

FIELD EXPERIMENT HISTORY

Title: Date of Planting and Hybrid Influence on Corn Forage and Corn Grain Yield
Experiment: 03DOP **Trial ID:** 6672 **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Arlington, WI **County:** Columbia
Supported By: HATCH

Site Information

Field: ARS372 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 9 /1 /22 **pH:** 6.4 **OM (%)** 2.5 **P (ppm)** 24 **K (ppm)** 134

Plot Management

Tillage Operations: Field Cultivator

| | | <u>Analysis:</u> | <u>Rate lbs/A:</u> | <u>Date:</u> |
|------------------------------|------------------------------|-----------------------------|---|--------------|
| Fertilizer: | Preplant : | 46-0-0 | 325 lbs/A | N/A |
| | Starter : | N/A | N/A | N/A |
| | Post plant : | N/A | N/A | N/A |
| | Manure: | N/A | N/A | N/A |
| Herbicide: | Dual II 1.5 pt/A | | Insecticide: None | |
| | Hornet 4.0 oz/A | | Hybrid: Factor | |
| Irrigation: | None | | | |
| Planting Date: | See Factors | Planting Depth: 1.5" | Row Width: 30" | |
| Target Plant Density: | 34000 plants per acre | | Planting Method: JD1700 w RTK | |
| Harvest Date: | S: See Factors G: 11/3/22 | | Harvest Method: S: New Holland 707 G: Massey Ferguson 8XP | |

Experimental Design

Design: RCB split-plot (2 x 4 Factorial for split) **Replications:** 4
Plot Size Seeded: 10' x 33' **Experiment Size:** 1.7 A
Harvest Plot Size: S: 30' x 2.5'
G: 30' x 5' **Harvest Plant Density:** 29377 plants per acre

Factors/Treatments:

| <u>Planting Date:</u> | <u>Hybrid:</u> | <u>Harvest Date:</u> |
|-----------------------|-----------------------|----------------------|
| 1) April 26 | 1) Dekalb DKC51-98RIB | 1) September 07 |
| 2) May 10 | 2) Jung549SS581 | 2) September 22 |
| 3) May 20 | | |
| 4) May 31 | | |
| 5) June 15 | | |

Results: Tables 2203-01, 2203-02 & 2203-03.

Table: 2203-01. Planting Date Influence on Corn Grain Performance.
Arlington, WI - 2022.

| Planting date | Hybrid | Test | | | Lodged | | | AGI \$/A | Silking date | Early dent | Kernel Milk | | | Black layer |
|-----------------------|--------------------|------------|------------|---------------|---------|---------|--------|----------|--------------|------------|-------------|---------|---------|-------------|
| | | Yield bu/A | Moisture % | weight lbs/bu | Total % | Stalk % | Root % | | | | 75% doy | 50% doy | 25% doy | |
| | Dekalb DKC51-98RIB | 207 | 19.5 | 55 | 2 | 2 | 1 | 1201 | 209 | 246 | 255 | 263 | 271 | 281 |
| | Jung 59SS581 | 216 | 26.5 | 53 | 3 | 2 | 1 | 1223 | 211 | 247 | 257 | 268 | 278 | 287 |
| Apr 26 | | 251 | 17.3 | 58 | 2 | 2 | 0 | 1459 | 200 | 231 | 244 | 252 | 261 | 270 |
| May 10 | | 237 | 18.5 | 56 | 2 | 2 | 0 | 1374 | 202 | 238 | 246 | 256 | 265 | 272 |
| May 20 | | 223 | 22.5 | 54 | 2 | 2 | 0 | 1274 | 208 | 247 | 257 | 266 | 276 | 288 |
| May 31 | | 206 | 25.4 | 53 | 5 | 1 | 4 | 1164 | 214 | 251 | 260 | 269 | 279 | 294 |
| Jun 15 | | 142 | 31.2 | 50 | 2 | 1 | 1 | 789 | 225 | 266 | 274 | 283 | 291 | 299 |
| Apr 26 | Dekalb DKC51-98RIB | 239 | 14.8 | 58 | 3 | 3 | 0 | 1397 | 197 | 231 | 244 | 251 | 258 | 265 |
| May 10 | Dekalb DKC51-98RIB | 226 | 15.6 | 58 | 2 | 2 | 0 | 1321 | 201 | 238 | 245 | 253 | 260 | 266 |
| May 20 | Dekalb DKC51-98RIB | 216 | 19.3 | 56 | 2 | 2 | 0 | 1252 | 207 | 247 | 256 | 264 | 272 | 284 |
| May 31 | Dekalb DKC51-98RIB | 206 | 20.7 | 55 | 3 | 0 | 3 | 1187 | 214 | 251 | 259 | 268 | 276 | 291 |
| Jun 15 | Dekalb DKC51-98RIB | 150 | 27.0 | 50 | 3 | 1 | 2 | 846 | 225 | 264 | 272 | 280 | 288 | 299 |
| Apr 26 | Jung 59SS581 | 263 | 19.8 | 57 | 1 | 1 | 0 | 1521 | 202 | 232 | 244 | 252 | 265 | 274 |
| May 10 | Jung 59SS581 | 248 | 21.4 | 55 | 1 | 1 | 0 | 1427 | 204 | 238 | 247 | 259 | 270 | 278 |
| May 20 | Jung 59SS581 | 229 | 25.8 | 53 | 2 | 2 | 0 | 1296 | 209 | 246 | 258 | 269 | 280 | 291 |
| May 31 | Jung 59SS581 | 205 | 30.2 | 51 | 8 | 3 | 6 | 1141 | 215 | 251 | 261 | 271 | 281 | 296 |
| Jun 15 | Jung 59SS581 | 134 | 35.3 | 49 | 1 | 1 | 0 | 731 | 225 | 267 | 277 | 287 | 295 | 299 |
| Mean | | 212 | 23.0 | 54 | 3 | 2 | 1 | 1212 | 210 | 246 | 256 | 265 | 274 | 284 |
| Probability(%) | | | | | | | | | | | | | | |
| Hybrid(H) | | 18.1 | 0.0 | 0.2 | 65.5 | 76.9 | 79.8 | 49.1 | 0.8 | 37.4 | 7.9 | 1.8 | 1.2 | 1.5 |
| PlantDate(P) | | 0.0 | 0.0 | 0.0 | 15.2 | 94.6 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HxP | | 6.9 | 1.6 | 0.1 | 17.5 | 65.6 | 49.7 | 7.2 | 0.2 | 29.5 | 47.0 | 21.7 | 75.6 | 14.2 |
| LSD (0.10) | | | | | | | | | | | | | | |
| Hybrid(H) | | NS | 1.0 | 1 | NS | NS | NS | NS | 1 | NS | 2 | 2 | 3 | 3 |
| PlantDate(P) | | 13 | 1.2 | 1 | NS | NS | 2 | 78 | 1 | 1 | 2 | 2 | 3 | 3 |
| HxP | | 19 | 1.6 | 1 | NS | NS | NS | 110 | 1 | NS | NS | NS | NS | NS |

Table: 2203-02. Planting Date and Harvest Timing Influence on Corn Silage Performance.

Arlington, WI - 2022.

| Planting date | Hybrid | Harvest date | Plant density plants/A | Whole Plant | | | | | | | | | | | | | |
|---------------|--------------------|--------------|---------------------------|--------------|------------|---------------|---------|---------|----------|-----------------|----------|-------|----------|--------|----------|-----------|------------|
| | | | | Dry Matter | | Kernel milk % | KMR 0-5 | SMR 0-5 | VMR 0-10 | Crude protein % | In Vitro | | | | | Milk per | |
| | | | | yield tons/A | Moisture % | | | | | | ADF % | NDF % | Digest % | NDFD % | Starch % | Ton lbs/T | Acre lbs/A |
| | Dekalb DKC51-98RIB | | 29753 | 8.7 | 64.0 | 55 | 2.8 | 2.5 | 5.2 | 7.9 | 19.4 | 37.7 | 85.6 | 61.8 | 30.8 | 3299 | 28995 |
| | Jung 59SS581 | | 29000 | 9.3 | 68.3 | 71 | 3.5 | 2.7 | 6.2 | 8.1 | 20.4 | 39.6 | 84.4 | 60.7 | 26.4 | 3089 | 29256 |
| Apr 26 | | | 30393 | 10.4 | 58.2 | 34 | 1.7 | 1.4 | 3.1 | 7.5 | 17.0 | 34.6 | 86.3 | 60.5 | 35.7 | 3396 | 35317 |
| May 10 | | | 30228 | 9.9 | 62.2 | 40 | 2.0 | 1.9 | 4.0 | 7.7 | 18.0 | 36.1 | 85.9 | 61.0 | 32.5 | 3339 | 33006 |
| May 20 | | | 26862 | 9.5 | 65.0 | 66 | 3.3 | 2.6 | 5.9 | 7.8 | 18.9 | 37.1 | 85.8 | 61.9 | 31.4 | 3333 | 31382 |
| May 31 | | | 30690 | 8.7 | 69.9 | 79 | 4.0 | 3.1 | 7.0 | 8.1 | 20.7 | 39.4 | 84.8 | 61.4 | 27.5 | 3210 | 28265 |
| Jun 15 | | | 28710 | 6.4 | 75.5 | 95 | 4.8 | 3.9 | 8.6 | 9.1 | 25.0 | 46.1 | 82.2 | 61.5 | 15.7 | 2691 | 17660 |
| | | Sept 07 | 29885 | 8.5 | 70.5 | 75 | 3.8 | 3.4 | 7.2 | 8.5 | 21.3 | 40.9 | 84.4 | 62.1 | 25.1 | 3140 | 27385 |
| | | Sept 22 | 28868 | 9.5 | 61.8 | 51 | 2.5 | 1.7 | 4.3 | 7.6 | 18.5 | 36.4 | 85.6 | 60.3 | 32.0 | 3248 | 30867 |
| Apr 26 | Dekalb DKC51-98RIB | | 31152 | 9.9 | 54.4 | 22 | 1.1 | 1.3 | 2.4 | 7.4 | 16.7 | 33.9 | 86.8 | 61.2 | 37.4 | 3431 | 33847 |
| May 10 | Dekalb DKC51-98RIB | | 30294 | 9.4 | 60.2 | 26 | 1.3 | 2.0 | 3.2 | 7.7 | 17.8 | 35.7 | 86.0 | 60.9 | 33.7 | 3374 | 31874 |
| May 20 | Dekalb DKC51-98RIB | | 26268 | 9.0 | 63.4 | 58 | 2.9 | 2.5 | 5.4 | 7.6 | 18.5 | 36.3 | 86.3 | 62.2 | 33.3 | 3424 | 30608 |
| May 31 | Dekalb DKC51-98RIB | | 31284 | 8.8 | 67.5 | 76 | 3.8 | 2.8 | 6.6 | 7.8 | 19.7 | 37.8 | 85.7 | 62.3 | 30.8 | 3374 | 29866 |
| Jun 15 | Dekalb DKC51-98RIB | | 29766 | 6.4 | 74.6 | 94 | 4.7 | 3.7 | 8.4 | 9.2 | 24.3 | 44.9 | 83.0 | 62.2 | 18.6 | 2891 | 18779 |
| Apr 26 | Jung 59SS581 | | 29634 | 10.9 | 62.0 | 46 | 2.3 | 1.6 | 3.9 | 7.6 | 17.3 | 35.2 | 85.9 | 59.8 | 34.0 | 3361 | 36786 |
| May 10 | Jung 59SS581 | | 30162 | 10.3 | 64.1 | 55 | 2.8 | 1.9 | 4.7 | 7.8 | 18.1 | 36.4 | 85.8 | 61.0 | 31.4 | 3304 | 34138 |
| May 20 | Jung 59SS581 | | 27456 | 10.0 | 66.6 | 74 | 3.7 | 2.6 | 6.3 | 7.9 | 19.3 | 37.9 | 85.4 | 61.5 | 29.5 | 3241 | 32155 |
| May 31 | Jung 59SS581 | | 30096 | 8.7 | 72.3 | 82 | 4.1 | 3.3 | 7.4 | 8.4 | 21.8 | 41.0 | 83.8 | 60.5 | 24.3 | 3047 | 26663 |
| Jun 15 | Jung 59SS581 | | 27654 | 6.5 | 76.4 | 97 | 4.8 | 4.1 | 8.9 | 9.0 | 25.7 | 47.3 | 81.4 | 60.8 | 12.8 | 2491 | 16540 |
| | Dekalb DKC51-98RIB | Sept 07 | 29964 | 8.2 | 69.1 | 71 | 3.6 | 3.4 | 6.9 | 8.4 | 20.7 | 39.8 | 85.3 | 63.1 | 27.7 | 3294 | 27648 |
| | Dekalb DKC51-98RIB | Sept 22 | 29542 | 9.2 | 59.0 | 39 | 2.0 | 1.5 | 3.5 | 7.4 | 18.1 | 35.7 | 85.9 | 60.4 | 33.9 | 3303 | 30342 |
| | Jung 59SS581 | Sept 07 | 29806 | 8.8 | 71.9 | 80 | 4.0 | 3.5 | 7.4 | 8.5 | 22.0 | 42.1 | 83.6 | 61.1 | 22.6 | 2986 | 27121 |
| | Jung 59SS581 | Sept 22 | 28195 | 9.8 | 64.7 | 62 | 3.1 | 1.9 | 5.1 | 7.8 | 18.9 | 37.1 | 85.3 | 60.3 | 30.2 | 3192 | 31391 |
| Apr 26 | | Sept 07 | 30360 | 10.3 | 64.3 | 50 | 2.5 | 2.3 | 4.8 | 7.8 | 17.5 | 35.3 | 86.6 | 62.1 | 34.2 | 3500 | 35919 |
| Apr 26 | | Sept 22 | 30426 | 10.5 | 52.1 | 18 | 0.9 | 0.5 | 1.4 | 7.3 | 16.5 | 33.8 | 86.1 | 58.9 | 37.3 | 3291 | 34714 |
| May 10 | | Sept 07 | 30954 | 10.0 | 65.4 | 55 | 2.8 | 3.0 | 5.7 | 8.0 | 18.5 | 37.0 | 86.2 | 62.7 | 31.1 | 3400 | 34059 |
| May 10 | | Sept 22 | 29502 | 9.7 | 58.9 | 26 | 1.3 | 0.9 | 2.2 | 7.5 | 17.4 | 35.1 | 85.7 | 59.2 | 33.9 | 3279 | 31952 |
| May 20 | | Sept 07 | 28446 | 8.9 | 69.8 | 81 | 4.0 | 3.5 | 7.5 | 8.1 | 19.6 | 38.4 | 86.0 | 63.6 | 29.0 | 3340 | 29743 |
| May 20 | | Sept 22 | 25278 | 10.0 | 60.2 | 51 | 2.6 | 1.7 | 4.2 | 7.5 | 18.2 | 35.9 | 85.7 | 60.1 | 33.8 | 3325 | 33020 |
| May 31 | | Sept 07 | 30822 | 7.9 | 73.7 | 91 | 4.5 | 3.9 | 8.4 | 8.5 | 22.5 | 42.2 | 84.0 | 62.3 | 23.3 | 3073 | 24345 |
| May 31 | | Sept 22 | 30558 | 9.6 | 66.1 | 68 | 3.4 | 2.2 | 5.6 | 7.7 | 18.9 | 36.7 | 85.5 | 60.4 | 31.8 | 3348 | 32185 |
| Jun 15 | | Sept 07 | 28842 | 5.4 | 79.3 | 100 | 5.0 | 4.3 | 9.4 | 10.0 | 28.5 | 51.6 | 79.4 | 60.0 | 8.0 | 2387 | 12857 |
| Jun 15 | | Sept 22 | 28578 | 7.5 | 71.8 | 91 | 4.5 | 3.4 | 7.9 | 8.2 | 21.5 | 40.5 | 85.0 | 63.0 | 23.4 | 2995 | 22462 |

continued

Table: 2203-03. Planting Date and Hybrid Influence on Corn Leaf Development.
Arlington, WI - 2022.

| Hybrid | Date of planting | Observation date | Leaf Development | | | Plant height |
|--------|------------------|------------------|------------------|-----------------------|--------------|--------------|
| | | | Leaf collars | Hail adjusters method | Total leaves | |
| | | | no./plant | no./plant | no./plant | |
| | | day of year | | | | inches |
| | | 151 | 3.3 | 4.5 | 4.1 | 5.2 |
| | | 165 | 2.8 | 5.2 | 6.4 | 9.0 |
| | | 179 | 7.0 | 9.4 | 10.8 | 26.9 |
| | | 193 | 10.8 | 12.8 | 14.3 | 55.3 |
| | | 207 | 15.7 | 16.5 | 17.2 | 83.1 |
| | | 221 | 18.1 | 18.2 | 18.5 | 100.3 |
| | Apr 26 | | 11.2 | 12.7 | 13.6 | 55.9 |
| | May 10 | | 10.9 | 12.5 | 13.4 | 54.0 |
| | May 20 | | 10.9 | 12.3 | 11.4 | 48.6 |
| | May 31 | | 9.7 | 10.9 | 12.0 | 48.6 |
| | Jun 15 | | 10.7 | 12.3 | 13.6 | 53.1 |
| | Apr 26 | 151 | 3.6 | 4.9 | 5.9 | 7.4 |
| | Apr 26 | 165 | 4.0 | 7.8 | 9.2 | 14.8 |
| | Apr 26 | 179 | 8.8 | 11.5 | 12.9 | 39.4 |
| | Apr 26 | 193 | 14.4 | 15.4 | 16.4 | 79.6 |
| | Apr 26 | 207 | 18.2 | 18.3 | 18.4 | 93.6 |
| | Apr 26 | 221 | 18.4 | 18.6 | 18.8 | 100.5 |
| | May 10 | 151 | 3.0 | 4.2 | 5.1 | 6.1 |
| | May 10 | 165 | 3.4 | 7.1 | 8.4 | 12.1 |
| | May 10 | 179 | 8.3 | 11.1 | 12.6 | 34.9 |
| | May 10 | 193 | 13.8 | 15.3 | 16.4 | 73.4 |
| | May 10 | 207 | 19.0 | 19.0 | 19.3 | 95.8 |
| | May 10 | 221 | 19.1 | 19.1 | 19.4 | 101.6 |
| | May 20 | 151 | - | - | 1.4 | 2.2 |
| | May 20 | 165 | 2.6 | 4.0 | 5.2 | 6.1 |
| | May 20 | 179 | 5.9 | 8.4 | 9.8 | 20.0 |
| | May 20 | 193 | 10.3 | 13.1 | 15.2 | 59.1 |
| | May 20 | 207 | 16.7 | 16.8 | 17.8 | 96.9 |
| | May 20 | 221 | 18.9 | 18.9 | 18.9 | 107.4 |
| | May 31 | 151 | - | - | - | - |
| | May 31 | 165 | 1.0 | 1.7 | 2.9 | 3.2 |
| | May 31 | 179 | 5.0 | 6.7 | 7.9 | 13.4 |
| | May 31 | 193 | 9.6 | 12.1 | 13.9 | 43.5 |
| | May 31 | 207 | 14.2 | 15.4 | 16.4 | 79.1 |
| | May 31 | 221 | 18.5 | 18.5 | 18.6 | 103.8 |

Continued

Table: 2203-03. Planting Date and Hybrid Influence on Corn Leaf Development.

(continued) Arlington, WI - 2022.

| Hybrid | Date of planting | Observation date | Leaf Development | | | Plant height |
|--------------------|------------------|------------------|------------------|-----------------------|--------------|--------------|
| | | | Leaf collars | Hail adjusters method | Total leaves | |
| | | | no./plant | no./plant | no./plant | |
| | | day of year | | | | inches |
| | Jun 15 | 151 | - | - | - | - |
| | Jun 15 | 165 | - | - | - | - |
| | Jun 15 | 179 | - | - | - | - |
| | Jun 15 | 193 | 6.1 | 8.3 | 9.6 | 20.8 |
| | Jun 15 | 207 | 10.6 | 12.8 | 14.1 | 49.9 |
| | Jun 15 | 221 | 15.5 | 15.9 | 17.1 | 88.4 |
| Dekalb DKC51-98RIB | | | 10.6 | 12.0 | 12.6 | 50.8 |
| Jung 59SS581 | | | 10.8 | 12.3 | 12.9 | 53.3 |
| Dekalb DKC51-98RIB | | 151 | 3.4 | 4.4 | 4.1 | 5.3 |
| Dekalb DKC51-98RIB | | 165 | 2.8 | 5.0 | 6.3 | 9.1 |
| Dekalb DKC51-98RIB | | 179 | 6.8 | 9.3 | 10.7 | 26.0 |
| Dekalb DKC51-98RIB | | 193 | 10.9 | 12.7 | 14.1 | 54.4 |
| Dekalb DKC51-98RIB | | 207 | 15.5 | 16.1 | 17.0 | 81.1 |
| Dekalb DKC51-98RIB | | 221 | 17.8 | 17.9 | 18.2 | 97.3 |
| Jung 59SS581 | | 151 | 3.3 | 4.6 | 4.1 | 5.1 |
| Jung 59SS581 | | 165 | 2.8 | 5.3 | 6.5 | 8.9 |
| Jung 59SS581 | | 179 | 7.1 | 9.6 | 10.9 | 27.9 |
| Jung 59SS581 | | 193 | 10.7 | 13.0 | 14.5 | 56.1 |
| Jung 59SS581 | | 207 | 16.0 | 16.8 | 17.5 | 85.0 |
| Jung 59SS581 | | 221 | 18.4 | 18.6 | 18.9 | 103.4 |
| Dekalb DKC51-98RIB | Apr 26 | | 11.0 | 12.3 | 13.3 | 53.2 |
| Dekalb DKC51-98RIB | Jun 15 | | 10.9 | 12.4 | 13.7 | 52.7 |
| Dekalb DKC51-98RIB | May 10 | | 10.9 | 12.4 | 13.3 | 52.9 |
| Dekalb DKC51-98RIB | May 20 | | 10.7 | 11.9 | 11.1 | 47.4 |
| Dekalb DKC51-98RIB | May 31 | | 9.7 | 10.9 | 11.9 | 48.3 |
| Jung 59SS581 | Apr 26 | | 11.5 | 13.1 | 13.9 | 58.6 |
| Jung 59SS581 | Jun 15 | | 10.6 | 12.3 | 13.5 | 53.4 |
| Jung 59SS581 | May 10 | | 10.9 | 12.7 | 13.5 | 55.0 |
| Jung 59SS581 | May 20 | | 11.1 | 12.6 | 11.6 | 49.8 |
| Jung 59SS581 | May 31 | | 9.6 | 10.9 | 12.0 | 48.9 |
| Dekalb DKC51-98RIB | Apr 26 | 151 | 3.8 | 4.9 | 5.9 | 7.4 |
| Dekalb DKC51-98RIB | Apr 26 | 165 | 4.0 | 7.3 | 8.9 | 14.8 |
| Dekalb DKC51-98RIB | Apr 26 | 179 | 8.5 | 11.3 | 12.8 | 36.6 |
| Dekalb DKC51-98RIB | Apr 26 | 193 | 14.1 | 15.0 | 16.0 | 76.9 |
| Dekalb DKC51-98RIB | Apr 26 | 207 | 17.4 | 17.5 | 17.9 | 88.8 |
| Dekalb DKC51-98RIB | Apr 26 | 221 | 18.1 | 18.1 | 18.3 | 94.5 |

Continued

Table: 2203-03. Planting Date and Hybrid Influence on Corn Leaf Development.

(continued) Arlington, WI - 2022.

| Hybrid | Date of planting | Observation date | Leaf Development | | | Plant height |
|--------------------|------------------|------------------|------------------|-----------------------|--------------|--------------|
| | | | Leaf collars | Hail adjusters method | Total leaves | |
| | | | no./plant | no./plant | no./plant | |
| | | day of year | | | | inches |
| Dekalb DKC51-98RIB | May 10 | 151 | 3.0 | 4.0 | 5.0 | 6.0 |
| Dekalb DKC51-98RIB | May 10 | 165 | 3.4 | 7.1 | 8.4 | 12.3 |
| Dekalb DKC51-98RIB | May 10 | 179 | 8.1 | 11.0 | 12.5 | 34.5 |
| Dekalb DKC51-98RIB | May 10 | 193 | 14.4 | 15.3 | 16.3 | 73.8 |
| Dekalb DKC51-98RIB | May 10 | 207 | 18.1 | 18.1 | 18.6 | 92.1 |
| Dekalb DKC51-98RIB | May 10 | 221 | 18.6 | 18.6 | 19.0 | 99.0 |
| Dekalb DKC51-98RIB | May 20 | 151 | - | - | 1.5 | 2.6 |
| Dekalb DKC51-98RIB | May 20 | 165 | 2.6 | 3.9 | 5.3 | 6.2 |
| Dekalb DKC51-98RIB | May 20 | 179 | 5.8 | 8.3 | 9.8 | 18.9 |
| Dekalb DKC51-98RIB | May 20 | 193 | 10.4 | 12.8 | 14.8 | 57.3 |
| Dekalb DKC51-98RIB | May 20 | 207 | 16.8 | 16.8 | 17.6 | 95.8 |
| Dekalb DKC51-98RIB | May 20 | 221 | 18.0 | 18.0 | 18.0 | 103.8 |
| Dekalb DKC51-98RIB | May 31 | 151 | | | | |
| Dekalb DKC51-98RIB | May 31 | 165 | 1.0 | 1.6 | 2.9 | 3.3 |
| Dekalb DKC51-98RIB | May 31 | 179 | 5.0 | 6.6 | 7.9 | 14.1 |
| Dekalb DKC51-98RIB | May 31 | 193 | 9.6 | 12.3 | 14.1 | 43.0 |
| Dekalb DKC51-98RIB | May 31 | 207 | 14.4 | 15.4 | 16.4 | 79.9 |
| Dekalb DKC51-98RIB | May 31 | 221 | 18.4 | 18.4 | 18.4 | 101.3 |
| Dekalb DKC51-98RIB | Jun 15 | 151 | - | - | - | - |
| Dekalb DKC51-98RIB | Jun 15 | 165 | - | - | - | - |
| Dekalb DKC51-98RIB | Jun 15 | 179 | - | - | - | - |
| Dekalb DKC51-98RIB | Jun 15 | 193 | 6.1 | 8.1 | 9.5 | 21.3 |
| Dekalb DKC51-98RIB | Jun 15 | 207 | 10.8 | 12.9 | 14.3 | 49.0 |
| Dekalb DKC51-98RIB | Jun 15 | 221 | 15.8 | 16.1 | 17.3 | 87.9 |
| Jung 59SS581 | Apr 26 | 151 | 3.5 | 4.9 | 5.9 | 7.4 |
| Jung 59SS581 | Apr 26 | 165 | 4.0 | 8.4 | 9.5 | 14.8 |
| Jung 59SS581 | Apr 26 | 179 | 9.0 | 11.8 | 13.1 | 42.3 |
| Jung 59SS581 | Apr 26 | 193 | 14.6 | 15.8 | 16.9 | 82.3 |
| Jung 59SS581 | Apr 26 | 207 | 19.0 | 19.0 | 19.0 | 98.5 |
| Jung 59SS581 | Apr 26 | 221 | 18.8 | 19.0 | 19.3 | 106.5 |
| Jung 59SS581 | May 10 | 151 | 3.0 | 4.4 | 5.1 | 6.3 |
| Jung 59SS581 | May 10 | 165 | 3.5 | 7.1 | 8.4 | 11.8 |
| Jung 59SS581 | May 10 | 179 | 8.4 | 11.1 | 12.6 | 35.4 |
| Jung 59SS581 | May 10 | 193 | 13.3 | 15.4 | 16.6 | 73.1 |
| Jung 59SS581 | May 10 | 207 | 19.9 | 19.9 | 19.9 | 99.4 |
| Jung 59SS581 | May 10 | 221 | 19.8 | 19.8 | 19.8 | 104.1 |

Continued

Table: 2203-03. Planting Date and Hybrid Influence on Corn Leaf Development.

(continued) Arlington, WI - 2022.

| Hybrid | Date of planting | Observation date | Leaf Development | | | Plant height |
|-----------------------|------------------|------------------|------------------|-----------------------|--------------|--------------|
| | | | Leaf collars | Hail adjusters method | Total leaves | |
| | | day of year | no./plant | no./plant | no./plant | inches |
| Jung 59SS581 | May 20 | 151 | - | - | 1.3 | 1.8 |
| Jung 59SS581 | May 20 | 165 | 2.6 | 4.1 | 5.1 | 5.9 |
| Jung 59SS581 | May 20 | 179 | 6.0 | 8.6 | 9.9 | 21.2 |
| Jung 59SS581 | May 20 | 193 | 10.1 | 13.4 | 15.6 | 60.9 |
| Jung 59SS581 | May 20 | 207 | 16.6 | 16.9 | 17.9 | 98.0 |
| Jung 59SS581 | May 20 | 221 | 19.9 | 19.9 | 19.9 | 110.9 |
| Jung 59SS581 | May 31 | 151 | - | - | - | - |
| Jung 59SS581 | May 31 | 165 | 1.0 | 1.8 | 3.0 | 3.1 |
| Jung 59SS581 | May 31 | 179 | 5.0 | 6.8 | 7.9 | 12.6 |
| Jung 59SS581 | May 31 | 193 | 9.5 | 11.9 | 13.8 | 44.0 |
| Jung 59SS581 | May 31 | 207 | 14.0 | 15.5 | 16.5 | 78.3 |
| Jung 59SS581 | May 31 | 221 | 18.6 | 18.6 | 18.8 | 106.3 |
| Jung 59SS581 | Jun 15 | 151 | - | - | - | - |
| Jung 59SS581 | Jun 15 | 165 | - | - | - | - |
| Jung 59SS581 | Jun 15 | 179 | - | - | - | - |
| Jung 59SS581 | Jun 15 | 193 | 6.1 | 8.4 | 9.6 | 20.4 |
| Jung 59SS581 | Jun 15 | 207 | 10.4 | 12.6 | 14.0 | 50.9 |
| Jung 59SS581 | Jun 15 | 221 | 15.3 | 15.8 | 17.0 | 88.9 |
| | | | 10.7 | 12.2 | 12.7 | 52.0 |
| <u>Probability(%)</u> | | | | | | |
| Hybrid(H) | | | 0.2 | 0.5 | 0.5 | 89.8 |
| Date of Planting (D) | | | 0.0 | 0.0 | 0.0 | 0.0 |
| HxD | | | 0.3 | 0.0 | 0.0 | 0.9 |
| Sample DOY (S) | | | 0.0 | 0.0 | 0.0 | 0.0 |
| H x S | | | 0.1 | 2.1 | 0.1 | 0.3 |
| DxS | | | 0.0 | 0.0 | 0.0 | 0.0 |
| HxDxS | | | 0.0 | 3.5 | 32.1 | 91.6 |
| <u>LSD(0.10)</u> | | | | | | |
| Hybrid(H) | | | 0.3 | 0.3 | 0.3 | NS |
| Date of Planting (D) | | | 0.1 | 0.1 | 0.1 | 1.1 |
| HxD | | | 0.2 | 0.2 | 0.2 | 1.6 |
| Sample DOY (S) | | | 0.2 | 0.2 | 0.2 | 1.2 |
| H x S | | | 0.2 | 0.2 | 0.2 | 1.7 |
| DxS | | | 0.4 | 0.4 | 0.3 | 2.7 |
| HxDxS | | | 0.5 | 0.5 | NS | NS |