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DELAWARE HYBRID FIELD CORN PERFORMANCE TRIALS

Teclemariam Weldekidan
Scientist
Department of Plant and Soil Sciences

Dr. Erin Sparks
Assistant Professor
Department of Plant and Soil Sciences
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DELAWARE HYBRID FIELD CORN PERFORMANCE TRIALS – 2022

The 2022 Delaware hybrid field corn trials were conducted jointly by the University of Delaware's Agricultural Experiment Station and the Delaware Cooperative Extension Service, College of Agriculture and Natural Resources. Forty-eight hybrids were evaluated at four locations: Emerson Farms at Middletown, DE (dryland), Thomas Family Farms at Camden Wyoming, DE (center pivot irrigation), Plum Creek Farms, LLC at Laurel, DE (center pivot irrigation) and Carvel Research & Education Center at Georgetown, DE (lateral move irrigation). Hybrids were divided into three relative maturity groups; early 101-110 (15 entries), early-medium 111-114 (20 entries) and medium 115-120 days (13 entries). The hybrids tested are being sold for commercial planting or are on a clear track for commercial planting (e.g. within one or two years of access to farmers). Plans and rules for entering these trials are available upon request.

Methodology

A randomized, complete block design with four replications was used in all tests. Four-row plots (experimental units) were planted with a Monosem Step 4 controls air planter. The center two rows of each plot were harvested with a small plot combine. Tillage and cultural practices are noted in Table 1. Temperature and rainfall information is taken at or nearest test locations from DEOS (http://www.deos.udel.edu). The raw data used to plot the Growing Degree Day (GDD) and rainfall graphs is presented in Table 2. The GDD was calculated by subtracting 50 from the average daily temperature ((Max. Temp + Min. Temp)/2)-50). If the daily high temperature was greater than 86 degrees Fahrenheit, then 86 degrees is used and if the daily low was less than 50 degrees then 50 degrees Fahrenheit was used to calculate the average. The weather data for Emerson Farms, Middletown was taken from Townsend, DE-REC, for Thomas Family Farms, Camden Wyoming from Dover, DE-SFS, for Plum Creek Farms, LLC, Laurel from Laurel, DE Airport and for the Carvel Research & Education Center, Georgetown was taken from DE-REC stations. Data were analyzed by analysis of variance and hybrids were ranked by yield in each test.

Traits Measured

• Yield was recorded in bushels per acre on the basis of 56 lb/bu and adjusted to 15.5% moisture.
• Percent moisture is the actual percentage of grain moisture at harvest determined by a grain analysis computer (HarvestMaster Classic GrainGage from Juniper Systems).
• Yield/Moisture (Y/M) is the yield in bu/A (adjusted to 15.5% moisture) divided by the grain harvest moisture.
• Test weight is measured in pounds per bushel determined by a grain analysis computer (HarvestMaster Classic GrainGage from Juniper Systems).
• Final population is the plant population extrapolated from plot data for each hybrid to an acre scale taken at flowering time.
• Percent stalk lodging is the percentage of plants that were broken below the ear.
• Percent root lodging is the percentage of plants that had lodged more than 30°.

**C.V. and L.S.D.**

The coefficient of variation (C.V.) is a measurement of the amount of uncontrollable variability due to differences in the soil, weather, fertility, etc. A C.V. below 15% is considered good. Please note that the C.V. is expected to be higher at dryland locations.

The least significant difference (L.S.D.; computed at a 5% level of probability) is a tool to determine if two average values are significantly different. The difference between two hybrids must exceed the L.S.D. value to be considered significantly different from one another. Example for yield: L.S.D. = 25 bu/A, hybrid X = 120 bu/A, hybrid Y = 150 bu/A. The difference between X and Y (30 bu/A) exceeds the L.S.D. (25 bu/A). Therefore, hybrid X has a significantly lower yield performance than hybrid Y.

**Note**

When reviewing the enclosed data, it is important to note moisture percentages when comparing hybrids within the same maturity group. Comparisons should not be made between hybrids of different maturity groups since these are separate tests. These results are based on one year’s data only and should be considered as preliminary results. Hybrid performance may vary from location to location and from year to year because of differences in rainfall, temperature, soil type, soil fertility, diseases, insects, and a variety of other factors. Growers will obtain the best estimate of individual hybrid performance by looking at performance data over several years and across locations. We have provided a column for each maturity group with the average performance of hybrids over all locations.

**HOW TO BEST USE CORN HYBRID PERFORMANCE TRIAL INFORMATION**

Information presented in this summary may be useful in selecting corn hybrids for production in Delaware. To maximize the usefulness of this information, follow these suggestions:

1. Select the test location that best represents your production location. Generally, corn hybrids are widely adapted across Delaware but certain soil or climatic conditions, cultural practices, or insect/disease problems may limit the choice of an entry.

2. Multiple-year average (means) across the greatest number of years are the best predictors of performance. Refer to previous test reports for information to evaluate corn hybrids which are of interest to you. Comparison between your selected hybrid and the grand mean for that maturity group will be helpful in identifying superior hybrids. When evaluating test results
across years or locations, we recommend that you give preference to trials with a C.V. less than 15%. Growers should also consider the cultural practices used for each trial.

3. Check the grand mean for the long-term averages and compare with your own production experience. If your yields have been consistently below these grand mean levels, you should evaluate each part of your management system for potential areas of improvement.

4. Using long-term averages, select the hybrid or hybrids with which you are best acquainted or are currently using on your farm. Use these hybrids as “bench marks” when comparing new hybrids. Identify those hybrids which have over years produced yields higher than your selected bench mark hybrid. Consider hybrids with high yields and lower grain moisture (high Y/M numbers). Hybrids with high stalk and root lodging percentages should be avoided.

5. We are including one or more corn hybrids to act as ‘Check’ hybrids for producers. We have tried to select check hybrids which will represent the newest and best genetics coming out of commercial programs.

Summary of Results

The 2022 growing season was characterized by low temperature and adequate moisture conditions during planting. We had an extended dry period from late July during the flowering and ear development period and this had affected the yield performance for the Middletown dryland location. The Middletown dryland location received a total of 0 inches of rain from July 20-30, which is at the time of flowering and ear development period. A windstorm on July 12 blew a metal roof sheet from an old farm barn to the corn field and caused some stalk damage.

In 2022, the Delaware corn hybrid performance yield tests averaged, 249, 258 and 255 bu/A compared to the 2021 yield which averaged 260, 269 and 266 bu/A across the three irrigated locations for the early, early-medium and medium maturity groups, respectively. In the dryland location, average yields in 2022 were 172, 155 and 156 bu/A for the early, early-medium and medium maturity groups, respectively. The corresponding average yields in 2021 were 116, 117 and 121 bu/A for the early, early-medium and medium maturity groups, respectively. The result of our yield test shows that the grain yield averaged across the irrigated locations and maturity groups in 2022 was 4.2% lower than in 2021, whereas in the dryland locations it was 36% higher than in 2021. The grain yield averaged across all locations and maturity groups was 8% higher than in 2021.

Middletown: The average soil temperature at Townsend, DE-REC the nearest station to Emerson Farms, New Castle County; dryland, in April was 53.0 °F and 63.8 in May. A 50 °F soil temperature is considered the minimum temperature for corn germination. This soil
temperature is above the minimum 50 °F soil temperature required for corn germination. A Growing Degree Days (GDD) of 90 to 120 is required for corn germination. A 75.7 GDD was accumulated in the ten days after planting (April 28). Even though this location accumulated 75.7 GDD in the first ten days after planting (April 28) the germination was delayed. The cumulative GDD for the hybrids with the relative maturity of 101-110, 111-114 & 115-120 was 1982-2218, 2237-2300 & 2326-2454, respectively (Figure 1).

Middletown, the dryland location received a total of 5.62, 1.14, 3.41 and 1.05 inches of rainfall in May, June, July and August, respectively. It received 0.42 inches of rainfall from July 13-19 and no rainfall from July 20-30. This very low rainfall have affected the pollination and ear filling. A total of 2.72 inches of rainfall was received between July 3-12 and this rainfall might have helped the early maturity group. This location have received 0.28 inches of rainfall from August 5-20 and this low amount of rainfall might have affected the ear development of the late maturity group. The daily rainfall received from planting to harvest period shows days without or with some amount of rainfall (Figure 2). This dryland location received very low rainfall during the flowering period and ear development and have affected the yield.
Yields at the Middletown dryland location averaged 172, 155 and 156 bu/A for the early, early-medium and medium maturity groups, respectively, compared to the check means of 175, 161 and 149 bu/A, respectively (Tables 3, 4 and 5). There were no significant differences among hybrids for yield, grain moisture and yield/moisture for the early, early-medium and medium maturity groups, but there was a significant difference in grain moisture for the early-medium. Also there were no significant differences among hybrids in plant population for the early-medium and medium and a stalk lodging for the early maturity group. There was a significant difference in test weight on all the maturity groups, plant population for the early and stalk lodging for the early-medium and medium maturity groups. Overall there was some stalk lodging particularly on the early-medium maturity group as a result of a wind storm that blew roof tops from an old farm barn.

**Camden Wyoming:** The average soil temperature at Dover, DE-SFS the nearest station to Thomas Family Farms, Kent County irrigated location in April was 55.5 °F and 65.5°F in May. This soil temperature is above the minimum 50 °F soil temperature required for corn germination. Even though this location accumulated 84.7 GDD in the first ten days after planting (May 3) the germination was delayed. The cumulative GDD for the hybrids with relative maturity of 101-110, 111-114 and 115-120 was 2248-2446, 2469-2550 and 2575-2716, respectively (Figure 3). Camden Wyoming received a total of 5.44, 1.66, 5.84 and 2.7 inches of rainfall in May, June, July and August, respectively (Figure 4).
Yields at the Camden Wyoming location averaged 256, 273 and 266 bu/A for the early, early-medium and medium maturity groups, respectively, compared to the check means of 264, 268 and 266 bu/A, respectively (Tables 6, 7 and 8). There were significant differences among hybrids for yield, grain moisture, yield/moisture, test weight and plant population for all the maturity groups. There was no significant difference in stalk lodging for all the maturity groups. Overall there was very minor stalk lodging and no root lodging across all the maturity groups.

Laurel: The average soil temperature at Laurel, DE-Airport the nearest station to Plum Creek Farms, LLC, Sussex County; irrigated location in April was 57.4 °F and 66.1 in May. This soil temperature is above the minimum 50 °F soil temperature required for corn germination. A 100.9 GDD was accumulated in the ten days after planting (April 26) at this station and was enough for the germination and growth. The cumulative GDD for the hybrids with the relative maturity of 101-110, 111-114 and 115-120 was 2096-2345, 2367-2430 and 2452-2582, respectively (Figure 5). Laurel received a total of 3.63, 2.22, 2.44 and 1.02 inches of rainfall in May, June, July and August, respectively (Figure 6).
Yields at the Laurel location averaged 246, 255 and 254 bu/A for the early, early-medium and medium maturity groups, respectively, compared to the check means of 254, 254 and 261 bu/A, respectively (Tables 9, 10, and 11). There were significant differences among hybrids for yield, grain moisture, yield/moisture, and test weight across all the maturity groups. There was also a significant difference among hybrids in plant population and stalk lodging for the medium and a stalk lodging for the early-medium maturity groups. In this testing location there was some minor stalk lodging and no root lodging.

**Georgetown:** The average soil temperature at Georgetown, Carvel Research & Education Center, Sussex County; irrigated location in April was 55.5 °F and 64.9 in May. This soil temperature is above the minimum 50 °F soil temperature required for corn germination. A 93.4 GDD was accumulated in the first ten days after planting (April 25) at this location and was enough for the germination and growth. However, after germination we observed slow growth due to the cold weather. The cumulative GDD for the hybrids with the relative maturity of 101-110, 111-114 and 115-120 was 2070-2326, 2345-2408 and 2428-2553, respectively (Figure 7). Georgetown received a total of 4.25, 3.73, 3.0 and 3.26 inches of rainfall in May, June, July and August, respectively (Figure 8).
Yields at the Georgetown location averaged 243, 244 and 244 bu/A for the early, early-medium and medium maturity groups, respectively, compared to the check means of 247, 243 and 254 bu/A, respectively (Tables 12, 13 and 14). There were significant differences among hybrids for yield, grain moisture, yield/moisture, test weight and plant population on all the maturity groups. We were not able to take stalk and root lodging at this location, however, there was no significant stalk or root lodging.

The grain yield rankings of hybrids across locations are provided in each table. A pooled yield average and yield ranks are also provided for each hybrid. There are a few hybrids that had high yield rankings across locations. We encourage growers to give strong consideration to hybrids with high average performance across locations and years and to use such hybrids as benchmarks for future hybrid decisions. However, growers should recognize that the relative performance of some hybrids might differ across environments. Careful hybrid selection should help stabilize yield performance in Delaware.
Table 1. Experimental details and cultural practices

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<th>Thomas Family Farms – Camden Wyoming (Irrigated)</th>
<th>Plum Creek Farms, LLC – Laurel (Irrigated)</th>
<th>Carvel REC - Georgetown (Irrigated)</th>
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<td>15 gallons/A of 20-10-0-1s (N-P_2O_5-K_2O) starter 2”x2” (32 lb N &amp; 27 lb P). At V4 –V5 stage side-dressed with 70 gallons/A of 27-0-0-6s (203 lb N).</td>
<td>3 tons/A of chicken manure. 15 gallons/A of 20-10-0-1s (N-P_2O_5-K_2O) starter 2”x2” (32 lb N &amp; 27 lb P). At V4 –V5 stage side-dressed with 70 gallons/A of 27-0-0-6s (203 lb N) and fertigated with 30 lbs of N2 (24-0-0-3).</td>
<td>15 gallons/A of 20-10-0-1s (N-P_2O_5-K_2O) starter 2”x2” (32 lb N &amp; 27 lb P). At V4 –V5 stage side-dressed with 70 gallons/A of 27-0-0-6s (203 lb N) and 30 lbs/A of 32% nitrogen was fertigated.</td>
<td>2 tons /A of chicken manure and 350 lb of 7-0-40. 15 gallons/A of 20-10-0-1s (N-P_2O_5-K_2O) starter 2”x2” (32 lb N &amp; 27 lb P). At V4 –V5 stage side-dressed with 70 gallons/A of 27-0-0-6s (203 lb N).</td>
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<td>East Coast Seed</td>
<td>17741 Davis Rd Georgetown, DE 19947</td>
<td>302-856-7018</td>
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<td>Mid-Atlantic Seeds</td>
<td>204 St. Charles Way #163E York, PA 17402</td>
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<td>Growmark</td>
<td>701 Towanda Ave. Bloomington, IL 61701</td>
<td>315-407-3558</td>
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<td>Revere Seed</td>
<td>2940 Reach Rd Williamsport, PA 17701</td>
<td>570-753-5503</td>
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<td>MorCorn</td>
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<td>478-957-9865</td>
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<td>Augusta Seed</td>
<td>923 Lee Hwy Verona, VA 24482</td>
<td>540-886-6055</td>
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<td>Seed Consultants</td>
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Table 2. Growing degree day (GDD) and rainfall at or nearest test locations for the 2022 Delaware corn hybrid performance test

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<th>Day</th>
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<th>Month</th>
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Text Avg. 171.2 15.8 10.9 57.6 24596.3 1.8  
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% C.V. 13.6 11.4 12.6 1.4 6.4 200.0  

Check Avg. + LSD (0.05)  
NS = not statistically significant at a 5% probability level.
## Table 4. Dryland Corn Hybrid Performance Summary

Emerson Farms (New Castle County) Middletown, Delaware

Planted 4/28/2022 & Harvested September 26, Early-Medium Hybrids

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<th>Hybrid</th>
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<th>% Stalk Lodging</th>
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**Test Avg.**

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**LSD (0.05)**

- NS NS NS 1.1 NS 12.1

**% C.V.**

- 15.8 8.8 11.7 1.2 8.6 110.8

**Check Avg. + LSD (0.05)**

- NS NS NS NS 1.1 NS 12.1

NS = not statistically significant at a 5% probability level
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Check Avg. 149.0 15.4 9.9 59.7 25162.5 7.3  
Test Avg. 155.3 16.3 9.5 58.6 24892.2 2.5  
LSD (0.05) NS 2.3 NS 1.1 NS 0.2  
% C.V. 10.2 8.6 10.4 11.1 5.6 151.2  

NS = not statistically significant at a 5% probability level

Planted 4/28/2022 & Harvested September 26, Medium Hybrids

Table 5. Dryland Corn Hybrid Performance Summary

Emerson Farms (New Castle County) Middletown, Delaware

Performance Ranking for Pooled sites

Check Avg. + LSD (0.05)
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<tr>
<th>Brand</th>
<th>Hybrid</th>
<th>Yield Bu/A</th>
<th>% Moisture</th>
<th>Yield/Moisture</th>
<th>Test Weight</th>
<th>% Stalk</th>
<th>% Relative Yield to Check Avg</th>
<th>Camden Wyoming Irrigated</th>
<th>Georgetown Irrigated</th>
<th>Laurel Irrigated</th>
<th>Middletown Dryland</th>
<th>Irrigated Yield Avg Bu/A</th>
<th>Rank</th>
<th>Pooled Yield Ave Bu/A</th>
<th>Two Year Yield Ave Bu/A</th>
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Check Avg. 264.1 19.3 13.5 55.6 312725.0 0.2
Test Avg. 256.2 19.0 13.5 56.4 32352.8 0.1
LSD (0.05) 14.3 0.8 0.7 0.9 2061.4 NS
% C.V. 3.5 3.1 3.2 1.1 4.0 176.2
Check Avg. + LSD (0.05) 278.4

1 The bold text and darker shading indicate that the yield of the hybrids is not statistically different from the top yielding hybrid. NS = not statistically significant at a 5% probability level.
### Table 7. Irrigated Corn Hybrid Performance Summary

<table>
<thead>
<tr>
<th>Brand</th>
<th>Hybrid</th>
<th>Yield Bu/A</th>
<th>% Moisture</th>
<th>Yield/ Moisture</th>
<th>Test Weight</th>
<th>% Stalk Lodging</th>
<th>% Relative Yield to Check Avg</th>
<th>Camden Wyoming Irrigated</th>
<th>Laurel Irrigated</th>
<th>Middletown Dryland</th>
<th>Irrigated Yield Avg Bu/A</th>
<th>Rank</th>
<th>Pooled Yield Ave Bu/A</th>
<th>Two Year Yield Ave Bu/A</th>
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| Seed
| Consultants  | SC1112AM                      | 293.6      | 21.3       | 13.8           | 56.1        | 13000.0         | 0.0                          | 109.7                    | 1              | 4                   | 3                      | 1    | 247.5               | 239.9                  |
|              | Dyna-Gro                      | 283.7      | 21.2       | 13.5           | 56.8        | 12568.7        | 0.0                          | 105.0                    | 2              | 2                   | 8                      | 15   | 263.3               | 236.0                  |
|              | Revere Seed                   | 283.2      | 21.3       | 13.3           | 56.6        | 31762.5        | 0.0                          | 105.9                    | 3              | 17                  | 17                     | 20   | 257.5               | 228.8                  |
|              | MarCorn                       | 282.6      | 21.1       | 13.4           | 56.7        | 32175.0        | 0.0                          | 105.7                    | 4              | 16                  | 15                     | 7    | 258.0               | 233.7                  |
|              | Revere Seed                   | 278.2      | 20.6       | 13.4           | 56.8        | 32725.0        | 0.0                          | 103.3                    | 5              | 9                   | 13                     | 3    | 258.5               | 234.8                  |
|              | DeKalb                        | 276.1      | 22.1       | 12.5           | 57.1        | 31125.0        | 0.0                          | 103.2                    | 6              | 6                   | 6                      | 2    | 260.4               | 236.3                  |
|              | Revision                      | 276.0      | 22.6       | 12.2           | 56.9        | 32587.5        | 1.3                          | 103.2                    | 7              | 1                   | 1                      | 8    | 270.6               | 242.2                  |
|              | Dyna-Gro                      | 275.3      | 21.3       | 13.0           | 57.3        | 32882.5        | 0.0                          | 102.9                    | 8              | 10                  | 10                     | 21   | 257.9               | 228.9                  |
| Mid-Atlantic | Seeds                         | 274.7      | 21.3       | 12.5           | 56.9        | 30925.0        | 0.0                          | 102.7                    | 9              | 13                  | 2                      | 5    | 263.1               | 237.6                  |
|              | Mid-Atlantic Seeds            | MAN141      | 274.6      | 21.8       | 12.6           | 56.6        | 32175.0        | 0.0                          | 102.6                    | 10             | 18                  | 18                     | 22   | 253.8               | 225.2                  |
|              | Mid-Atlantic Seeds            | DS4VC14      | 273.2      | 21.6       | 12.7           | 57.3        | 30250.0        | 1.0                          | 102.1                    | 11             | 11                  | 9                      | 19   | 257.5               | 230.3                  |
|              | Mid-Atlantic Seeds            | MAN110       | 272.8      | 21.0       | 13.0           | 56.4        | 29837.5        | 0.0                          | 102.0                    | 12             | 7                   | 11                     | 4    | 257.7               | 231.7                  |
|              | Mid-Atlantic Seeds            | MAN136       | 272.2      | 21.3       | 12.5           | 55.8        | 30317.5        | 0.0                          | 101.7                    | 13             | 15                  | 19                     | 10   | 254.2               | 229.8                  |
|              | Dyna-Gro                      | DS4T5C21      | 270.6      | 20.7       | 13.1           | 56.9        | 30250.0        | 0.0                          | 101.2                    | 14             | 12                  | 12                     | 6    | 256.0               | 232.1                  |
| Seed
| Consultants  | CC1112J          | 270.5      | 20.8       | 13.0           | 56.2        | 31325.0        | 0.0                          | 101.0                    | 15             | 22                  | 22                     | 18   | 246.1               | 221.9                  |
|              | Revision                      | DS4T507RIB    | 270.0      | 21.0       | 12.9           | 57.0        | 33279.0        | 0.0                          | 100.9                    | 16             | 8                   | 16                     | 14   | 256.0               | 230.5                  |
|              | Augusta                       | 269.3      | 20.9       | 12.9           | 56.9        | 30887.5        | 0.0                          | 100.7                    | 17             | 19                  | 5                      | 17   | 256.9               | 230.3                  |
|              | AgVenture                     | KU7013AM       | 267.7      | 21.9       | 12.3           | 55.7        | 29700.0        | 0.0                          | 100.1                    | 18             | 5                   | 20                     | 16   | 254.7               | 228.9                  |
|              | MorCorn                       | MC4331        | 266.0      | 20.9       | 12.7           | 56.4        | 28737.5        | 0.0                          | 99.9                     | 19             | 14                  | 4                      | 13   | 257.3               | 231.8                  |
|              | Mid-Atlantic Seeds            | MAN124        | 267.2      | 21.2       | 12.4           | 56.7        | 34650.0        | 0.0                          | 97.8                     | 20             | 20                  | 7                      | 11   | 251.9               | 228.0                  |
|              | Details                       | D625S-55RIB    | 258.9      | 22.4       | 11.6           | 56.5        | 301125.0       | 0.0                          | 96.8                     | 21             | 21                  | 14                     | 9    | 249.0               | 226.0                  |
|              | AgVenture                     | KH4313AM       | 256.8      | 21.2       | 12.2           | 55.8        | 31350.0        | 0.0                          | 96.0                     | 22             | 3                   | 21                     | 12   | 252.2               | 228.0                  |

Check Avg. 267.5 22.2 12.1 56.6 30662.5 0.0
Test Avg. 273.0 21.4 12.8 56.6 31738.8 0.1
LSD (0.05) 12.5 0.9 0.8 1.1 2331.8 NS
% C.V. 2.8 3.6 4.0 1.0 4.5 143.8
Check Avg. + LSD (0.05) 280.0

*The bold text and darker shading indicate that the yield of the hybrids is not statistically different from the top yielding hybrid.

NS = not statistically significant at a 5% probability level.
## Table 8. Irrigated Corn Hybrid Performance Summary

<table>
<thead>
<tr>
<th>Brand</th>
<th>Hybrid</th>
<th>Yield</th>
<th>% Moisture</th>
<th>% Moisture</th>
<th>Yield/</th>
<th>Test Weight</th>
<th>Final Pop</th>
<th>% Relative Yield to Check Avg</th>
<th>Camden Wyoming</th>
<th>Georgetown</th>
<th>Laurel</th>
<th>Middletown</th>
<th>Dryland</th>
<th>Irrigated Yield Ave Bu/A</th>
<th>Check Avg.</th>
<th>Test Avg.</th>
<th>LSD (0.05)</th>
<th>% C.V.</th>
<th>Check Avg. + LSD (0.05)</th>
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<td>0.8</td>
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1 The bold text and darker shading indicate that the yield of the hybrids is not statistically different from the top yielding hybrid.

NS = not statistically significant at a 5% probability level.
| Brand                  | Hybrid                        | Yield Bu/A | % Moisture | Yield/Moisture | Test Weight | % Relative Yield to Check Avg. | % Stalk Lodging | Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Lodging | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. | % Relative Yield to Check Avg. 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1. [The bold text and darker shading indicate that the yield of the hybrids is not statistically different from the top yielding hybrid]

NS = not statistically significant at a 5% probability level
Table 10. Irrigated Corn Hybrid Performance Summary
Plum Creek Farms, LLC [Sussex County] Laurel, Delaware

Planted 4/26/2022 & Harvested September 27, Early-Medium Hybrids

<table>
<thead>
<tr>
<th>Brand</th>
<th>Hybrid</th>
<th>Yield (Bu/A)</th>
<th>% Moisture</th>
<th>Moisture</th>
<th>Yield/Weight</th>
<th>% Stalk Lodging</th>
<th>% Relative Yield to Check Avg.</th>
<th>Laurel Irrigated</th>
<th>Georgetown Irrigated</th>
<th>Camden Wyoming Irrigated</th>
<th>Middletown Dryland</th>
<th>Irrigated Avg. Yield (Bu/A)</th>
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<th>Rank</th>
<th>Two Year Yield Ave (Bu/A)</th>
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Check Avg.            | 254.1        | 17.3       | 14.6     | 59.1         | 31075.0        | 5.0                          | 95.0            | 22                     | 22                    | 15                   | 246.1                    | 22                     | 212.9 | 225.3                    |

Test Avg.             | 255.2        | 17.3       | 14.8     | 59.7         | 31087.5        | 6.4                          | 95.0            | 22                     | 22                    | 15                   | 246.1                    | 22                     | 212.9 | 225.3                    |

LSD (0.05)            | 16.6         | 0.7        | 1.1      | 0.8          | NS             | 8.1                          | 4.3             | NS                      | 4.3                    | 3                    | 20.7                      | NS                     | 8.1  |                         |

Check Avg. + LSD (0.05)| 270.7        |           |          |              |                |                             |                 |                         |                        |                      |                           |                        |      |                         |

1 The bold text and darker shading indicate that the yield of the hybrids is not statistically different from the top yielding hybrid
NS = not statistically significant at a 5% probability level
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LSD (0.05)  15.9  0.5  1.0  0.8  2400.1  7.2
% C.V.     4.8  2.7  4.7  0.8  5.2  109.8
Check Avg. + LSD (0.05)  276.5

1The bold text and darker shading indicate that the yield of the hybrids is not statistically different from the top yielding hybrid
NS = not statistically significant at a 5% probability level
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Test Avg.  | 243.2 | 19.9 | 12.2 | 55.6 | 31956.2
LSD (0.05) | 23.0  | 0.9  | 1.2  | 0.8  | 1992.1
% C.V.     | 4.9   | 3.0  | 5.9  | 1.0  | 3.9
Check Avg. + LSD (0.05) | 270.1

1 The bold text and darker shading indicate that the yield of the hybrids is not statistically different from the top yielding hybrid.
NS = not statistically significant at a 5% probability level

Table 12. Irrigated Corn Hybrid Performance Summary
Carvel Research & Education Center (Sussex County) Georgetown, Delaware
Planted 4/25/2022 & Harvested September 20, Early Hybrids
Performance Ranking for Pooled sites

Check Avg. 247.1 20.5 12.1 54.9 31968.8
Test Avg. 243.2 19.9 12.2 55.6 31956.2
LSD (0.05) 23.0 0.9 1.2 0.8 1992.1
% C.V. 4.9 3.0 5.9 1.0 3.9
Check Avg. + LSD (0.05) 270.1
## Table 13. Irrigated Corn Hybrid Performance Summary

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Test Avg. 244.4 21.1 11.6 56.0 31606.3
LSD (0.05) 14.6 1.0 0.9 0.9 1602.9
% C.V. 4.0 3.1 5.2 1.1 3.3
Check Avg. + LSD (0.05) 257.2

1The bold text and darker shading indicate that the yield of the hybrids is not statistically different from the top yielding hybrid.
N.S = not statistically significant at a 5% probability level.

## Performance Ranking for Planted 4/25/2022 & Harvested September 20, Early-Medium Hybrids

- **DeKalb DKC64-65RIB** (Check) - 248.2% yield
  - Rank: 6
  - Pooled Yield Ave: 228.9
- **Midd-Atlantic Seeds MA8145** - 251.9% yield
  - Rank: 3
  - Pooled Yield Ave: 233.3
- **Seed Consultants SC1112AM** - 251.5% yield
  - Rank: 4
  - Pooled Yield Ave: 239.9
- **Dyna-Gro D52VC63** - 252.8% yield
  - Rank: 2
  - Pooled Yield Ave: 242.2
- **Invision FS 6424V RIB** - 258.9% yield
  - Rank: 1
  - Pooled Yield Ave: 270.6
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<th>Yield Bu/A % Moisture</th>
<th>Test Weight</th>
<th>% Stalk Lodging</th>
<th>% Relative Yield to Check Avg</th>
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<th>Camden Wyoming Irrigated</th>
<th>Middletown Dryland</th>
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Check Avg. = 253.7, Test Avg. = 244.5, LSD (0.05) = 14.5

%C.V. = 3.9, %C.V. = 2.4, %C.V. = 4.2, %C.V. = 0.7, %C.V. = 3.2

Check Avg. + LSD (0.05) = 268.2

1 The bold text and darker shading indicate that the yield of the hybrids is not statistically different from the top yielding hybrid

NS = not statistically significant at a 5% probability level