) | | 602 | NS | NS | 2 | NS | NS | NS | NS |
| Hybrid x Plant Density | | 852 | NS | NS | NS | NS | NS | NS | NS |

FIELD EXPERIMENT HISTORY

Title: Plant Density and Hybrid Influence on Corn Grain
Experiment: 02PD **Trial ID:** 6663 **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Fond du Lac, WI **County:** Fond du Lac
Supported By: HATCH

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Virgil Silt Loam
Soil Test: **Date:** 9 /1 /22 **pH:** 5.2 **OM (%)** 2.8 **P (ppm)** 36 **K (ppm)** 136

Plot Management

Tillage Operations: Strip-Till

| | | <u>Analysis:</u> | <u>Rate lbs/A:</u> | <u>Date:</u> |
|------------------------------|---------------------|------------------------|-------------------------|-----------------------|
| Fertilizer: | Preplant : | N/A | N/A | N/A |
| | Starter : | 9-11-30-6S-1Zn | 18 lbs/A | 5 /9 /22 |
| | Post plant : | 28-0-0 | 30 lbs/A | N/A |
| | | 32-0-0 | 128 lbs/A | N/A |
| | Manure: | N/A | N/A | N/A |
| Herbicide: | Acuron 3.0 qt/A | | Insecticide: | Force 6.5G 2.0 lbs/A |
| Irrigation: | None | | Hybrid: | See Factors |
| Planting Date: | 5/9/22 | Planting Depth: | 1.5" | Row Width: 30" |
| Target Plant Density: | See Factors | | Planting Method: | Almaco Plot Planter |
| Harvest Date: | 10/28/22 | Harvest Method: | Massey 8XP | |

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.5 A
Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 33007

Factors/Treatments:

| <u>Target Plant Density:</u> | <u>Hybrid:</u> |
|------------------------------|-----------------------------|
| 1) 20000 | 1) Jung 49DP441 99RM |
| 2) 26000 | 2) Dairyland DS-4510Q 106RM |
| 3) 32000 | |
| 4) 38000 | |
| 5) 44000 | |
| 6) 50000 | |

Results: Tables 2202-05.

FIELD EXPERIMENT HISTORY

Title: Plant Density and Hybrid Influence on Corn Grain
Experiment: 02PD **Trial ID:** 6664 **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Galesville, WI **County:** Trempealeau
Supported By: HATCH

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Downs Silt Loam
Soil Test: **Date:** 9 /1 /22 **pH:** 5.2 **OM (%)** 3.6 **P (ppm)** 75 **K (ppm)** 192

Plot Management

Tillage Operations: Field Cultivator

| | | <u>Analysis:</u> | <u>Rate lbs/A:</u> | <u>Date:</u> |
|--------------------|---------------------|------------------|--------------------|--------------|
| Fertilizer: | Preplant : | 46-0-0 | 100 lbs/A | N/A |
| | | 21-0-0-24S | 21 lbs/A | N/A |
| | | 18-46-0 | 18 lbs/A | N/A |
| | Starter : | 9-11-30-6S-1Zn | 18 lbs/A | 5 /5 /22 |
| | Post plant : | N/A | N/A | N/A |
| | Manure: | N/A | N/A | N/A |

Herbicide: Strelis II 2.0 pt/A **Insecticide:** Force 6.5G 2.0 lbs/A
 Atrazine 4L 16.0 oz/A
 Dicamba 2.0 oz/A

Irrigation: None **Hybrid:** See Factors

Planting Date: 5/5/22 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: See Factors **Planting Method:** Almaco Plot Planter

Harvest Date: 10/11/22 **Harvest Method:** Massey 8XP

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.5 A
Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 34953

Factors/Treatments:

| <u>Target Plant Density:</u> | <u>Hybrid:</u> |
|------------------------------|-----------------------------|
| 1) 20000 | 1) Jung 49DP441 99RM |
| 2) 26000 | 2) Dairyland DS-4510Q 106RM |
| 3) 32000 | |
| 4) 38000 | |
| 5) 44000 | |
| 6) 50000 | |

Results: Tables 2202-06.

**Table: 2202-06. Plant Density and Hybrid Influence on Corn Grain.
Galesville, WI - 2022.**

| Hybrid | Target | Harvest | Yield | Moisture | Test | Lodged | | | AGR |
|------------------------------|----------|----------|-------|----------|--------|--------|-------|------|--------|
| | density | density | | | | Total | Stalk | Root | \$6.09 |
| | plants/A | plants/A | bu/A | % | lbs/bu | % | % | % | \$/A |
| Dairyland DS-4510Q | | 35311 | 250 | 26.6 | 53 | 0.2 | 0.2 | 0.2 | 1408 |
| Jung 49DP441 | | 34595 | 239 | 21.5 | 55 | 0.1 | 0.1 | 0.0 | 1374 |
| | 20000 | 22474 | 207 | 23.7 | 54 | 0.0 | 0.0 | 0.0 | 1179 |
| | 26000 | 27967 | 237 | 24.0 | 53 | 0.0 | 0.0 | 0.0 | 1351 |
| | 32000 | 30997 | 250 | 24.4 | 53 | 0.0 | 0.0 | 0.0 | 1422 |
| | 38000 | 37689 | 247 | 24.2 | 54 | 0.7 | 0.7 | 0.0 | 1406 |
| | 44000 | 43434 | 265 | 23.6 | 54 | 0.0 | 0.0 | 0.0 | 1508 |
| | 50000 | 47158 | 261 | 24.5 | 54 | 0.3 | 0.3 | 0.5 | 1481 |
| Dairyland DS-4510Q | 20000 | 24116 | 207 | 26.7 | 53 | 0.0 | 0.0 | 0.0 | 1166 |
| Dairyland DS-4510Q | 26000 | 26010 | 239 | 26.6 | 53 | 0.0 | 0.0 | 0.0 | 1346 |
| Dairyland DS-4510Q | 32000 | 31944 | 263 | 27.3 | 52 | 0.0 | 0.0 | 0.0 | 1477 |
| Dairyland DS-4510Q | 38000 | 36742 | 244 | 26.6 | 53 | 1.3 | 1.3 | 0.0 | 1374 |
| Dairyland DS-4510Q | 44000 | 44696 | 275 | 25.0 | 52 | 0.0 | 0.0 | 0.0 | 1560 |
| Dairyland DS-4510Q | 50000 | 48358 | 271 | 27.3 | 53 | 0.0 | 0.0 | 1.0 | 1524 |
| Jung 49DP441 | 20000 | 20833 | 207 | 20.7 | 55 | 0.0 | 0.0 | 0.0 | 1193 |
| Jung 49DP441 | 26000 | 29924 | 236 | 21.3 | 54 | 0.0 | 0.0 | 0.0 | 1355 |
| Jung 49DP441 | 32000 | 30050 | 238 | 21.5 | 54 | 0.0 | 0.0 | 0.0 | 1367 |
| Jung 49DP441 | 38000 | 38636 | 251 | 21.7 | 55 | 0.0 | 0.0 | 0.0 | 1438 |
| Jung 49DP441 | 44000 | 42171 | 254 | 22.1 | 55 | 0.0 | 0.0 | 0.0 | 1455 |
| Jung 49DP441 | 50000 | 45959 | 251 | 21.7 | 55 | 0.6 | 0.6 | 0.0 | 1439 |
| Mean | | 34953 | 245 | 24.1 | 54 | 0.2 | 0.2 | 0.1 | 1391 |
| <u>Probability(%)</u> | | | | | | | | | |
| Hybrid (H) | | 51.7 | 0.5 | 0.0 | 0.3 | 63.4 | 63.4 | 32.8 | 9.0 |
| Plant Density (D) | | 0.0 | 0.0 | 74.5 | 89.3 | 52.5 | 52.5 | 44.1 | 0.0 |
| Hybrid x Plant Density | | 34.4 | 4.7 | 36.0 | 97.5 | 36.9 | 36.9 | 44.1 | 5.0 |
| <u>LSD (0.10)</u> | | | | | | | | | |
| Hybrid (H) | | NS | 6 | 0.7 | 1 | NS | NS | NS | 32 |
| Plant Density (D) | | 3232 | 10 | NS | NS | NS | NS | NS | 56 |
| Hybrid x Plant Density | | NS | 14 | NS | NS | NS | NS | NS | 79 |

FIELD EXPERIMENT HISTORY

Title: Plant Density and Hybrid Influence on Corn Grain
Experiment: 02PD **Trial ID:** 6665 **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Hancock, WI **County:** Waushara
Supported By: HATCH

Site Information

Field: **Previous Crop:** Cucumber **Soil Type:** Plainfield Sand
Soil Test: **Date:** 9 /1 /22 **pH:** 5.8 **OM (%)** 0.9 **P (ppm)** 61 **K (ppm)** 108

Plot Management

Tillage Operations: Soil Finisher

| | | <u>Analysis:</u> | <u>Rate lbs/A:</u> | <u>Date:</u> |
|------------------------------|-----------------------------------|------------------------|---|-----------------------|
| Fertilizer: | Preplant : | N/A | N/A | N/A |
| | Starter : | 9-11-30-6S-1Zn | 18 lbs/A | 5 /4 /22 |
| | Post plant : | 21-0-024S | 32 lbs/A | N/A |
| | | 32-0-0 | 106 lbs/A | N/A |
| | | 34-0-0 | | N/A |
| | Manure: | N/A | N/A | N/A |
| Herbicide: | Prowl 2.0 pt/A Laudis 3.0 oz/A | | Insecticide: Force 6.5G 2.0 lbs/A | |
| Irrigation: | Irrigated | | Hybrid: See Factors | |
| Planting Date: | 5/4/22 | Planting Depth: | 1.5" | Row Width: 30" |
| Target Plant Density: | See Factors | | Planting Method: Almaco Plot Planter | |
| Harvest Date: | 10/19/22 | | Harvest Method: Massey 8XP | |

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.5 A
Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 34490

Factors/Treatments:

| <u>Target Plant Density:</u> | <u>Hybrid:</u> |
|------------------------------|-----------------------------|
| 1) 20000 | 1) Jung 49DP441 99RM |
| 2) 26000 | 2) Dairyland DS-4510Q 106RM |
| 3) 32000 | |
| 4) 38000 | |
| 5) 44000 | |
| 6) 50000 | |

Results: Tables 2202-07.

FIELD EXPERIMENT HISTORY

Title: Plant Density and Hybrid Influence on Corn Grain
Experiment: 02PD **Trial ID:** 6666 **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Janesville, WI **County:** Rock
Supported By: HATCH

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 9 /1 /22 **pH:** 5.9 **OM (%)** 2.6 **P (ppm)** 59 **K (ppm)** 190

Plot Management

Tillage Operations: Spring Chisel Field Cultivator

| | | <u>Analysis:</u> | <u>Rate lbs/A:</u> | <u>Date:</u> |
|--------------------|---------------------|------------------|--------------------|--------------|
| Fertilizer: | Preplant : | N/A | N/A | N/A |
| | Starter : | 9-11-30-6S-1Zn | 18 lbs/A | 5 /10/22 |
| | Post plant : | 21-0-0-24S | 11 lbs/A | N/A |
| | | 32-0-0 | 88 lbs/A | N/A |
| | | 46-0-0 | | N/A |
| | Manure: | N/A | N/A | N/A |

Herbicide: Acuron 3.0 qt/A **Insecticide:** Force 6.5G 2.0 lbs/A

Irrigation: None **Hybrid:** See Factors

Planting Date: 5/10/22 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: See Factors **Planting Method:** Almaco Plot Planter

Harvest Date: 10/21/22 **Harvest Method:** Massey 8XP

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.5 A
Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 35206

Factors/Treatments:

| <u>Target Plant Density:</u> | <u>Hybrid:</u> |
|------------------------------|-----------------------------|
| 1) 20000 | 1) Jung 49DP441 99RM |
| 2) 26000 | 2) Dairyland DS-4510Q 106RM |
| 3) 32000 | |
| 4) 38000 | |
| 5) 44000 | |
| 6) 50000 | |

Results: Tables 2202-08.

FIELD EXPERIMENT HISTORY

Title: Plant Density and Hybrid Influence on Corn Grain and Silage Performance
Experiment: 02PD **Trial ID:** 6667 **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Marshfield, WI **County:** Marathon
Supported By: HATCH

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Fenwood Silt Loam
Soil Test: **Date:** 9 /1 /22 **pH:** 6.6 **OM (%)** 2.7 **P (ppm)** 31 **K (ppm)** 113

Plot Management

Tillage Operations: Strip-Till Vertical-Till

| | | <u>Analysis:</u> | <u>Rate lbs/A:</u> | <u>Date:</u> |
|------------------------------|--------------------------|------------------------|-------------------------------------|-----------------------|
| Fertilizer: | Preplant : | N/A | N/A | N/A |
| | Starter : | 9-11-30-6S-1Zn | 18 lbs/A | 5 /16/22 |
| | Post plant : | 32-0-0 | 170 lbs/A | N/A |
| | Manure: | N/A | N/A | N/A |
| Herbicide: | Resicore 2.5 qt/A | | Insecticide: | Force 6.5G 2.0 lbs/A |
| Irrigation: | None | | Hybrid: | See Factors |
| Planting Date: | 5/16/22 | Planting Depth: | 1.5" | Row Width: 30" |
| Target Plant Density: | See Factors | | Planting Method: | Almaco Plot Planter |
| Harvest Date: | S: 9/23/22 G: 11/1/22 | Harvest Method: | S: New Holland 707 G: Massey 8XP | |

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 20' x 25' **Experiment Size:** 1.0 A
Harvest Plot Size: S: 2.5' x 23'
G: 5' x 23' **Harvest Plant Density:** 33943

Factors/Treatments:

| <u>Target Plant Density:</u> | <u>Hybrid :</u> |
|------------------------------|----------------------------|
| 1) 20000 | 1) Dekalb DKC43-75RIB 93RM |
| 2) 26000 | 2) Jung 49DP441 99RM |
| 3) 32000 | |
| 4) 38000 | |
| 5) 44000 | |
| 6) 50000 | |

Results: Tables 2202-09 & 2202-10.

**Table: 2202-09. Plant Density and Hybrid Influence on Corn Grain.
Marshfield, WI - 2022.**

| Hybrid | Target | Harvest | Yield | Moisture | Test | Lodged | | | AGR |
|------------------------------|----------|----------|-------|----------|--------|--------|-------|------|------|
| | density | density | | | | Total | Stalk | Root | |
| | plants/A | plants/A | bu/A | % | lbs/bu | % | % | % | \$/A |
| Dekalb DKC43-75RIB | | 33964 | 201 | 23.4 | 51 | 0.3 | 0.3 | - | 1143 |
| Jung 49DP441 | | 33922 | 194 | 26.7 | 48 | 0.2 | 0.2 | - | 1094 |
| | 20000 | 19634 | 171 | 23.6 | 50 | 0.0 | 0.0 | - | 972 |
| | 26000 | 23800 | 191 | 24.2 | 49 | 0.0 | 0.0 | - | 1084 |
| | 32000 | 31565 | 203 | 25.0 | 50 | 0.0 | 0.0 | - | 1150 |
| | 38000 | 37815 | 204 | 25.8 | 48 | 0.4 | 0.4 | - | 1157 |
| | 44000 | 42739 | 209 | 25.8 | 49 | 0.3 | 0.3 | - | 1180 |
| | 50000 | 48105 | 207 | 25.8 | 48 | 0.6 | 0.6 | - | 1169 |
| Dekalb DKC43-75RIB | 20000 | 19444 | 170 | 20.9 | 52 | 0.0 | 0.0 | - | 980 |
| Dekalb DKC43-75RIB | 26000 | 23737 | 193 | 21.8 | 51 | 0.0 | 0.0 | - | 1104 |
| Dekalb DKC43-75RIB | 32000 | 33712 | 204 | 23.9 | 52 | 0.0 | 0.0 | - | 1163 |
| Dekalb DKC43-75RIB | 38000 | 37121 | 212 | 24.1 | 50 | 0.7 | 0.7 | - | 1208 |
| Dekalb DKC43-75RIB | 44000 | 42676 | 210 | 25.1 | 50 | 0.0 | 0.0 | - | 1191 |
| Dekalb DKC43-75RIB | 50000 | 47095 | 214 | 24.6 | 49 | 0.8 | 0.8 | - | 1213 |
| Jung 49DP441 | 20000 | 19823 | 171 | 26.2 | 49 | 0.0 | 0.0 | - | 964 |
| Jung 49DP441 | 26000 | 23863 | 189 | 26.7 | 48 | 0.0 | 0.0 | - | 1064 |
| Jung 49DP441 | 32000 | 29419 | 201 | 26.1 | 48 | 0.0 | 0.0 | - | 1137 |
| Jung 49DP441 | 38000 | 38510 | 197 | 27.5 | 47 | 0.0 | 0.0 | - | 1105 |
| Jung 49DP441 | 44000 | 42802 | 207 | 26.5 | 47 | 0.6 | 0.6 | - | 1169 |
| Jung 49DP441 | 50000 | 49115 | 200 | 27.1 | 48 | 0.5 | 0.5 | - | 1125 |
| Mean | | 33943 | 197 | 25.0 | 49 | 0.2 | 0.2 | - | 1119 |
| <u>Probability(%)</u> | | | | | | | | | |
| Hybrid (H) | | 96.2 | 6.9 | 0.0 | 0.0 | 74.8 | 74.8 | - | 2.0 |
| Plant Density (D) | | 0.0 | 0.0 | 0.1 | 1.0 | 46.4 | 46.4 | - | 0.0 |
| Hybrid x Plant Density | | 40.1 | 67.5 | 0.7 | 19.3 | 66.8 | 66.8 | - | 70.2 |
| <u>LSD (0.10)</u> | | | | | | | | | |
| Hybrid (H) | | NS | 6 | 0.5 | 1 | NS | NS | - | 34 |
| Plant Density (D) | | 2598 | 10 | 0.9 | 1 | NS | NS | - | 58 |
| Hybrid x Plant Density | | NS | NS | 1.3 | NS | NS | NS | - | NS |

Table: 2202-10. Plant Density and Hybrid Influence on Silage Performance.
Marshfield, WI - 2022.

| Hybrid | Target density plants/A | Harvest density plants/A | Dry Matter | | Kernel milk % | KMR 0-5 | SMR 0-5 | VMR 0-10 | Crude | | In Vitro | | | Milk per | | |
|--------------------------|----------------------------|-----------------------------|--------------|------------|------------------|------------|------------|-------------|--------------|----------|----------|-------------|-----------|-------------|--------------|---------------|
| | | | Yield T/A | Moist % | | | | | protein % | ADF % | NDF % | Digest % | NDFD % | Starch % | Ton lbs/T | Acre lbs/A |
| Dekalb DKC43-75RIB | | 31944 | 8.6 | 69.9 | 62.1 | 3.1 | 2.7 | 5.9 | 7.4 | 20.0 | 38.8 | 85.7 | 63.3 | 29.7 | 3373 | 29082 |
| Jung 49DP441 | | 34890 | 9.0 | 72.4 | 72.5 | 3.6 | 2.9 | 6.6 | 7.9 | 21.1 | 40.2 | 85.3 | 63.4 | 26.9 | 3265 | 29495 |
| | 20000 | 23485 | 7.7 | 70.0 | 62.5 | 3.1 | 3.2 | 6.4 | 8.1 | 19.0 | 38.0 | 86.8 | 65.4 | 28.8 | 3360 | 25912 |
| | 26000 | 29293 | 8.8 | 70.7 | 71.2 | 3.6 | 3.0 | 6.6 | 7.7 | 20.1 | 38.9 | 86.0 | 64.2 | 28.5 | 3331 | 29336 |
| | 32000 | 31060 | 9.0 | 70.5 | 67.5 | 3.4 | 2.9 | 6.4 | 7.6 | 20.0 | 38.8 | 85.7 | 63.1 | 29.3 | 3351 | 30215 |
| | 38000 | 37499 | 8.8 | 71.6 | 68.7 | 3.4 | 2.7 | 6.1 | 7.5 | 21.0 | 40.0 | 85.0 | 62.5 | 28.2 | 3299 | 28886 |
| | 44000 | 39141 | 9.2 | 71.9 | 68.7 | 3.4 | 2.6 | 6.0 | 7.5 | 21.4 | 40.5 | 84.8 | 62.4 | 27.6 | 3284 | 30221 |
| | 50000 | 40025 | 9.5 | 72.1 | 65.0 | 3.3 | 2.5 | 5.8 | 7.6 | 21.8 | 40.8 | 84.7 | 62.4 | 27.5 | 3289 | 31162 |
| Dekalb DKC43-75RIB | 20000 | 19697 | 7.9 | 67.4 | 55.0 | 2.8 | 3.1 | 6.0 | 8.0 | 17.3 | 36.0 | 87.8 | 66.1 | 31.6 | 3480 | 27564 |
| Dekalb DKC43-75RIB | 26000 | 28787 | 8.7 | 69.4 | 57.5 | 2.9 | 2.8 | 5.7 | 7.4 | 19.7 | 38.4 | 86.3 | 64.2 | 29.5 | 3358 | 29197 |
| Dekalb DKC43-75RIB | 32000 | 25757 | 8.7 | 69.9 | 65.0 | 3.3 | 2.7 | 6.1 | 7.2 | 19.6 | 38.4 | 85.6 | 62.4 | 30.7 | 3402 | 29580 |
| Dekalb DKC43-75RIB | 38000 | 37878 | 8.6 | 70.0 | 57.5 | 2.9 | 2.5 | 5.5 | 7.3 | 20.5 | 39.4 | 85.4 | 63.0 | 29.4 | 3360 | 28912 |
| Dekalb DKC43-75RIB | 44000 | 40151 | 8.3 | 71.9 | 70.0 | 3.5 | 2.5 | 6.1 | 7.1 | 22.2 | 41.6 | 83.7 | 60.8 | 27.3 | 3254 | 27027 |
| Dekalb DKC43-75RIB | 50000 | 39393 | 9.5 | 70.8 | 67.5 | 3.4 | 2.5 | 6.0 | 7.5 | 20.6 | 39.0 | 85.7 | 63.3 | 29.6 | 3383 | 32212 |
| Jung 49DP441 | 20000 | 27272 | 7.5 | 72.6 | 70.0 | 3.5 | 3.3 | 6.9 | 8.2 | 20.7 | 40.1 | 85.9 | 64.8 | 26.0 | 3239 | 24260 |
| Jung 49DP441 | 26000 | 29798 | 8.9 | 72.0 | 85.0 | 4.3 | 3.2 | 7.5 | 8.1 | 20.6 | 39.5 | 85.8 | 64.2 | 27.5 | 3304 | 29474 |
| Jung 49DP441 | 32000 | 36363 | 9.3 | 71.1 | 70.0 | 3.5 | 3.1 | 6.7 | 8.0 | 20.4 | 39.2 | 85.8 | 63.7 | 27.8 | 3300 | 30849 |
| Jung 49DP441 | 38000 | 37121 | 8.9 | 73.2 | 80.0 | 4.0 | 2.8 | 6.8 | 7.7 | 21.5 | 40.5 | 84.6 | 62.0 | 26.9 | 3238 | 28859 |
| Jung 49DP441 | 44000 | 38131 | 10.1 | 72.0 | 67.5 | 3.4 | 2.7 | 6.0 | 7.9 | 20.6 | 39.3 | 85.9 | 64.1 | 27.9 | 3315 | 33414 |
| Jung 49DP441 | 50000 | 40656 | 9.4 | 73.5 | 62.5 | 3.1 | 2.4 | 5.5 | 7.7 | 23.0 | 42.5 | 83.7 | 61.6 | 25.3 | 3194 | 30112 |
| Mean | | 33417 | 8.8 | 71.2 | 67.3 | 3.4 | 2.8 | 6.2 | 7.7 | 20.5 | 39.5 | 85.5 | 63.3 | 28.3 | 3319 | 29288 |
| Probability(%) | | | | | | | | | | | | | | | | |
| Hybrid (H) | | 24.7 | 4.9 | 0.0 | 0.3 | 0.3 | 0.1 | 0.1 | 0.0 | 1.7 | 3.4 | 15.4 | 80.8 | 0.2 | 1.1 | 64.0 |
| Plant Density (D) | | 0.5 | 0.1 | 1.1 | 54.7 | 54.7 | 0.0 | 6.3 | 0.1 | 1.8 | 11.5 | 0.5 | 0.0 | 76.6 | 78.9 | 3.4 |
| Hybrid x Density (H x D) | | 64.4 | 5.3 | 1.1 | 2.8 | 2.8 | 19.5 | 0.6 | 11.4 | 8.2 | 8.5 | 1.1 | 0.2 | 35.5 | 31.8 | 6.2 |
| LSD (0.10) | | | | | | | | | | | | | | | | |
| Hybrid (H) | | NS | 0.3 | 0.6 | 5.0 | 0.2 | 0.1 | 0.3 | 0.1 | 0.8 | 1.1 | NS | NS | 1.4 | 66 | NS |
| Plant Density (D) | | 7372 | 0.6 | 1.1 | NS | NS | 0.2 | 0.4 | 0.2 | 1.3 | NS | 1.0 | 1.0 | NS | NS | 2588 |
| Hybrid x Density (H x D) | | NS | 0.8 | 1.5 | 12 | 0.6 | NS | 0.6 | NS | 1.9 | 2.6 | 1.3 | 1.4 | NS | NS | 3661 |

FIELD EXPERIMENT HISTORY

Title: Plant Density and Hybrid Influence on Corn Grain
Experiment: 02PD **Trial ID:** 6668 **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Montfort, WI **County:** Iowa
Supported By: HATCH

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Dodgeville Silt Loam
Soil Test: **Date:** 9 /1 /22 **pH:** 6.3 **OM (%)** 2.5 **P (ppm)** 64 **K (ppm)** 215

Plot Management

Tillage Operations: Disk Chisel Field Cultivator

| | | <u>Analysis:</u> | <u>Rate lbs/A:</u> | <u>Date:</u> |
|------------------------------|--|---|---------------------|-----------------------|
| Fertilizer: | Preplant : | 32-0-0 | 71 lbs/A | N/A |
| | | 12-0-0-26S | 7 lbs/A | N/A |
| | Starter : | 9-11-30-6S-1Zn | 18 lbs/A | 4 /29/22 |
| | Post plant : | N/A | N/A | N/A |
| | Manure: | Dairy | 10000 gal/A | N/A |
| Herbicide: | Atrazine 4L 32.0 oz/A Explorer 3.2 oz/A Roundup 25.6 oz/A Zidua 3.25 oz/A | | Insecticide: | Force 6.5G 2.0 lbs/A |
| Irrigation: | None | Hybrid: See Factors | | |
| Planting Date: | 4/29/22 | Planting Depth: | 1.5" | Row Width: 30" |
| Target Plant Density: | See Factors | Planting Method: Almaco Plot Planter | | |
| Harvest Date: | 10/10/22 | Harvest Method: Massey 8XP | | |

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.5 A
Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 25873

Factors/Treatments:

| <u>Target Plant Density:</u> | <u>Hybrid:</u> |
|------------------------------|-----------------------------|
| 1) 20000 | 1) Jung 49DP441 99RM |
| 2) 26000 | 2) Dairyland DS-4510Q 106RM |
| 3) 32000 | |
| 4) 38000 | |
| 5) 44000 | |
| 6) 50000 | |

Results: Tables 2202-11.

**Table: 2202-11. Plant Density and Hybrid Influence on Corn Grain.
Montfort, WI - 2022.**

| Hybrid | Target | Harvest | Yield | Moisture | Test | Lodged | | | AGR |
|------------------------------|----------|----------|-------|----------|--------|--------|-------|------|------|
| | density | density | | | | Total | Stalk | Root | |
| | plants/A | plants/A | bu/A | % | lbs/bu | % | % | % | \$/A |
| Dairyland DS-4510Q | | 25357 | 252 | 27.9 | 63 | 0.4 | 0.4 | 0.1 | 1417 |
| Jung 49DP441 | | 26389 | 251 | 20.5 | 55 | 0.0 | 0.0 | 0.0 | 1447 |
| | 20000 | 15846 | 195 | 24.2 | 54 | 0.0 | 0.0 | 0.0 | 1109 |
| | 26000 | 20770 | 231 | 24.9 | 78 | 0.0 | 0.0 | 0.0 | 1309 |
| | 32000 | 22979 | 242 | 25.1 | 54 | 0.0 | 0.0 | 0.0 | 1373 |
| | 38000 | 27841 | 266 | 23.5 | 54 | 1.3 | 1.3 | 0.0 | 1519 |
| | 44000 | 35101 | 289 | 22.9 | 54 | 0.0 | 0.0 | 0.0 | 1651 |
| | 50000 | 32702 | 287 | 24.6 | 61 | 0.2 | 0.0 | 0.2 | 1628 |
| Dairyland DS-4510Q | 20000 | 15278 | 184 | 27.5 | 53 | 0.0 | 0.0 | 0.0 | 1034 |
| Dairyland DS-4510Q | 26000 | 20202 | 226 | 28.3 | 101 | 0.0 | 0.0 | 0.0 | 1263 |
| Dairyland DS-4510Q | 32000 | 22979 | 241 | 29.3 | 53 | 0.0 | 0.0 | 0.0 | 1344 |
| Dairyland DS-4510Q | 38000 | 27146 | 262 | 26.7 | 53 | 2.5 | 2.5 | 0.0 | 1474 |
| Dairyland DS-4510Q | 44000 | 33838 | 308 | 26.6 | 54 | 0.0 | 0.0 | 0.0 | 1737 |
| Dairyland DS-4510Q | 50000 | 32702 | 295 | 29.0 | 67 | 0.4 | 0.0 | 0.4 | 1647 |
| Jung 49DP441 | 20000 | 16414 | 206 | 20.8 | 55 | 0.0 | 0.0 | 0.0 | 1184 |
| Jung 49DP441 | 26000 | 21338 | 236 | 21.4 | 55 | 0.0 | 0.0 | 0.0 | 1354 |
| Jung 49DP441 | 32000 | 22979 | 244 | 20.8 | 55 | 0.0 | 0.0 | 0.0 | 1402 |
| Jung 49DP441 | 38000 | 28535 | 271 | 20.3 | 56 | 0.0 | 0.0 | 0.0 | 1563 |
| Jung 49DP441 | 44000 | 36363 | 271 | 19.2 | 55 | 0.0 | 0.0 | 0.0 | 1566 |
| Jung 49DP441 | 50000 | 32702 | 279 | 20.1 | 56 | 0.0 | 0.0 | 0.0 | 1609 |
| Mean | | 25873 | 252 | 24.2 | 59 | 0.2 | 0.2 | 0.0 | 1432 |
| <u>Probability(%)</u> | | | | | | | | | |
| Hybrid (H) | | 35.1 | 74.9 | 0.0 | 34.8 | 34.8 | 34.8 | 32.8 | 20.5 |
| Plant Density (D) | | 0.0 | 0.0 | 16.9 | 50.8 | 46.9 | 46.9 | 44.1 | 0.0 |
| Hybrid x Plant Density | | 98.4 | 0.7 | 66.6 | 48.8 | 46.9 | 46.9 | 44.1 | 0.7 |
| <u>LSD (0.10)</u> | | | | | | | | | |
| Hybrid (H) | | NS | NS | 0.9 | NS | NS | NS | NS | NS |
| Plant Density (D) | | 3221 | 13 | NS | NS | NS | NS | NS | 68 |
| Hybrid x Plant Density | | NS | 18 | NS | NS | NS | NS | NS | 96 |

FIELD EXPERIMENT HISTORY

Title: Plant Density and Hybrid Influence on Corn Grain
Experiment: 02PD **Trial ID:** 6669 **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Seymour, WI **County:** Outagamie
Supported By: HATCH

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Onaway Silt Loam
Soil Test: **Date:** 9 /1 /22 **pH:** 7.1 **OM (%)** 2.1 **P (ppm)** 63 **K (ppm)** 112

Plot Management

Tillage Operations: Chisel Plow Field Cultivator

| | | <u>Analysis:</u> | <u>Rate lbs/A:</u> | <u>Date:</u> |
|--------------------|---------------------|------------------|--------------------|--------------|
| Fertilizer: | Preplant : | 18-46-0 | 27 lbs/A | N/A |
| | Starter : | 9-11-30-6S-1Zn | 18 lbs/A | 5 /11/22 |
| | Post plant : | 32-0-0 | 124 lbs/A | N/A |
| | Manure: | N/A | N/A | N/A |

Herbicide: Atrazine 0.75 lbs/A **Insecticide:** Force 6.5G 2.0 lbs/A
 Dual II Mag 1.0 pt/A
 Explorer 3.0 oz/A

Irrigation: None **Hybrid:** See Factors

Planting Date: 5/11/22 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: See Factors **Planting Method:** Almaco Plot Planter

Harvest Date: 10/27/22 **Harvest Method:** Massey 8XP

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.5 A
Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 35195

Factors/Treatments:

| <u>Target Plant Density:</u> | <u>Hybrid:</u> |
|------------------------------|----------------------------|
| 1) 20000 | 1) Dekalb DKC43-75RIB 93RM |
| 2) 26000 | 2) Jung 49DP441 99RM |
| 3) 32000 | |
| 4) 38000 | |
| 5) 44000 | |
| 6) 50000 | |

Results: Tables 2102-12.

FIELD EXPERIMENT HISTORY

Title: Plant Density and Hybrid Influence on Corn Grain
Experiment: 02PD **Trial ID:** 6670 **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Valders, WI **County:** Manitowoc
Supported By: HATCH

Site Information

Field: **Previous Crop:** Wheat **Soil Type:** Kewaunee Clay Loam
Soil Test: **Date:** 9 /1 /22 **pH:** 6.6 **OM (%)** 2.7 **P (ppm)** 77 **K (ppm)** 128

Plot Management

Tillage Operations: Chisel Plow Field Cultivator

| | | <u>Analysis:</u> | <u>Rate lbs/A:</u> | <u>Date:</u> |
|------------------------------|---|------------------------|-------------------------|-----------------------|
| Fertilizer: | Preplant : | N/A | N/A | N/A |
| | Starter : | 9-11-30-6S-1Zn | 18 lbs/A | 5 /13/22 |
| | Post plant : | 28-0-0-5S | 61 lbs/A | N/A |
| | Manure: | Dairy | 5000 gal/A | N/A |
| Herbicide: | Atrazine 1.0 lb/A Realm Q 3.0oz/A TripleFlex 3.0 qt/A Yukon 4.0 oz/A | | Insecticide: | Force 6.5G 2.0 lbs/A |
| Irrigation: | None | | Hybrid: | See Factors |
| Planting Date: | 5/13/22 | Planting Depth: | 1.5" | Row Width: 30" |
| Target Plant Density: | See Factors | | Planting Method: | Almaco Plot Planter |
| Harvest Date: | 10/26/22 | | Harvest Method: | Massey 8XP |

Experimental Design

| | | |
|------------------------------------|-------------------------------|-------|
| Design: RCB | Replications: | 3 |
| Plot Size Seeded: 10' x 25' | Experiment Size: | 0.5 A |
| Harvest Plot Size: 5' x 23' | Harvest Plant Density: | 33146 |

Factors/Treatments:

| <u>Target Plant Density:</u> | <u>Hybrid:</u> |
|------------------------------|----------------------------|
| 1) 20000 | 1) Dekalb DKC43-75RIB 93RM |
| 2) 26000 | 2) Jung 49DP441 99RM |
| 3) 32000 | |
| 4) 38000 | |
| 5) 44000 | |
| 6) 50000 | |

Results: Tables 2202-13.

**Table: 2202-13. Plant Density and Hybrid Influence on Corn Grain.
Valders, WI - 2022.**

| Hybrid | Target | Harvest | Yield | Moisture | Test | Lodged | | | AGR |
|------------------------------|----------|----------|-------|----------|--------|--------|-------|------|------|
| | density | density | | | | Total | Stalk | Root | |
| | plants/A | plants/A | bu/A | % | lbs/bu | % | % | % | \$/A |
| Dekalb DKC43-75RIB | | 34200 | 206 | 23.0 | 54 | 0.1 | 0.1 | 0.0 | 1175 |
| Jung 49DP441 | | 32091 | 226 | 29.4 | 51 | 0.5 | 0.5 | 0.1 | 1261 |
| | 20000 | 21297 | 197 | 26.6 | 52 | 0.0 | 0.0 | 0.0 | 1110 |
| | 26000 | 26316 | 216 | 26.9 | 53 | 0.0 | 0.0 | 0.0 | 1216 |
| | 32000 | 32323 | 226 | 26.4 | 53 | 0.2 | 0.2 | 0.0 | 1277 |
| | 38000 | 35669 | 217 | 25.9 | 53 | 0.4 | 0.4 | 0.0 | 1227 |
| | 44000 | 41224 | 219 | 27.0 | 53 | 0.0 | 0.0 | 0.0 | 1234 |
| | 50000 | 42045 | 219 | 24.5 | 53 | 1.4 | 1.4 | 0.2 | 1245 |
| Dekalb DKC43-75RIB | 20000 | 20751 | 188 | 23.7 | 53 | 0.0 | 0.0 | 0.0 | 1070 |
| Dekalb DKC43-75RIB | 26000 | 25864 | 205 | 24.1 | 53 | 0.0 | 0.0 | 0.0 | 1168 |
| Dekalb DKC43-75RIB | 32000 | 33712 | 211 | 23.8 | 54 | 0.4 | 0.4 | 0.0 | 1202 |
| Dekalb DKC43-75RIB | 38000 | 36363 | 212 | 21.0 | 55 | 0.4 | 0.4 | 0.0 | 1220 |
| Dekalb DKC43-75RIB | 44000 | 40909 | 214 | 24.1 | 54 | 0.0 | 0.0 | 0.0 | 1216 |
| Dekalb DKC43-75RIB | 50000 | 47600 | 205 | 21.5 | 54 | 0.0 | 0.0 | 0.0 | 1175 |
| Jung 49DP441 | 20000 | 21843 | 206 | 29.5 | 52 | 0.0 | 0.0 | 0.0 | 1151 |
| Jung 49DP441 | 26000 | 26767 | 227 | 29.8 | 52 | 0.0 | 0.0 | 0.0 | 1263 |
| Jung 49DP441 | 32000 | 30934 | 242 | 29.0 | 52 | 0.0 | 0.0 | 0.0 | 1352 |
| Jung 49DP441 | 38000 | 34974 | 222 | 30.8 | 50 | 0.4 | 0.4 | 0.0 | 1235 |
| Jung 49DP441 | 44000 | 41540 | 225 | 29.9 | 52 | 0.0 | 0.0 | 0.0 | 1252 |
| Jung 49DP441 | 50000 | 36489 | 234 | 27.6 | 51 | 2.9 | 2.9 | 0.4 | 1316 |
| Mean | | 33146 | 216 | 26.2 | 53 | 0.3 | 0.3 | 0.0 | 1218 |
| <u>Probability(%)</u> | | | | | | | | | |
| Hybrid (H) | | 7.7 | 0.0 | 0.0 | 0.0 | 23.0 | 23.0 | 36.9 | 0.1 |
| Plant Density (D) | | 0.0 | 1.6 | 50.9 | 99.8 | 18.1 | 18.1 | 49.8 | 1.7 |
| Hybrid x Plant Density | | 3.7 | 53.2 | 58.2 | 24.4 | 12.2 | 12.2 | 49.8 | 46.4 |
| <u>LSD (0.10)</u> | | | | | | | | | |
| Hybrid (H) | | 1949 | 7.0 | 1.4 | 1 | NS | NS | NS | 40 |
| Plant Density (D) | | 3372 | 12.1 | NS | NS | NS | NS | NS | 70 |
| Hybrid x Plant Density | | 4764 | NS | NS | NS | NS | NS | NS | NS |