

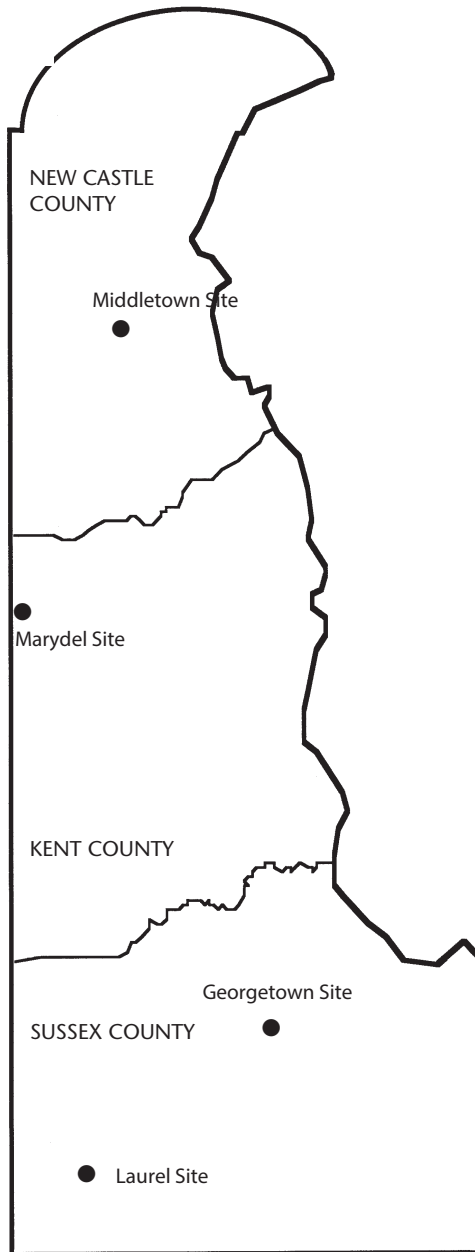
# DELAWARE HYBRID FIELD CORN PERFORMANCE TRIALS

2019



University of Delaware  
College of Agriculture and Natural Resources  
Agricultural Experiment Station  
Cooperative Extension  
Newark, DE 19716-2170

## Test plot locations



November 2019

Commercial companies or products are mentioned in this publication solely for the purpose of providing specific information. Mention of a company or product does not constitute a guarantee or warranty of products by the Agricultural Experiment Station or Delaware Cooperative Extension or an endorsement over products of other companies not mentioned.

Cooperative Extension Education in Agriculture and Home Economics, University of Delaware, Delaware State University and the United States Department of Agriculture cooperating. Mark Rieger, Dean and Director. Distributed in furtherance of Acts of Congress of May 8 and June 30, 1914. It is the policy of the Delaware Cooperative Extension System that no person shall be subjected to discrimination on the grounds of race, color, sex, disability, age, or national origin.

# DELAWARE HYBRID FIELD CORN PERFORMANCE TRIALS

**Teclemariam Weldekidan**

Scientist

Department of Plant and Soil Sciences

**Dr. Randall J. Wisser**

Associate Professor

Department of Plant and Soil Sciences

---

University of Delaware  
College of Agriculture and  
Natural Resources  
Agricultural Experiment Station  
Cooperative Extension  
Newark, DE 19716-2170

**Acknowledgments:** Appreciation is extended to Brian Hearn and Vic Green, Crops Research Coordinators, Gunner Isaacs, and Kyle Mitchell, for their assistance in planting, harvesting and managing the trials. The authors are indebted to Emerson Farms, Thomas Family Farms, Plum Creek Farms, LLC and Davis Farms for providing land for these trials. We also thank Gail Ferry for her assistance in preparing this report.

## DELAWARE HYBRID FIELD CORN PERFORMANCE TRIALS – 2019

The 2019 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-six hybrids were evaluated at four locations: Emerson Farms at **Middletown**, DE (dryland), Thomas Family Farms at **Marydel**, DE (center pivot irrigation), Plum Creek Farms, LLC at **Laurel**, DE (center pivot irrigation) and Davis Farms at **Georgetown**, DE (center pivot irrigation). Hybrids were divided into three relative maturity groups; early 101-110 (21 entries), early-medium 111-114 (17 entries) and medium 115-120 days (8 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 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>) and the raw data used to plot the Growing Degree Day (GDD) and rainfall graphs is presented in Table 2. The weather data for Emerson Farms, Middletown was taken from Townsend, DE-REC, for Thomas Family Farms, Marydel from Dover, DE-SFS, for Plum Creek Farms, LLC, Laurel from Laurel, DE-Airport and for Davis Farm, 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

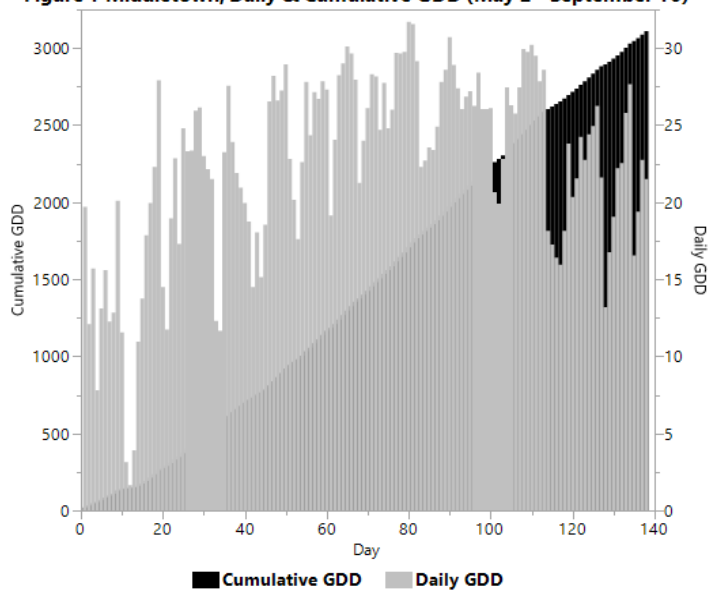
The 2019 growing season was characterized by good weather conditions during planting and the early growing season followed by an even distribution of rainfall during the flowering period. In 2019, the Delaware corn hybrid performance yield tests averaged 235, 248 and 253 bu/A compared to the 2018 yield which averaged 190, 207 and 213 bu/A across the three irrigated locations for the early, early-medium and medium maturity groups, respectively. In the dryland location, average yields in 2019 were 198, 202 and 167 bu/A for the early, early-medium and medium maturity groups, respectively. The corresponding average yields in 2018 was 163 and 160 bu/A for the early-medium and medium maturity groups, respectively. Grain yield averaged across locations and maturity groups in 2019 was 16% higher than in 2018. Delaware grain corn yield was expected to average 148 bu/A in 2019 compared to 145 bu/A in 2018 (Delaware Agriculture Statistics Service).

**Middletown:** The average soil temperature at Townsend, DE-REC the nearest station to Emerson Farms, New Castle County; dryland, no-till in April was 55.9 °F. A 50 °F soil temperature is considered the minimum temperature for corn germination. A Growing Degree Days (GDD) of 90 to 120 is required for corn germination. A 141.0 GDD was accumulated in the ten days after

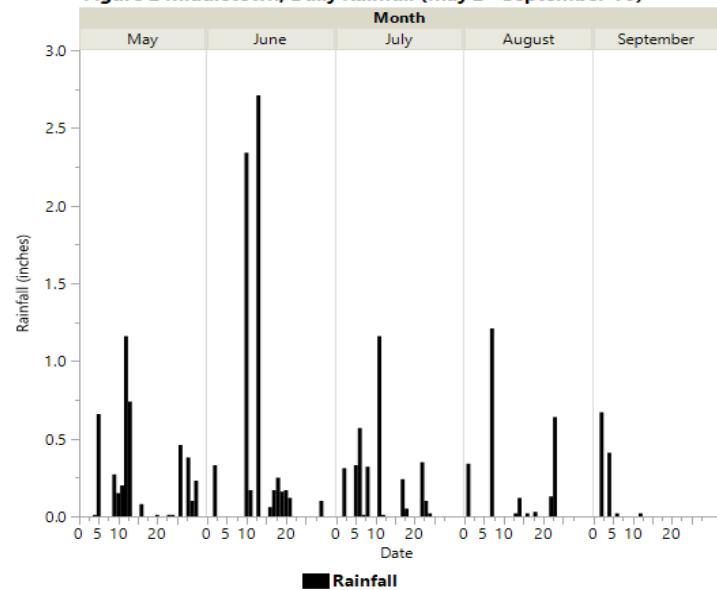
planting (May 2) at this station and was enough for the germination and growth. The cumulative GDD for the hybrids with the relative maturity of 101-110, 111-114 and 115-120 was 2261-2500, 2530-2604 and 2621-2716, respectively (Figure 1).

Middletown, the dryland location received a total of 4.47, 6.58, 3.47 and 2.51 inches of rainfall in May, June, July and August. This dryland location received only 0.1 and 2.71 inches of rainfall from June 22-July 1 and July 2-12, respectively. The rainfall that was received during the first week of July have helped offset the impact of drought on the early and early-medium maturity groups. This dryland location received only 0.29 inches of rainfall from July 13-21, 0.47 inches from July 22-24 and no drop of rain from July 25-31. The daily rainfall received from planting to harvest period shows days without or little rain (Figure 2). The lack of rain occurred during the flowering period, which was particularly coincident with the late maturity group.

**Figure 1 Middletown, Daily & Cumulative GDD (May 2 - September 16)**



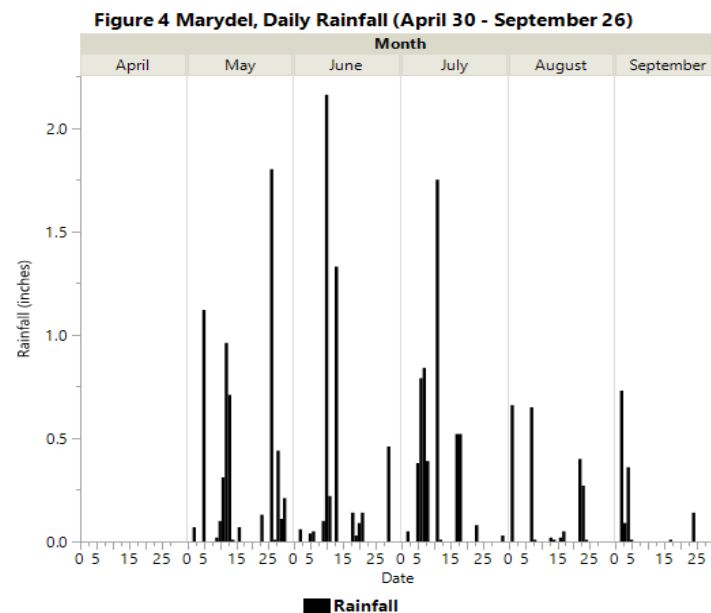
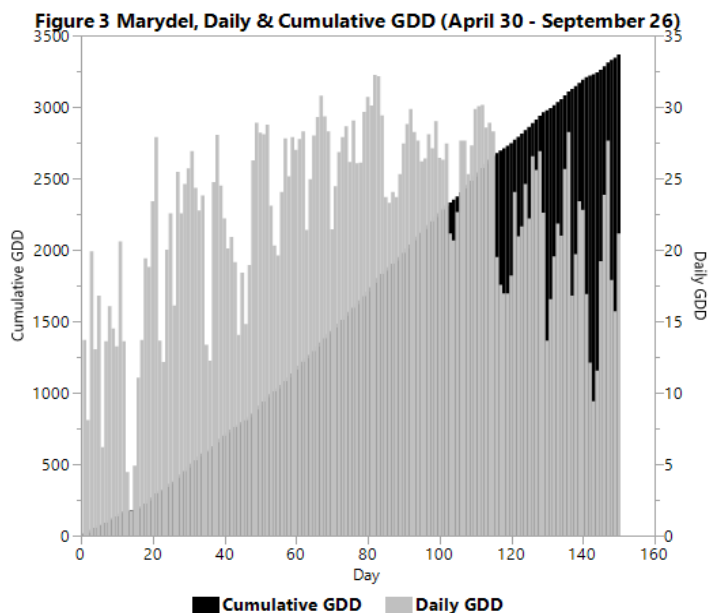
**Figure 2 Middletown, Daily Rainfall (May 2 - September 16)**





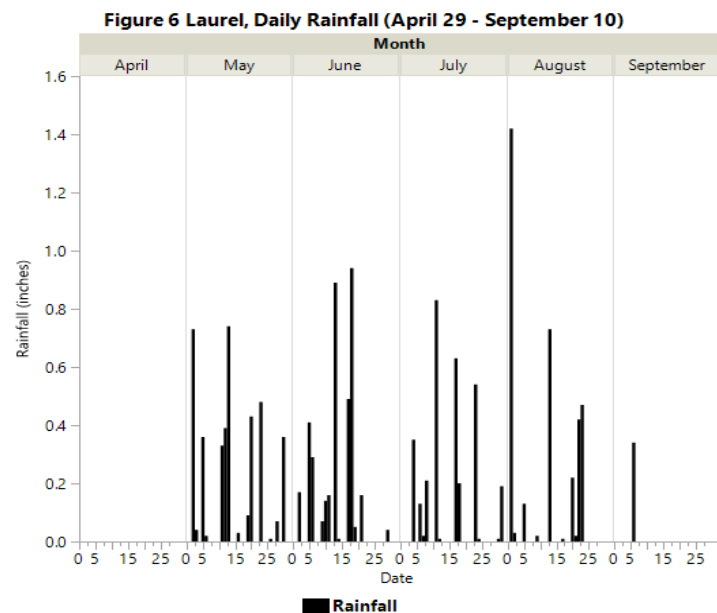
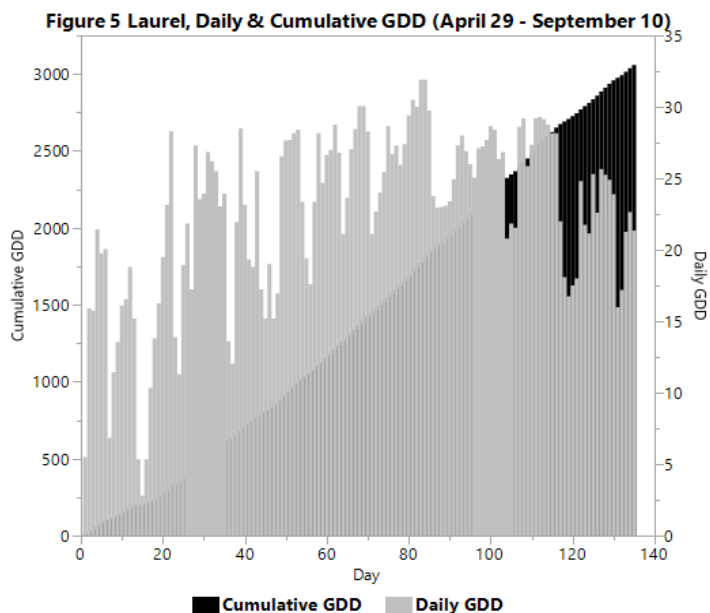
Yields at the Middletown location averaged 198, 202 and 167 bu/A for the early, early-medium and medium maturity groups, respectively, compared to the check means of 193, 190 and 149 bu/A, respectively (Tables 3, 4 and 5). There were significant differences among hybrids for yield, yield/moisture, test weight and plant population for the early and early-medium maturity groups. In the medium maturity group, there was significant difference among hybrids in yield, grain moisture, yield over moisture, test weight and plant population. There was a minor stalk lodging but no root lodging across all maturity groups. The reduced yield in the medium maturity group is thought to be due to an even distribution of rain in July.

**Marydel:** The average soil temperature at Dover, DE-SFS the nearest station to Thomas Family Farms, Kent County irrigated location in April was 58.4 °F. This soil temperature is above the minimum 50 °F soil temperature required for corn germination. A 135.0 GDD was accumulated in the ten days after planting (April 30) at this station and was enough for the germination and growth. The cumulative GDD for the hybrids with relative maturity of 101-110, 111-114 and 115-120 was 2282-2512, 2542-2630 and 2658-2747, respectively (Figure 3). Marydel received a total of 6.07, 4.82, 5.36 and 2.1 inches of rainfall in May, June, July and August, respectively. The distribution of rain was an even and there were days without rainfall (Figure 4).



Yields at the Marydel location averaged 244, 256 and 261 bu/A for the early, early-medium, and medium maturity groups, respectively, compared to the check means of 263, 254 and 266 bu/A, respectively (Tables 6, 7 and 8). There were significant differences among hybrids for yield, yield/moisture and test weight for all the maturity groups. There was also significant difference in grain moisture and stalk lodging for the early-medium and medium maturity groups. In this testing location there was no root lodging across all maturity groups other than one hybrid in the early-medium maturity group.

**Laurel:** The average soil temperature at Laurel, DE-Airport the nearest station to Plum Creek Farms, LLC, Sussex County; irrigated location in April was 60.2 °F. This soil temperature is above the minimum 50 °F soil temperature required for corn germination. A 146.0 GDD was accumulated in the ten days after planting (April 29) 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 2251-2479, 2509-2596 and 2624-2726, respectively (Figure 5). Laurel received a total of 4.08, 3.82, 3.13 and 3.47 inches of rainfall in May, June, July and August, respectively. In this station the distribution of rainfall was an even and there was no drop of rain from June 22-July 3 other than a 0.04 inches on June 29 (Figure 6).



Yields at the Laurel location averaged 242, 257 and 261 bu/A for the early, early-medium and medium maturity groups, respectively, compared to the check means of 256, 263 and 259 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. In the early and medium maturity groups, there was significant difference in stalk lodging among hybrids. There was no root lodging across all maturity groups at this testing location.

**Georgetown:** The average soil temperature at Georgetown, DE-REC the nearest station to Davis Farms, Sussex County; irrigated location in April was 59.7 °F. This soil temperature is above the minimum 50 °F soil temperature required for corn germination. A 129.0 GDD was accumulated in the ten days after planting (May 9) 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 2417-2639, 2657-2727 and 2753-2877, respectively (Figure 7). Georgetown received a total of 3.1, 4.22, 2.04, and 4.15 inches of rainfall in May, June, July, and August, respectively. In this station there were days without a drop of rain from June 22 –July 4 other than a 0.05 inches on June 29. The distribution of rainfall was not good (Figure 8).

Figure 7 Georgetown, Daily & Cumulative GDD (May 9 - September 16)

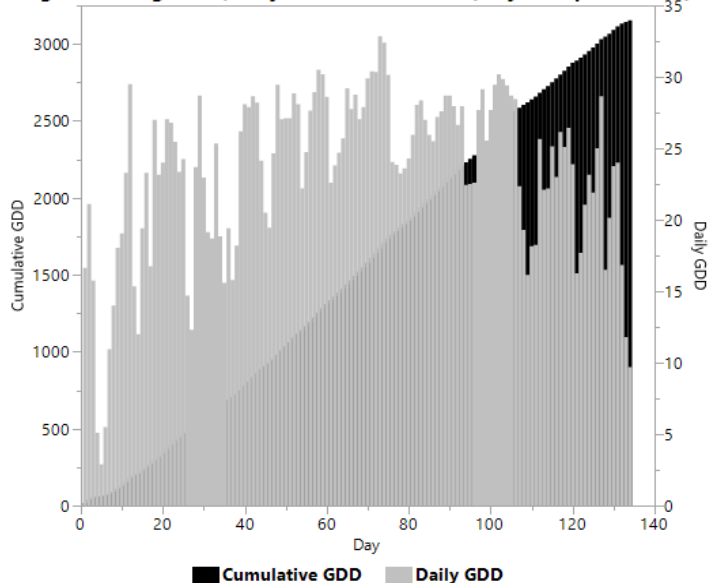
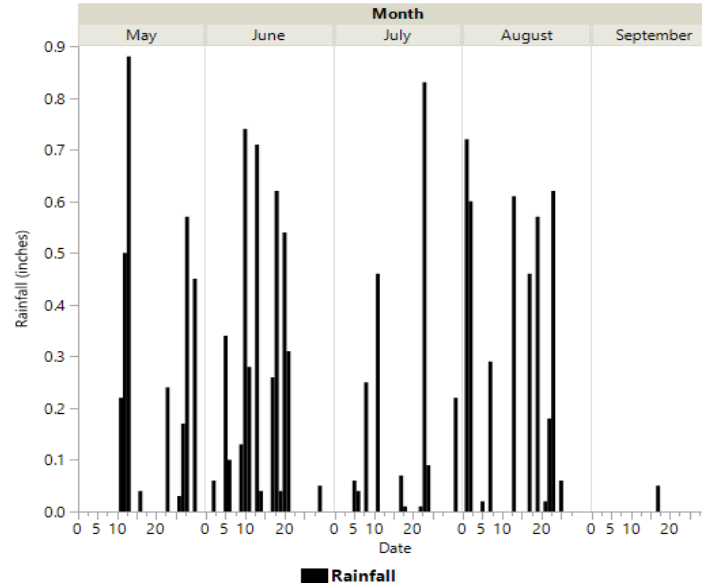


Figure 8 Georgetown, Daily Rainfall (May 9 - September 19)



Yields at the Georgetown location averaged 220, 230 and 236 bu/A for the early, early-medium and medium maturity groups, respectively, compared to the check means of 242, 231 and 232 bu/A, respectively (Tables 12, 13 and 14). There were significant differences among hybrids in yield, grain moisture, yield over moisture and test weight across all maturity groups. There was significant difference in plant population for the early-medium and stalk lodging for the medium maturity group. There was no root lodging across all the maturity groups at this testing location.

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**

	<b>Emerson Farms – Middletown (Dryland)</b>	<b>Thomas Family Farms – Marydel (Irrigated)</b>	<b>Plum Creek Farms, LLC – Laurel (Irrigated)</b>	<b>Davis Farms, Georgetown (Irrigated)</b>
<b>Number of entries</b>	46	46	46	46
<b>Number of maturities</b>	3	3	3	3
<b>Target Population plants/A</b>	28,000	33,000	33,000	33,000
<b>Row length</b>	17.4'	17.4'	17.4'	17.4'
<b>Number of rows harvested</b>	Center two rows	Center two rows	Center two rows	Center two rows
<b>Number of replications</b>	4	4	4	4
<b>Planting date</b>	May 2	April 30	April 29	May 9
<b>Harvest date</b>	September 16	September 26	September 10	September 19
<b>Soil type</b>	Matapeake silt loam	Sandy loam	Sandy loam	Rosedale loamy sand
<b>Soil pH</b>	6.2	6.1	5.8	5.8
<b>Previous crop</b>	Soybean	Soybean	Sweet corn	Soybean
<b>Cover crop</b>	None	None	None	None
<b>Tillage practices</b>	No till	Ripped, field cultivator	No till	Disked, chisel, field cultivator
<b>Cultivation</b>	None	None	None	None
<b>Fertilization</b>	15 gallons/A of 20-10-0-1s (N-P <sub>2</sub> O <sub>5</sub> -K <sub>2</sub> O-s) starter 2"x2" (32 lb N & 36 lb P). At V4 –V5 stage side-dressed with 60 gallons/A of 27-0-0-6s (174 lb N).	3 tons/A of chicken manure. 15 gallons/A of 20-10-0-1s (N-P <sub>2</sub> O <sub>5</sub> -K <sub>2</sub> O) starter 2"x2" (32 lb N & 36 lb P). At V4-V5 stage side-dressed with 60 gallons/A of 27-0-0-6s solution (174 lb N) plus 50lbs of N and 3lbs of sulfur fertigated	15 gallons/A of 20-10-0-1s (N-P <sub>2</sub> O <sub>5</sub> -K <sub>2</sub> O) starter 2"x2" (32 lb N & 36 lb P). At V4 –V5 stage side-dressed with 60 gallons/A of 27-0-0-6s (174 lb N) and 10 GPA of 32% UAN (30 lb N) fertigated	15 gallons/A of 20-10-0-1s (N-P <sub>2</sub> O <sub>5</sub> -K <sub>2</sub> O) starter 2"x2" (32 lb N & 36 lb P). At V4 –V5 stage side-dressed with 60 gallons/A of 27-0-0-6s (174 lb N).
<b>Herbicide</b>	Lexar 3.5 qt/A, simazine 1 qt/A and roundup 1 qt/A	Lexar 3.5 qt/A and simazine 1 qt/A	Lexar 3 qt/A, simazine 1qt/A and roundup 1 qt/A.	Lexar 3 qt/A and simazine 1 qt/A as pre-emergence and Atrazine 1 qt/A and Impact 0.75 oz/A post-emergence
<b>Insecticide</b>	Sniper LFR 5 oz/A at planting	Sniper LFR 5 oz/A at planting	Sniper LFR 5 oz/A at planting	Sniper LFR 5 oz/A at planting
<b>Irrigation</b>	None	Center pivot	Center pivot	Center pivot

**Table 2. Growing Degree Day (GDD) and rainfall at or nearest test locations for the 2019 Delaware corn hybrid performance trials**

Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall		Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall
Townsend	May	2	1	19.7	19.7	0		Townsend	June	1	31	22.15	516.2	0
Townsend	May	3	2	12.1	31.8	0		Townsend	June	2	32	21.5	537.7	0.33
Townsend	May	4	3	15.7	47.5	0.01		Townsend	June	3	33	12.3	550	0
Townsend	May	5	4	7.8	55.3	0.66		Townsend	June	4	34	11.65	561.65	0
Townsend	May	6	5	13.1	68.4	0		Townsend	June	5	35	23.25	584.9	0
Townsend	May	7	6	15.6	84	0		Townsend	June	6	36	27.55	612.45	0
Townsend	May	8	7	12.25	96.25	0		Townsend	June	7	37	23.9	636.35	0
Townsend	May	9	8	12.85	109.1	0.27		Townsend	June	8	38	21.9	658.25	0
Townsend	May	10	9	20.1	129.2	0.15		Townsend	June	9	39	20.95	679.2	0
Townsend	May	11	10	11.55	140.75	0.2		Townsend	June	10	40	19.95	699.15	2.34
Townsend	May	12	11	3.15	143.9	1.16		Townsend	June	11	41	18.75	717.9	0.17
Townsend	May	13	12	1.65	145.55	0.74		Townsend	June	12	42	14.5	732.4	0
Townsend	May	14	13	3.9	149.45	0		Townsend	June	13	43	18.05	750.45	2.71
Townsend	May	15	14	10.95	160.4	0		Townsend	June	14	44	15.15	765.6	0
Townsend	May	16	15	13.75	174.15	0.08		Townsend	June	15	45	18.55	784.15	0
Townsend	May	17	16	17.85	192	0		Townsend	June	16	46	26.55	810.7	0.06
Townsend	May	18	17	19.95	211.95	0		Townsend	June	17	47	28.2	838.9	0.17
Townsend	May	19	18	22.3	234.25	0		Townsend	June	18	48	26.6	865.5	0.25
Townsend	May	20	19	27.9	262.15	0.01		Townsend	June	19	49	27.25	892.75	0.16
Townsend	May	21	20	14.5	276.65	0		Townsend	June	20	50	28.95	921.7	0.17
Townsend	May	22	21	11.75	288.4	0		Townsend	June	21	51	22.8	944.5	0.12
Townsend	May	23	22	18.95	307.35	0.01		Townsend	June	22	52	20.15	964.65	0
Townsend	May	24	23	22.85	330.2	0.01		Townsend	June	23	53	17.6	982.25	0
Townsend	May	25	24	17.3	347.5	0		Townsend	June	24	54	22.6	1004.85	0
Townsend	May	26	25	24.8	372.3	0.46		Townsend	June	25	55	27.8	1032.65	0
Townsend	May	27	26	23.3	395.6	0		Townsend	June	26	56	24.35	1057	0
Townsend	May	28	27	23.35	418.95	0.38		Townsend	June	27	57	27.15	1084.15	0
Townsend	May	29	28	25.95	444.9	0.1		Townsend	June	28	58	26.7	1110.85	0
Townsend	May	30	29	26.15	471.05	0.23		Townsend	June	29	59	27.85	1138.7	0.1
Townsend	May	31	30	23	494.05	0		Townsend	June	30	60	27.3	1166	0

Table 2 continued...

Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall		Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall
Townsend	July	1	61	19.15	1185.15	0		Townsend	August	1	92	27.4	2026.95	0.34
Townsend	July	2	62	24.05	1209.2	0.31		Townsend	August	2	93	26.05	2053	0
Townsend	July	3	63	28.25	1237.45	0		Townsend	August	3	94	26.85	2079.85	0
Townsend	July	4	64	29	1266.45	0		Townsend	August	4	95	27.2	2107.05	0
Townsend	July	5	65	30.1	1296.55	0.33		Townsend	August	5	96	26.25	2133.3	0
Townsend	July	6	66	29.65	1326.2	0.57		Townsend	August	6	97	28.4	2161.7	0
Townsend	July	7	67	27.95	1354.15	0.01		Townsend	August	7	98	26.05	2187.75	1.21
Townsend	July	8	68	21.25	1375.4	0.32		Townsend	August	8	99	26.05	2213.8	0
Townsend	July	9	69	24	1399.4	0		Townsend	August	9	100	26.1	2239.9	0
Townsend	July	10	70	26.1	1425.5	0		Townsend	August	10	101	20.65	2260.55	0
Townsend	July	11	71	28.3	1453.8	1.16		Townsend	August	11	102	19.9	2280.45	0
Townsend	July	12	72	28.15	1481.95	0.01		Townsend	August	12	103	22.8	2303.25	0
Townsend	July	13	73	24.7	1506.65	0		Townsend	August	13	104	27.45	2330.7	0.02
Townsend	July	14	74	27.75	1534.4	0		Townsend	August	14	105	26.3	2357	0.12
Townsend	July	15	75	24.8	1559.2	0		Townsend	August	15	106	25.75	2382.75	0
Townsend	July	16	76	26	1585.2	0		Townsend	August	16	107	27.45	2410.2	0.02
Townsend	July	17	77	29.7	1614.9	0.24		Townsend	August	17	108	29.95	2440.15	0
Townsend	July	18	78	29.65	1644.55	0.05		Townsend	August	18	109	29.75	2469.9	0.03
Townsend	July	19	79	29.75	1674.3	0		Townsend	August	19	110	30.2	2500.1	0
Townsend	July	20	80	31.7	1706	0		Townsend	August	20	111	29.5	2529.6	0
Townsend	July	21	81	31.55	1737.55	0		Townsend	August	21	112	27.85	2557.45	0
Townsend	July	22	82	29.15	1766.7	0.35		Townsend	August	22	113	28.6	2586.05	0.13
Townsend	July	23	83	22.3	1789	0.1		Townsend	August	23	114	18.15	2604.2	0.64
Townsend	July	24	84	22.7	1811.7	0.02		Townsend	August	24	115	17.25	2621.45	0
Townsend	July	25	85	23.55	1835.25	0		Townsend	August	25	116	16.4	2637.85	0
Townsend	July	26	86	23.4	1858.65	0		Townsend	August	26	117	15.95	2653.8	0
Townsend	July	27	87	24.9	1883.55	0		Townsend	August	27	118	18.15	2671.95	0
Townsend	July	28	88	27.8	1911.35	0		Townsend	August	28	119	23.8	2695.75	0
Townsend	July	29	89	28.6	1939.95	0		Townsend	August	29	120	20.35	2716.1	0
Townsend	July	30	90	30.7	1970.65	0		Townsend	August	30	121	21.55	2737.65	0
Townsend	July	31	91	28.9	1999.55	0		Townsend	August	31	122	24.25	2761.9	0

Table 2 continued...

Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rrainfall		Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall
Dover	April	30	1	13.7	13.7	0		Dover	June	1	33	22.75	551.4	0
Dover	May	1	2	8.1	21.8	0		Dover	June	2	34	23.8	575.2	0.06
Dover	May	2	3	19.9	41.7	0.07		Dover	June	3	35	13.35	588.55	0
Dover	May	3	4	13.05	54.75	0		Dover	June	4	36	12.25	600.8	0
Dover	May	4	5	16.8	71.55	0		Dover	June	5	37	24.75	625.55	0.04
Dover	May	5	6	6.2	77.75	1.12		Dover	June	6	38	28.05	653.6	0.05
Dover	May	6	7	13.6	91.35	0		Dover	June	7	39	24.5	678.1	0
Dover	May	7	8	16.05	107.4	0		Dover	June	8	40	22.2	700.3	0
Dover	May	8	9	14.5	121.9	0		Dover	June	9	41	20.1	720.4	0.1
Dover	May	9	10	13.25	135.15	0.02		Dover	June	10	42	20.9	741.3	2.16
Dover	May	10	11	20.6	155.75	0.1		Dover	June	11	43	19.15	760.45	0.22
Dover	May	11	12	13.6	169.35	0.31		Dover	June	12	44	14.05	774.5	0
Dover	May	12	13	4.45	173.8	0.96		Dover	June	13	45	18.4	792.9	1.33
Dover	May	13	14	1.7	175.5	0.71		Dover	June	14	46	14.8	807.7	0
Dover	May	14	15	4.9	180.4	0.01		Dover	June	15	47	18.95	826.65	0
Dover	May	15	16	11.05	191.45	0		Dover	June	16	48	26.25	852.9	0
Dover	May	16	17	13.7	205.15	0.07		Dover	June	17	49	28.9	881.8	0
Dover	May	17	18	19.4	224.55	0		Dover	June	18	50	28.2	910	0.14
Dover	May	18	19	18.8	243.35	0		Dover	June	19	51	28.1	938.1	0.03
Dover	May	19	20	23.4	266.75	0		Dover	June	20	52	28.75	966.85	0.09
Dover	May	20	21	27.9	294.65	0		Dover	June	21	53	23.1	989.95	0.14
Dover	May	21	22	13.65	308.3	0		Dover	June	22	54	20.3	1010.25	0
Dover	May	22	23	12.15	320.45	0		Dover	June	23	55	19.6	1029.85	0
Dover	May	23	24	20	340.45	0.13		Dover	June	24	56	24.05	1053.9	0
Dover	May	24	25	22.55	363	0		Dover	June	25	57	27.8	1081.7	0
Dover	May	25	26	16.1	379.1	0		Dover	June	26	58	25.15	1106.85	0
Dover	May	26	27	25.45	404.55	1.8		Dover	June	27	59	27.9	1134.75	0
Dover	May	27	28	22.55	427.1	0.01		Dover	June	28	60	27	1161.75	0
Dover	May	28	29	24.6	451.7	0.44		Dover	June	29	61	27.75	1189.5	0.46
Dover	May	29	30	25.7	477.4	0.11		Dover	June	30	62	28.3	1217.8	0
Dover	May	30	31	26.9	504.3	0.21								
Dover	May	31	32	24.35	528.65	0								



Table 2 continued...

Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall		Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall
Dover	July	1	63	21.4	1239.2	0		Dover	August	1	94	27.65	2092.85	0.66
Dover	July	2	64	24.95	1264.15	0.05		Dover	August	2	95	26.2	2119.05	0
Dover	July	3	65	28	1292.15	0		Dover	August	3	96	26.4	2145.45	0
Dover	July	4	66	29.3	1321.45	0		Dover	August	4	97	28.1	2173.55	0
Dover	July	5	67	30.8	1352.25	0.38		Dover	August	5	98	27.1	2200.65	0
Dover	July	6	68	29.35	1381.6	0.79		Dover	August	6	99	29	2229.65	0
Dover	July	7	69	28.3	1409.9	0.84		Dover	August	7	100	26.45	2256.1	0.65
Dover	July	8	70	21.45	1431.35	0.39		Dover	August	8	101	26.3	2282.4	0.01
Dover	July	9	71	24.45	1455.8	0		Dover	August	9	102	27.45	2309.85	0
Dover	July	10	72	26.85	1482.65	0		Dover	August	10	103	21.15	2331	0
Dover	July	11	73	27.9	1510.55	1.75		Dover	August	11	104	20.65	2351.65	0
Dover	July	12	74	28.65	1539.2	0.01		Dover	August	12	105	22.65	2374.3	0
Dover	July	13	75	26.15	1565.35	0		Dover	August	13	106	27.65	2401.95	0.02
Dover	July	14	76	29.05	1594.4	0		Dover	August	14	107	27.65	2429.6	0.01
Dover	July	15	77	26.05	1620.45	0		Dover	August	15	108	25.3	2454.9	0
Dover	July	16	78	26.1	1646.55	0		Dover	August	16	109	27.3	2482.2	0.02
Dover	July	17	79	29.65	1676.2	0.52		Dover	August	17	110	29.85	2512.05	0.05
Dover	July	18	80	30.7	1706.9	0.52		Dover	August	18	111	30.05	2542.1	0
Dover	July	19	81	30.1	1737	0		Dover	August	19	112	30.15	2572.25	0
Dover	July	20	82	32.25	1769.25	0		Dover	August	20	113	28.55	2600.8	0
Dover	July	21	83	32.15	1801.4	0		Dover	August	21	114	28.9	2629.7	0
Dover	July	22	84	29.4	1830.8	0		Dover	August	22	115	28.3	2658	0.4
Dover	July	23	85	23.7	1854.5	0.08		Dover	August	23	116	19.5	2677.5	0.27
Dover	July	24	86	23.3	1877.8	0		Dover	August	24	117	17.55	2695.05	0.01
Dover	July	25	87	24.05	1901.85	0		Dover	August	25	118	16.95	2712	0
Dover	July	26	88	23.7	1925.55	0		Dover	August	26	119	16.95	2728.95	0
Dover	July	27	89	25.3	1950.85	0		Dover	August	27	120	18.2	2747.15	0
Dover	July	28	90	27.45	1978.3	0		Dover	August	28	121	24.05	2771.2	0
Dover	July	29	91	28.8	2007.1	0		Dover	August	29	122	20.95	2792.15	0
Dover	July	30	92	29.85	2036.95	0		Dover	August	30	123	21.65	2813.8	0
Dover	July	31	93	28.25	2065.2	0.03		Dover	August	31	124	24.6	2838.4	0

Table 2 continued...

Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall		Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall
Laurel	April	29	1	5.5	5.5	0		Laurel	June	1	34	23.05	581.4	0
Laurel	April	30	2	15.9	21.4	0		Laurel	June	2	35	23.95	605.35	0.17
Laurel	May	1	3	15.75	37.15	0		Laurel	June	3	36	13.6	618.95	0
Laurel	May	2	4	21.45	58.6	0.73		Laurel	June	4	37	12.05	631	0
Laurel	May	3	5	19.75	78.35	0.04		Laurel	June	5	38	21.95	652.95	0.41
Laurel	May	4	6	20.05	98.4	0		Laurel	June	6	39	28.5	681.45	0.29
Laurel	May	5	7	6.85	105.25	0.36		Laurel	June	7	40	23.15	704.6	0
Laurel	May	6	8	11.45	116.7	0.02		Laurel	June	8	41	19.35	723.95	0
Laurel	May	7	9	13.55	130.25	0		Laurel	June	9	42	18.8	742.75	0.07
Laurel	May	8	10	16.1	146.35	0		Laurel	June	10	43	25.5	768.25	0.14
Laurel	May	9	11	16.55	162.9	0		Laurel	June	11	44	17.25	785.5	0.16
Laurel	May	10	12	18.8	181.7	0		Laurel	June	12	45	15.2	800.7	0
Laurel	May	11	13	15.2	196.9	0.33		Laurel	June	13	46	19	819.7	0.89
Laurel	May	12	14	5.35	202.25	0.39		Laurel	June	14	47	15.2	834.9	0.01
Laurel	May	13	15	2.8	205.05	0.74		Laurel	June	15	48	16.95	851.85	0
Laurel	May	14	16	5.35	210.4	0		Laurel	June	16	49	26.55	878.4	0
Laurel	May	15	17	10.35	220.75	0		Laurel	June	17	50	27.65	906.05	0.49
Laurel	May	16	18	13.8	234.55	0.03		Laurel	June	18	51	27.7	933.75	0.94
Laurel	May	17	19	16.25	250.8	0		Laurel	June	19	52	28.15	961.9	0.05
Laurel	May	18	20	19.5	270.3	0		Laurel	June	20	53	28.4	990.3	0
Laurel	May	19	21	23.15	293.45	0.09		Laurel	June	21	54	23.35	1013.65	0.16
Laurel	May	20	22	28.3	321.75	0.43		Laurel	June	22	55	19.4	1033.05	0
Laurel	May	21	23	13.9	335.65	0		Laurel	June	23	56	17.6	1050.65	0
Laurel	May	22	24	11.3	346.95	0		Laurel	June	24	57	23.35	1074	0
Laurel	May	23	25	18.95	365.9	0.48		Laurel	June	25	58	28.15	1102.15	0
Laurel	May	24	26	21.85	387.75	0		Laurel	June	26	59	24.7	1126.85	0
Laurel	May	25	27	17.25	405	0		Laurel	June	27	60	26.65	1153.5	0
Laurel	May	26	28	27.3	432.3	0.01		Laurel	June	28	61	27	1180.5	0
Laurel	May	27	29	23.55	455.85	0		Laurel	June	29	62	28.75	1209.25	0.04
Laurel	May	28	30	23.95	479.8	0.07		Laurel	June	30	63	26.8	1236.05	0
Laurel	May	29	31	26.85	506.65	0								
Laurel	May	30	32	26.2	532.85	0.36								
Laurel	May	31	33	25.5	558.35	0								

Table 2 continued...

Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall		Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall
Laurel	July	1	64	21.1	1257.15	0		Laurel	August	1	95	26	2086.75	1.42
Laurel	July	2	65	23.65	1280.8	0		Laurel	August	2	96	25.05	2111.8	0.03
Laurel	July	3	66	27.05	1307.85	0		Laurel	August	3	97	27.1	2138.9	0
Laurel	July	4	67	28.45	1336.3	0.35		Laurel	August	4	98	27.25	2166.15	0
Laurel	July	5	68	30.05	1366.35	0		Laurel	August	5	99	27.7	2193.85	0.13
Laurel	July	6	69	30.05	1396.4	0.13		Laurel	August	6	100	28.65	2222.5	0
Laurel	July	7	70	28.3	1424.7	0.02		Laurel	August	7	101	28.4	2250.9	0
Laurel	July	8	71	21.1	1445.8	0.21		Laurel	August	8	102	26.35	2277.25	0
Laurel	July	9	72	22.7	1468.5	0		Laurel	August	9	103	26.85	2304.1	0.02
Laurel	July	10	73	24	1492.5	0		Laurel	August	10	104	20.8	2324.9	0
Laurel	July	11	74	25.45	1517.95	0.83		Laurel	August	11	105	21.85	2346.75	0
Laurel	July	12	75	28.65	1546.6	0.01		Laurel	August	12	106	21.55	2368.3	0
Laurel	July	13	76	26.7	1573.3	0		Laurel	August	13	107	28.6	2396.9	0.73
Laurel	July	14	77	27.3	1600.6	0		Laurel	August	14	108	29.2	2426.1	0
Laurel	July	15	78	25.95	1626.55	0		Laurel	August	15	109	25.85	2451.95	0
Laurel	July	16	79	27.4	1653.95	0		Laurel	August	16	110	27.35	2479.3	0
Laurel	July	17	80	29.4	1683.35	0.63		Laurel	August	17	111	29.2	2508.5	0.01
Laurel	July	18	81	30.5	1713.85	0.2		Laurel	August	18	112	29.3	2537.8	0
Laurel	July	19	82	30	1743.85	0		Laurel	August	19	113	29.15	2566.95	0
Laurel	July	20	83	31.9	1775.75	0		Laurel	August	20	114	28.75	2595.7	0.22
Laurel	July	21	84	31.9	1807.65	0		Laurel	August	21	115	28.15	2623.85	0.02
Laurel	July	22	85	29.75	1837.4	0		Laurel	August	22	116	28.15	2652	0.42
Laurel	July	23	86	23.75	1861.15	0.54		Laurel	August	23	117	22	2674	0.47
Laurel	July	24	87	22.95	1884.1	0.01		Laurel	August	24	118	18.1	2692.1	0
Laurel	July	25	88	23	1907.1	0		Laurel	August	25	119	16.75	2708.85	0
Laurel	July	26	89	23.1	1930.2	0		Laurel	August	26	120	17.5	2726.35	0
Laurel	July	27	90	23.4	1953.6	0		Laurel	August	27	121	18	2744.35	0
Laurel	July	28	91	24.95	1978.55	0		Laurel	August	28	122	24.8	2769.15	0
Laurel	July	29	92	27.3	2005.85	0		Laurel	August	29	123	21.75	2790.9	0
Laurel	July	30	93	28	2033.85	0.01		Laurel	August	30	124	21.15	2812.05	0
Laurel	July	31	94	26.9	2060.75	0.19		Laurel	August	31	125	25.3	2837.35	0

Table 2 continued...

Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rrainfall		Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall
Dover	April	30	1	13.7	13.7	0		Dover	June	1	33	22.75	551.4	0
Dover	May	1	2	8.1	21.8	0		Dover	June	2	34	23.8	575.2	0.06
Dover	May	2	3	19.9	41.7	0.07		Dover	June	3	35	13.35	588.55	0
Dover	May	3	4	13.05	54.75	0		Dover	June	4	36	12.25	600.8	0
Dover	May	4	5	16.8	71.55	0		Dover	June	5	37	24.75	625.55	0.04
Dover	May	5	6	6.2	77.75	1.12		Dover	June	6	38	28.05	653.6	0.05
Dover	May	6	7	13.6	91.35	0		Dover	June	7	39	24.5	678.1	0
Dover	May	7	8	16.05	107.4	0		Dover	June	8	40	22.2	700.3	0
Dover	May	8	9	14.5	121.9	0		Dover	June	9	41	20.1	720.4	0.1
Dover	May	9	10	13.25	135.15	0.02		Dover	June	10	42	20.9	741.3	2.16
Dover	May	10	11	20.6	155.75	0.1		Dover	June	11	43	19.15	760.45	0.22
Dover	May	11	12	13.6	169.35	0.31		Dover	June	12	44	14.05	774.5	0
Dover	May	12	13	4.45	173.8	0.96		Dover	June	13	45	18.4	792.9	1.33
Dover	May	13	14	1.7	175.5	0.71		Dover	June	14	46	14.8	807.7	0
Dover	May	14	15	4.9	180.4	0.01		Dover	June	15	47	18.95	826.65	0
Dover	May	15	16	11.05	191.45	0		Dover	June	16	48	26.25	852.9	0
Dover	May	16	17	13.7	205.15	0.07		Dover	June	17	49	28.9	881.8	0
Dover	May	17	18	19.4	224.55	0		Dover	June	18	50	28.2	910	0.14
Dover	May	18	19	18.8	243.35	0		Dover	June	19	51	28.1	938.1	0.03
Dover	May	19	20	23.4	266.75	0		Dover	June	20	52	28.75	966.85	0.09
Dover	May	20	21	27.9	294.65	0		Dover	June	21	53	23.1	989.95	0.14
Dover	May	21	22	13.65	308.3	0		Dover	June	22	54	20.3	1010.25	0
Dover	May	22	23	12.15	320.45	0		Dover	June	23	55	19.6	1029.85	0
Dover	May	23	24	20	340.45	0.13		Dover	June	24	56	24.05	1053.9	0
Dover	May	24	25	22.55	363	0		Dover	June	25	57	27.8	1081.7	0
Dover	May	25	26	16.1	379.1	0		Dover	June	26	58	25.15	1106.85	0
Dover	May	26	27	25.45	404.55	1.8		Dover	June	27	59	27.9	1134.75	0
Dover	May	27	28	22.55	427.1	0.01		Dover	June	28	60	27	1161.75	0
Dover	May	28	29	24.6	451.7	0.44		Dover	June	29	61	27.75	1189.5	0.46
Dover	May	29	30	25.7	477.4	0.11		Dover	June	30	62	28.3	1217.8	0
Dover	May	30	31	26.9	504.3	0.21								
Dover	May	31	32	24.35	528.65	0								

Table 2 continued...

Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall		Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall
Dover	July	1	63	21.4	1239.2	0		Dover	August	1	94	27.65	2092.85	0.66
Dover	July	2	64	24.95	1264.15	0.05		Dover	August	2	95	26.2	2119.05	0
Dover	July	3	65	28	1292.15	0		Dover	August	3	96	26.4	2145.45	0
Dover	July	4	66	29.3	1321.45	0		Dover	August	4	97	28.1	2173.55	0
Dover	July	5	67	30.8	1352.25	0.38		Dover	August	5	98	27.1	2200.65	0
Dover	July	6	68	29.35	1381.6	0.79		Dover	August	6	99	29	2229.65	0
Dover	July	7	69	28.3	1409.9	0.84		Dover	August	7	100	26.45	2256.1	0.65
Dover	July	8	70	21.45	1431.35	0.39		Dover	August	8	101	26.3	2282.4	0.01
Dover	July	9	71	24.45	1455.8	0		Dover	August	9	102	27.45	2309.85	0
Dover	July	10	72	26.85	1482.65	0		Dover	August	10	103	21.15	2331	0
Dover	July	11	73	27.9	1510.55	1.75		Dover	August	11	104	20.65	2351.65	0
Dover	July	12	74	28.65	1539.2	0.01		Dover	August	12	105	22.65	2374.3	0
Dover	July	13	75	26.15	1565.35	0		Dover	August	13	106	27.65	2401.95	0.02
Dover	July	14	76	29.05	1594.4	0		Dover	August	14	107	27.65	2429.6	0.01
Dover	July	15	77	26.05	1620.45	0		Dover	August	15	108	25.3	2454.9	0
Dover	July	16	78	26.1	1646.55	0		Dover	August	16	109	27.3	2482.2	0.02
Dover	July	17	79	29.65	1676.2	0.52		Dover	August	17	110	29.85	2512.05	0.05
Dover	July	18	80	30.7	1706.9	0.52		Dover	August	18	111	30.05	2542.1	0
Dover	July	19	81	30.1	1737	0		Dover	August	19	112	30.15	2572.25	0
Dover	July	20	82	32.25	1769.25	0		Dover	August	20	113	28.55	2600.8	0
Dover	July	21	83	32.15	1801.4	0		Dover	August	21	114	28.9	2629.7	0
Dover	July	22	84	29.4	1830.8	0		Dover	August	22	115	28.3	2658	0.4
Dover	July	23	85	23.7	1854.5	0.08		Dover	August	23	116	19.5	2677.5	0.27
Dover	July	24	86	23.3	1877.8	0		Dover	August	24	117	17.55	2695.05	0.01
Dover	July	25	87	24.05	1901.85	0		Dover	August	25	118	16.95	2712	0
Dover	July	26	88	23.7	1925.55	0		Dover	August	26	119	16.95	2728.95	0
Dover	July	27	89	25.3	1950.85	0		Dover	August	27	120	18.2	2747.15	0
Dover	July	28	90	27.45	1978.3	0		Dover	August	28	121	24.05	2771.2	0
Dover	July	29	91	28.8	2007.1	0		Dover	August	29	122	20.95	2792.15	0
Dover	July	30	92	29.85	2036.95	0		Dover	August	30	123	21.65	2813.8	0
Dover	July	31	93	28.25	2065.2	0.03		Dover	August	31	124	24.6	2838.4	0

Table 2 continued...

Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall		Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall
Georgetown	May	9	1	16.65	16.65	0		Georgetown	June	1	24	23.35	445.45	0
Georgetown	May	10	2	21.1	37.75	0		Georgetown	June	2	25	24.25	469.7	0.06
Georgetown	May	11	3	15.75	53.5	0.22		Georgetown	June	3	26	14.7	484.4	0
Georgetown	May	12	4	5.1	58.6	0.5		Georgetown	June	4	27	12.3	496.7	0
Georgetown	May	13	5	2.9	61.5	0.88		Georgetown	June	5	28	23.7	520.4	0.34
Georgetown	May	14	6	5.5	67	0		Georgetown	June	6	29	28.7	549.1	0.1
Georgetown	May	15	7	10.95	77.95	0		Georgetown	June	7	30	22.95	572.05	0
Georgetown	May	16	8	14	91.95	0.04		Georgetown	June	8	31	19.15	591.2	0
Georgetown	May	17	9	18.05	110	0		Georgetown	June	9	32	18.7	609.9	0.13
Georgetown	May	18	10	19.05	129.05	0		Georgetown	June	10	33	25.35	635.25	0.74
Georgetown	May	19	11	23.3	152.35	0		Georgetown	June	11	34	18.85	654.1	0.28
Georgetown	May	20	12	29.5	181.85	0		Georgetown	June	12	35	15.6	669.7	0
Georgetown	May	21	13	15.35	197.2	0		Georgetown	June	13	36	19.4	689.1	0.71
Georgetown	May	22	14	12	209.2	0		Georgetown	June	14	37	15.8	704.9	0.04
Georgetown	May	23	15	19.4	228.6	0.24		Georgetown	June	15	38	18.2	723.1	0
Georgetown	May	24	16	23.3	251.9	0		Georgetown	June	16	39	26.2	749.3	0
Georgetown	May	25	17	16.75	268.65	0		Georgetown	June	17	40	28.1	777.4	0.26
Georgetown	May	26	18	27	295.65	0.03		Georgetown	June	18	41	27.9	805.3	0.62
Georgetown	May	27	19	23.15	318.8	0.17		Georgetown	June	19	42	28.65	833.95	0.04
Georgetown	May	28	20	24	342.8	0.57		Georgetown	June	20	43	28.2	862.15	0.54
Georgetown	May	29	21	27.05	369.85	0		Georgetown	June	21	44	24.15	886.3	0.31
Georgetown	May	30	22	26.8	396.65	0.45		Georgetown	June	22	45	20.5	906.8	0
Georgetown	May	31	23	25.45	422.1	0		Georgetown	June	23	46	19.45	926.25	0
								Georgetown	June	24	47	24.65	950.9	0
								Georgetown	June	25	48	29.45	980.35	0
								Georgetown	June	26	49	27.05	1007.4	0
								Georgetown	June	27	50	27.1	1034.5	0
								Georgetown	June	28	51	27.1	1061.6	0
								Georgetown	June	29	52	28.85	1090.45	0.05
								Georgetown	June	30	53	28.1	1118.55	0

Table 2 continued...

Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall		Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall
Georgetown	July	1	54	22.2	1140.75	0		Georgetown	August	1	85	25.95	1989.25	0.72
Georgetown	July	2	55	24.75	1165.5	0		Georgetown	August	2	86	25.5	2014.75	0.6
Georgetown	July	3	56	27.65	1193.15	0		Georgetown	August	3	87	27.2	2041.95	0
Georgetown	July	4	57	28.95	1222.1	0		Georgetown	August	4	88	27.6	2069.55	0
Georgetown	July	5	58	30.5	1252.6	0.06		Georgetown	August	5	89	28.7	2098.25	0.02
Georgetown	July	6	59	30.2	1282.8	0.04		Georgetown	August	6	90	28.7	2126.95	0
Georgetown	July	7	60	28.6	1311.4	0		Georgetown	August	7	91	27.95	2154.9	0.29
Georgetown	July	8	61	22.6	1334	0.25		Georgetown	August	8	92	26.65	2181.55	0
Georgetown	July	9	62	23.8	1357.8	0		Georgetown	August	9	93	27.95	2209.5	0
Georgetown	July	10	63	24.7	1382.5	0		Georgetown	August	10	94	22.45	2231.95	0
Georgetown	July	11	64	25.7	1408.2	0.46		Georgetown	August	11	95	22.5	2254.45	0
Georgetown	July	12	65	29.2	1437.4	0		Georgetown	August	12	96	22.6	2277.05	0
Georgetown	July	13	66	27.75	1465.15	0		Georgetown	August	13	97	27.7	2304.75	0.61
Georgetown	July	14	67	28.75	1493.9	0		Georgetown	August	14	98	29.15	2333.9	0
Georgetown	July	15	68	27.05	1520.95	0		Georgetown	August	15	99	25.55	2359.45	0
Georgetown	July	16	69	27.9	1548.85	0		Georgetown	August	16	100	27.7	2387.15	0
Georgetown	July	17	70	29.9	1578.75	0.07		Georgetown	August	17	101	29.45	2416.6	0.46
Georgetown	July	18	71	30.4	1609.15	0.01		Georgetown	August	18	102	30.2	2446.8	0
Georgetown	July	19	72	30.35	1639.5	0		Georgetown	August	19	103	29.85	2476.65	0.57
Georgetown	July	20	73	32.85	1672.35	0		Georgetown	August	20	104	29.4	2506.05	0
Georgetown	July	21	74	32.4	1704.75	0		Georgetown	August	21	105	28.7	2534.75	0.02
Georgetown	July	22	75	30.15	1734.9	0.01		Georgetown	August	22	106	28.45	2563.2	0.18
Georgetown	July	23	76	24.05	1758.95	0.83		Georgetown	August	23	107	22.35	2585.55	0.62
Georgetown	July	24	77	23.85	1782.8	0.09		Georgetown	August	24	108	19.3	2604.85	0
Georgetown	July	25	78	23.25	1806.05	0		Georgetown	August	25	109	16.15	2621	0.06
Georgetown	July	26	79	23.6	1829.65	0		Georgetown	August	26	110	18.15	2639.15	0
Georgetown	July	27	80	24.3	1853.95	0		Georgetown	August	27	111	18.25	2657.4	0
Georgetown	July	28	81	25.95	1879.9	0		Georgetown	August	28	112	25.65	2683.05	0
Georgetown	July	29	82	28.05	1907.95	0		Georgetown	August	29	113	22.1	2705.15	0
Georgetown	July	30	83	28.35	1936.3	0		Georgetown	August	30	114	22.2	2727.35	0
Georgetown	July	31	84	27	1963.3	0.22		Georgetown	August	31	115	25.15	2752.5	0

## Delaware field corn performance trials hybrid entries

Brand	Hybrid	Trait	Relative maturity	Maturity group
MorCorn	MC 3952	VT2P	109	Early
Armor	A0508	VT2P	105	Early
Armor	X8105B	VT2P	105	Early
Armor	A0887	VT2P	108	Early
Armor	A0919	VT2P	109	Early
NK	NK0886-3120	BT/RR	108	Early
NK	NK0968-3330	BT/RR	109	Early
Local Seed Co.	LC0657 SSXRIB	SmartStax	106	Early
Local Seed Co.	LC0877 VT2PRIB	VT Double Pro	108	Early
Local Seed Co.	LC0978 VT2PRIB	VT Double Pro	109	Early
LG Seeds	LG60C33VT2PRO	VT2PRO	110	Early
LG Seeds	LG5590VT2RIB	VT2RIB	110	Early
Seed Consultants Inc.	SCS 1069YHR	RR2/HX/LL/YGCB	106	Early
Seed Consultants Inc.	SCS 1087YHR	RR2/HX/LL/YGCB	108	Early
Seed Consultants Inc.	SCS 1105AM	Poncho 1250	109	Early
Agventure	AV4104YHB	Optimum Intrasect	104	Early
Agventure	AV6805AM	Optimum Intrasect	105	Early
Agventure	AV4509VYHR	Optimum Letra	109	Early
Agventure	AV7808YHB	Optimum Intrasect	108	Early
Agventure	AV5799AM		99	Early
Agventure	AV7408AM		107	Early
DeKalb	<b>DKC62-53RIB (Check)</b>	VT DoublePro	112	Early
Dyna-Gro	<b>D52VC63 (Check)</b>	VT Double Pro	112	Early
MorCorn	MC 4255	VT2P	112	Early-Medium
MorCorn	MC 4319	VT2P	113	Early-Medium
Armor	A1118	VT2P	111	Early-Medium
Armor	A1299	VT2P	112	Early-Medium
Armor	A1447	VT2P	114	Early-Medium
NK	NK1205-3120	BT/RR	112	Early-Medium
Local Seed Co.	LC1289 VT2P	VT Double Pro	112	Early-Medium
Local Seed Co.	ZS1487	Conventional	114	Early-Medium
Local Seed Co.	LC1488 VT2PRIB	VT Double Pro	114	Early-Medium
Local Seed Co.	LC1577 VT2PRIB	VT Double Pro	115	Early-Medium
Local Seed Co.	LC1586 TC	Trecepta	115	Early-Medium
LG Seeds	LG62C02VT2RIB	VT2PRO	112	Early-Medium
LG Seeds	LG5643VT2RIB	VT2PRO	114	Early-Medium
LG Seeds	LG64C30TRCRIB	Trecepta RIB	114	Early-Medium
Seed Consultants Inc.	SCS 1139AM	RR2/HX/LL/YGCB	113	Early-Medium
Seed Consultants Inc.	SCS 1158YHR	RR2/HX/LL/YGCB	115	Early-Medium
Agventure	AV8714VYHR	Optimum Leptra	114	Early-Medium
DeKalb	<b>DKC65-95RIB (Check)</b>	VT DoublePro	115	Early-Medium
Dyna-Gro	<b>D54VC52 (Check)</b>	VT Double Pro	114	Early-Medium
Phoenix	6507A3	Agrisure 3000GT	115	Medium
NK	NK1573-3330	BT/RR	115	Medium
Local Seed Co.	LC1776 VT2P	VT Double Pro	117	Medium
Local Seed Co.	LC1987 VT2P	VT Double Pro	119	Medium
LG Seeds	LG5650VT2RIB	VT2RIB	115	Medium
LG Seeds	LG66C32VT2RIB	VT2RIB	116	Medium
Seed Consultants Inc.	SCS 1168YHR	Poncho 1250 Intrasect	117	Medium
Seed Consultants Inc.	SCS 1188AM	RR2/HX/LL/YGCB	118	Medium
DeKalb	<b>DKC70-27RIB (Check)</b>	VT DoublePro	120	Medium
Dyna-Gro	<b>D58VC65 (Check)</b>	VT Double Pro	118	Medium



## Seed company contact

Company	Address	Phone	Web
AgVenture	7300 NW 62nd Ave Johnston, IA 50131	515-535-0800	www.agventure.com
Armor Seed	2532 Alexander Drive, Suite B Jonesboro, AR 72401	662-719-3157	www.armorseed.com
Seed Consultants, Inc.	648 Miami Trace Road SW, Washington Court House, OH 43160	570-980-3906	www.seedconsultants.com
East Coast Seed	17741 Davis Rd Georgetown, DE 19947	302-856-7018	www.eastcoastseed.com
Local Seed	39 Seeds Lane Jersey Shore, PA 17740	570-753-5503	www.localseed.com
LG Seeds	9915 W M21; Ovid, MI 48866	989-834-2251	www.lgseeds.com
MorCorn	1725 Windward Concourse Suite 410 Alpharetta, GA 30005	478-957-9865	www.morecorn.com
Phoenix	1725 Windward Concourse, Suite 410 Alpharetta, GA 30005	478-957-9865	www.phoenixcorn.com
Syngenta	4013 Fairmount Pike, Signal Mountain, TN 37377	717-951-2730	www.syngenta-us.com

## Hybrid genetic traits and description

Trait name	Description
Agrisure® 3000GT BT/RR	Triple stack trait (Corn borer+corn rootworm + Inbred tolerance to glyphosate & glufosinate) Protection against European corn borer, Roundup Ready (Glyphosate tolerance)
Optimum Intrasect	Protection against European corn borer, southwestern corn borer, black cutworm, fall armyworm, western bean cutworm, lesser corn stalk borer, southern corn stalk borer, and sugarcane borer; suppresses corn earworm; and also provide protection from larval injury caused by western corn rootworm, northern corn rootworm and Mexican corn rootworms
Optimum Leptra	Protection against corn earworm, European corn borer, southwestern corn borer, black cutworm, fall armyworm, western bean cutworm, lesser corn stalk borer, southern corn stalk borer and sugarcane borer.
SmartStax RR2/HX/LL/YGCB	Protection against European corn borer, black cutworm, Southwestern corn borer, corn earworm, fall armyworm, western bean cutworm, and below ground feeding larvae of western corn rootworm and northern corn root worm Roundup Ready, herculex, liberty link, yieldGuard + corn borer
Trecepta RIB	Protection against European corn borer, corn earworm, fall armyworm, black cutworm and western bean cutworm.
VT2 RIB	Contains dual models of action protection against (corn earworm, European & Southwestern corn borers & fall armyworm
VT Double pro	Protection against corn earworm and European corn borer
YHR	Protection against European corn borer, southwestern corn borer, black cutworm, fall armyworm, western bean cutworm, lesser corn stalk borer, southern corn stalk borer, and sugarcane borer; suppresses corn earworm; and also provide protection from larval injury caused by western corn rootworm, northern corn rootworm and Mexican corn rootworms

**Table 3. Dryland Corn Hybrid Performance Summary  
Emerson Farms (New Castle County) Middletown, Delaware**

Planted 5/2/2019 & Harvested September 16, Early Hybrids										Performance Ranking for				Pooled sites		Two Year
Brand	Hybrid	Yield Bu/A <sup>1</sup>	% Moisture	Yield/ Moisture	Test Weight	Final Pop	% Stalk Lodging	% Root Lodging	% Relative Yield to Check Avg.	Middletown Dry land	Laurel Irrigated	Georgetown Irrigated	Marydel Irrigated	Yield Avg. Bu/A	Rank	Yield Ave. Bu/A
Armor	A0887	<b>217.5</b>	16.9	12.9	57.7	26625.0	0.0	0.0	103.0	1	13	15	14	228.4	12	
Agventure	AV4509VYHR	<b>213.7</b>	17.3	12.4	58.8	27000.0	0.0	0.0	101.2	2	21	7	8	230.8	8	
Agventure	AV7808YHB	<b>212.7</b>	17.2	12.4	58.5	26750.0	0.0	0.0	100.7	3	2	6	15	236.4	2	223.8
Seed Consultants Inc.	SCS 1069YHR	<b>211.2</b>	17.0	12.5	58.9	27375.0	1.9	0.0	100.1	4	5	9	12	233.8	6	
Seed Consultants Inc.	SCS 1105AM	<b>204.8</b>	17.4	11.7	58.9	27875.0	1.4	0.0	97.0	5	4	5	10	235.7	3	
Agventure	AV6805AM	<b>202.0</b>	16.9	12.0	59.0	24875.0	3.1	0.0	95.7	6	11	11	9	229.1	10	
Seed Consultants Inc.	SCS 1087YHR	<b>200.4</b>	17.3	11.6	57.8	26000.0	0.5	0.0	94.9	7	9	4	3	235.6	4	
Armor	A0919	<b>200.0</b>	18.1	11.1	58.3	26250.0	0.5	0.0	94.7	8	15	20	16	219.8	18	
MorCorn	MC 3952	<b>199.6</b>	17.0	11.7	58.1	26875.0	0.0	0.0	94.5	9	17	13	6	226.4	13	
Local Seed Co.	LC0978 VT2PRIB	<b>199.4</b>	17.5	11.4	58.1	25625.0	0.5	0.0	94.5	10	7	14	11	228.5	11	
DeKalb	DKC62-53RIB (Check)	<b>199.3</b>	17.5	11.4	58.5	26250.0	0.0	0.0	94.4	11	1	1	1	243.1	1	
Local Seed Co.	LC0657 SSXRIB	197.8	17.4	11.4	58.6	26500.0	0.0	0.0	93.7	12	22	21	23	209.9	22	
Agventure	AV4104YHB	197.0	17.6	11.2	58.8	25750.0	1.0	0.0	93.3	13	14	19	7	223.2	15	
NK	NK0886-3120	194.8	16.9	11.6	58.3	27125.0	0.0	0.0	92.3	14	16	16	22	216.0	20	
Local Seed Co.	LC0877 VT2PRIB	194.3	16.9	11.5	58.2	25500.0	0.0	0.0	92.0	15	8	18	18	221.8	16	206.6
LG Seeds	LG60C33VT2PRO	193.4	17.4	11.1	57.8	26375.0	0.9	0.0	91.6	16	20	10	17	221.6	17	
Armor	X8105B	192.6	16.8	11.5	59.2	25750.0	1.0	0.0	91.2	17	18	17	20	217.4	19	
LG Seeds	LG5590VT2RIB	191.7	16.8	11.4	57.7	26875.0	1.0	0.0	90.8	18	10	8	5	230.5	9	
Armor	A0508	191.5	16.8	11.4	59.9	26375.0	0.5	0.0	90.7	19	19	23	19	212.0	21	192.8
Agventure	AV5799AM	191.5	16.8	11.4	58.8	24875.0	0.5	0.0	90.7	20	23	22	21	208.3	23	
Agventure	AV7408AM	189.6	16.9	11.2	57.3	26000.0	0.0	0.0	89.8	21	12	3	2	232.8	7	
Dyna-Gro	D52VC63 (Check)	186.5	17.4	10.7	58.0	27375.0	0.5	0.0	88.4	22	6	2	4	233.9	5	
NK	NK0968-3330	178.3	16.8	10.7	55.1	26375.0	0.5	0.0	84.4	23	3	12	13	224.3	14	

<b>Check Avg.</b>	192.9	17.5	11.0	58.2	26812.5	0.2	
<b>Test Avg.</b>	198.2	17.2	11.6	58.3	26364.0	0.6	
<b>LSD (0.05)</b>	18.2	NS	0.8	0.9	1365.8	NS	
<b>% C.V.</b>	5.9	3.4	4.8	1.0	3.4	175.3	
<b>Check Avg. + LSD (0.05)</b>	211.1						

<sup>1</sup>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 4. Dryland Corn Hybrid Performance Summary  
Emerson Farms (New Castle County) Middletown, Delaware**

Planted 5/2/2019 & Harvested September 16, Early-Medium Hybrids										Performance Ranking for				Pooled sites		Two Year Yield Ave. Bu/A
Brand	Hybrid	Yield Bu/A <sup>1</sup>	% Moisture	Yield/Moisture	Test Weight	Final Pop	% Stalk Lodging	% Root Lodging	% Relative Yield to Check Avg.	Middletown Dry land	Laurel Irrigated	Georgetown Irrigated	Marydel Irrigated	Yield Avg. Bu/A	Rank	
LG Seeds	LG5643VT2RIB	<b>223.8</b>	17.8	12.6	57.9	25750.0	0.5	0.0	117.8	1	4	1	3	249.2	1	
Armor	A1118	<b>216.3</b>	17.5	12.4	57.5	26500.0	1.0	0.0	113.8	2	11	16	16	236.2	11	218.8
LG Seeds	LG62C02VT2RIB	<b>211.4</b>	17.5	12.1	57.4	26125.0	1.4	0.0	111.3	3	18	4	2	241.6	4	
Armor	A1447	<b>211.0</b>	18.7	11.3	59.4	26375.0	1.0	0.0	111.0	4	10	2	13	240.3	6	222.3
Armor	A1299	<b>209.5</b>	16.8	12.5	57.6	26750.0	0.5	0.0	110.3	5	5	9	7	241.4	5	
Seed Consultants Inc.	SCS 1139AM	<b>209.1</b>	17.9	11.8	60.3	26500.0	2.8	0.0	110.0	6	17	17	15	231.5	16	
MorCorn	MC 4319	<b>207.7</b>	18.9	11.0	58.1	25000.0	0.0	0.0	109.3	7	14	13	6	238.0	8	221.1
Agventure	AV8714VYHR	<b>205.9</b>	18.0	11.5	59.2	26125.0	0.5	0.0	108.4	8	9	12	1	241.8	3	221.8
Seed Consultants Inc.	SCS 1158YHR	<b>202.9</b>	17.9	11.4	56.8	26625.0	0.5	0.0	106.8	9	1	6	4	243.3	2	
Local Seed Co.	LC1488 VT2PRIB	201.0	17.8	11.3	58.3	27000.0	0.0	0.0	105.8	10	16	3	12	236.4	10	
NK	NK1205-3120	200.7	17.3	11.6	57.5	26500.0	0.5	0.0	105.6	11	19	19	14	218.3	19	
MorCorn	MC 4255	197.8	17.2	11.5	56.6	27125.0	2.3	0.0	104.1	12	15	10	8	235.6	12	
Local Seed Co.	LC1586 TC	197.2	19.2	10.3	59.1	23750.0	1.6	0.0	103.8	13	13	14	18	230.2	17	
DeKalb	DKC65-95RIB (Check)	196.7	18.1	10.9	59.6	26875.0	0.0	0.0	103.5	14	7	15	5	236.5	9	
Local Seed Co.	ZS1487	193.7	17.6	11.0	55.5	25875.0	0.0	0.0	101.9	15	6	18	19	227.2	18	214.4
Local Seed Co.	LC1577 VT2PRIB	192.5	17.7	10.9	60.1	26375.0	0.5	0.0	101.3	16	12	11	11	234.2	14	
LG Seeds	LG64C30TRCRIB	190.7	17.8	10.8	58.8	26125.0	2.4	0.0	100.4	17	2	5	10	239.0	7	
Local Seed Co.	LC1289 VT2P	186.8	17.4	10.7	56.9	26250.0	0.0	0.0	98.3	18	8	7	9	235.2	13	217.2
Dyna-Gro	D54VC52 (Check)	183.3	18.0	10.2	57.6	22875.0	0.0	0.0	96.4	19	3	8	17	232.9	15	
<b>Check Avg.</b>		190.0	18.0	10.6	58.6	24875.0	0.0									
<b>Test Avg.</b>		202.0	17.8	11.3	58.1	26026.0	0.8									
<b>LSD (0.05)</b>		21.4	NS	1.0	1.5	1324.5	NS									
<b>% C.V.</b>		6.9	6.9	6.2	1.8	3.3	167.3									
<b>Check Avg. + LSD (0.05)</b>		211.4														

<sup>1</sup>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 5. Dryland Corn Hybrid Performance Summary  
Emerson Farms (New Castle County) Middletown, Delaware**

Planted 5/2/2019 & Harvested September 16, Medium Hybrids										Performance Ranking for				Pooled sites		
Brand	Hybrid	Yield Bu/A <sup>1</sup>	% Moisture	Yield/ Moisture	Test Weight	Final Pop	% Stalk Lodging	% Root Lodging	% Relative Yield to Check Avg.	Middletown Dry land	Laurel Irrigated	Georgetown Irrigated	Marydel Irrigated	Yield Avg. Bu/A	Rank	Two Year Yield Ave. Bu/A
Local Seed Co.	LC1776 VT2P	<b>185.1</b>	18.4	10.1	58.6	26625.0	0.0	0.0	123.9	1	1	5	3	240.2	2	
LG Seeds	LG66C32VT2RIB	<b>184.3</b>	17.5	10.5	59.3	26500.0	0.5	0.0	123.3	2	5	4	2	238.2	3	
LG Seeds	LG5650VT2RIB	<b>182.9</b>	17.3	10.5	60.5	27125.0	0.9	0.0	122.4	3	6	9	4	233.9	5	
Seed Consultants Inc.	SCS 1168YHR	<b>180.1</b>	17.4	10.4	58.1	26000.0	0.0	0.0	120.5	4	2	1	9	242.8	1	
Local Seed Co.	LC1987 VT2P	<b>172.9</b>	19.0	9.1	59.4	26250.0	0.0	0.0	115.7	5	4	3	5	235.4	4	
Dyna-Gro	D58VC65 (Check)	<b>168.3</b>	17.5	9.6	59.6	27750.0	0.0	0.0	112.7	6	3	7	6	231.4	6	
Phoenix	6507A3	<b>162.1</b>	17.3	9.4	55.7	26250.0	8.8	0.0	108.5	7	7	8	8	226.6	7	217.3
NK	NK1573-3330	157.2	16.6	9.5	55.9	26500.0	2.4	0.0	105.2	8	10	10	10	217.0	10	
Seed Consultants Inc.	SCS 1188AM	142.2	17.1	8.4	58.8	28000.0	0.5	0.0	95.2	9	8	2	7	222.8	8	
DeKalb	DKC70-27RIB (Check)	130.5	17.5	7.5	56.0	26625.0	0.0	0.0	87.3	10	9	6	1	221.9	9	
	<b>Check Avg.</b>	149.4	17.5	8.5	57.8	27188.0	0.0									
	<b>Test Avg.</b>	166.5	17.5	9.5	58.2	26763.0	1.3									
	<b>LSD (0.05)</b>	23.5	1.0	1.1	1.1	1065.0	NS									
	<b>% C.V.</b>	9.2	3.8	7.5	1.3	2.4	158.5									
	<b>Check Avg. + LSD (0.05)</b>	172.9														

<sup>1</sup>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 6. Irrigated Corn Hybrid Performance Summary  
Thomas Family Farms (Kent County) Maryland, Delaware**

Planted 4/30/2019 & Harvested September 26, Early Hybrids										Performance Ranking for				Pooled sites		Two Year Yield Ave. Bu/A
Brand	Hybrid	Yield Bu/A <sup>1</sup>	% Moisture	Yield/ Moisture	Test Weight	Final Pop	% Stalk Lodging	% Root Lodging	% Relative Yield to Check Avg.	Marydel Irrigated	Georgetown Irrigated	Laurel Irrigated	Middletown Dry land	Yield Avg. Bu/A	Rank	
DeKalb	DKC62-53RIB (Check)	269.1	16.9	15.9	59.0	31750.0	0.4	0.0	102.4	1	1	1	11	243.1	1	
Agventure	AV7408AM	261.6	16.9	15.5	58.5	32000.0	0.4	0.0	99.5	2	3	12	21	232.8	7	
Seed Consultants Inc.	SCS 1087YHR	257.5	16.9	15.3	58.0	30250.0	0.4	0.0	98.0	3	4	9	7	235.6	4	
Dyna-Gro	D52VC63 (Check)	256.5	17.2	14.9	58.5	30375.0	0.0	0.0	97.6	4	2	6	22	233.9	5	
LG Seeds	LG5590VT2RIB	255.3	16.9	15.1	58.8	31625.0	0.4	0.0	97.1	5	8	10	18	230.5	9	
MorCorn	MC 3952	254.7	16.9	15.1	59.9	31250.0	0.4	0.0	96.9	6	13	17	9	226.4	13	
Agventure	AV4104YHB	252.5	16.8	15.0	59.6	28500.0	1.1	0.0	96.1	7	19	14	13	223.2	15	
Agventure	AV4509VYHR	249.6	16.9	14.8	60.0	31375.0	0.8	0.0	95.0	8	7	21	2	230.8	8	
Agventure	AV6805AM	248.9	16.9	14.7	59.5	28000.0	0.0	0.0	94.7	9	11	11	6	229.1	10	
Seed Consultants Inc.	SCS 1105AM	248.2	16.9	14.7	60.0	31500.0	0.4	0.0	94.4	10	5	4	5	235.7	3	
Local Seed Co.	LC0978 VT2PRIB	247.6	16.9	14.7	60.0	30625.0	0.8	0.0	94.2	11	14	7	10	228.5	11	
Seed Consultants Inc.	SCS 1069YHR	246.4	16.9	14.6	58.9	31375.0	1.6	0.0	93.7	12	9	5	4	233.8	6	
NK	NK0968-3330	244.9	16.7	14.7	56.9	31500.0	2.4	0.0	93.2	13	12	3	23	224.3	14	
Armor	A0887	242.8	16.8	14.5	58.5	30375.0	0.0	0.0	92.4	14	15	13	1	228.4	12	
Agventure	AV7808YHB	240.6	16.8	14.4	59.1	30875.0	0.0	0.0	91.6	15	6	2	3	236.4	2	
Armor	A0919	237.8	16.9	14.1	60.7	29750.0	0.4	0.0	90.5	16	20	15	8	219.8	18	
LG Seeds	LG60C33VT2PRO	236.4	16.8	14.1	58.7	30875.0	0.4	0.0	89.9	17	10	20	16	221.6	17	
Local Seed Co.	LC0877 VT2PRIB	235.6	16.7	14.1	58.0	28500.0	0.4	0.0	89.7	18	18	8	15	221.8	16	
Armor	A0508	235.6	16.8	14.1	59.8	29250.0	0.0	0.0	89.6	19	23	19	19	212.0	21	
Armor	X8105B	231.6	16.9	13.7	59.3	31250.0	0.4	0.0	88.1	20	17	18	17	217.4	19	
Agventure	AV5799AM	222.0	16.9	13.2	59.1	30125.0	0.0	0.0	84.5	21	22	23	20	208.3	23	
NK	NK0886-3120	220.1	16.8	13.1	59.1	30250.0	0.8	0.0	83.7	22	16	16	14	216.0	20	
Local Seed Co.	LC0657 SXRIB	218.9	16.8	13.1	59.8	29875.0	0.4	0.0	83.3	23	21	22	12	209.9	22	

<b>Check Avg.</b>	262.8	17.0	15.4	58.8	31063.0	0.2	
<b>Test Avg.</b>	244.1	16.9	14.5	59.1	30489.0	0.5	
<b>LSD (0.05)</b>	15.7	NS	1.0	0.7	NS	NS	
<b>% C.V.</b>	4.2	0.9	4.2	0.7	5.6	186.2	
<b>Check Avg. + LSD (0.05)</b>	278.5						

<sup>1</sup>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**

**Thomas Family Farms (Kent County)**

Planted 4/30/2019 & Harvested September 26, Early-Medium Hybrids										Marydel Delaware				Performance Ranking for		Pooled sites		Two Year Yield Ave. Bu/A
Brand	Hybrid	Yield Bu/A <sup>1</sup>	% Moisture	Yield/ Moisture	Test Weight	Final Pop	% Stalk Lodging	% Root Lodging	% Relative Yield to Check Avg.	Marydel Irrigated	Georgetown Irrigated	Laurel Irrigated	Middletown Dry land	Yield Avg. Bu/A	Rank			
Agventure	AV8714VYHR	<b>270.7</b>	17.2	15.7	59.7	30125.0	0.4	0.0	106.5	1	12	9	8	241.8	3	221.8		
LG Seeds	LG62C02VT2RIB	<b>268.2</b>	17.0	15.8	59.4	31125.0	1.2	0.0	105.5	2	4	18	3	241.6	4			
LG Seeds	LG5643VT2RIB	<b>267.0</b>	17.1	15.6	57.9	31250.0	0.0	0.0	105.0	3	1	4	1	249.2	1			
Seed Consultants Inc.	SCS 1158YHR	<b>262.9</b>	18.0	14.6	58.9	30500.0	0.0	0.0	103.4	4	6	1	9	243.3	2			
DeKalb	DKC65-95RIB (Check)	<b>260.9</b>	17.6	14.9	60.7	31000.0	0.0	0.0	102.6	5	15	7	14	236.5	9			
MorCorn	MC 4319	<b>260.6</b>	18.3	14.3	58.6	30625.0	0.0	0.0	102.5	6	13	14	7	238.0	8	221.1		
Armor	A1299	<b>260.3</b>	17.0	15.4	59.0	30250.0	0.0	0.0	102.4	7	9	5	5	241.4	5			
MorCorn	MC 4255	<b>258.7</b>	17.1	15.2	58.1	30625.0	0.0	0.0	101.8	8	10	15	12	235.6	12			
Local Seed Co.	LC1289 VT2P	<b>258.1</b>	16.9	15.3	58.4	29375.0	0.4	0.0	101.5	9	7	8	18	235.2	13	217.2		
LG Seeds	LG64C30TRCRIB	<b>258.0</b>	17.4	14.8	59.4	30250.0	0.0	0.0	101.5	10	5	2	17	239.0	7			
Local Seed Co.	LC1577 VT2PRIB	<b>256.4</b>	17.9	14.4	60.7	31375.0	0.0	0.0	100.8	11	11	12	16	234.2	14			
Local Seed Co.	LC1488 VT2PRIB	<b>255.8</b>	17.3	14.8	58.9	30625.0	0.4	0.0	100.6	12	3	16	10	236.4	10			
Armor	A1447	252.3	17.5	14.4	60.4	30875.0	0.0	0.0	99.3	13	2	10	4	240.3	6	222.3		
NK	NK1205-3120	252.0	17.7	14.2	59.1	30375.0	0.4	0.0	99.1	14	19	19	11	218.3	19			
Seed Consultants Inc.	SCS 1139AM	251.8	17.4	14.5	60.1	30375.0	0.0	0.0	99.1	15	17	17	6	231.5	16			
Armor	A1118	250.5	17.4	14.5	58.6	30000.0	0.9	0.0	98.5	16	16	11	2	236.2	11	218.8		
Dyna-Gro	D54VC52 (Check)	247.5	18.1	13.7	58.8	28750.0	0.0	0.0	97.4	17	8	3	19	232.9	15			
Local Seed Co.	LC1586 TC	240.4	19.2	12.5	59.6	29875.0	0.4	0.0	94.6	18	14	13	13	230.2	17			
Local Seed Co.	ZS1487	238.8	17.0	14.1	56.3	31125.0	2.8	3.7	94.0	19	18	6	15	227.2	18	214.4		
	<b>Check Avg.</b>	254.2	17.8	14.3	59.8	29875.0	0.0	0.0										
	<b>Test Avg.</b>	256.3	17.5	14.7	59.1	30447.0	0.4	0.2										
	<b>LSD (0.05)</b>	16.2	0.6	0.9	0.4	NS	1.1	1.8										
	<b>% C.V.</b>	4.0	1.9	4.0	0.5	3.6	173.1	146.7										
	<b>Check Avg. + LSD (0.05)</b>	270.4																

<sup>1</sup>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**

**Thomas Family Farms (Kent County)**

Planted 4/30/2019 & Harvested September 26, Medium Hybrids										Marydel	Delaware	Performance Ranking for				Pooled sites		
Brand	Hybrid	Yield Bu/A <sup>1</sup>	% Moisture	Yield/ Moisture	Test Weight	Final Pop	% Stalk Lodging	% Root Lodging	% Relative Yield to Check Avg.	Marydel Irrigated	Georgetown Irrigated	Laurel Irrigated	Middletown Dry land	Yield Avg. Bu/A	Rank	Two Year Yield Ave. Bu/A		
<b>DeKalb</b>	<b>DKC70-27RIB (Check)</b>	<b>273.9</b>	19.1	14.4	59.0	31125.0	0.0	0.0	103.0	1	6	9	10	221.9	9			
<b>LG Seeds</b>	<b>LG66C32VT2RIB</b>	<b>266.4</b>	18.9	14.1	59.6	32000.0	0.0	0.0	100.2	2	4	5	2	238.2	3			
Local Seed Co.	LC1776 VT2P	265.5	18.8	14.2	59.8	30750.0	0.0	0.0	99.8	3	5	1	1	240.2	2			
<b>LG Seeds</b>	<b>LG5650VT2RIB</b>	<b>265.3</b>	17.8	14.9	60.7	31250.0	2.1	0.0	99.8	4	9	6	3	233.9	5			
Local Seed Co.	LC1987 VT2P	265.2	19.4	13.7	59.5	31500.0	0.4	0.0	99.7	5	3	4	5	235.4	4			
<b>Dyna-Gro</b>	<b>D58VC65 (Check)</b>	<b>258.0</b>	18.9	13.7	60.1	30375.0	0.0	0.0	97.0	6	7	3	6	231.4	6			
Seed Consultants Inc.	SCS 1188AM	257.9	19.2	13.4	59.4	28750.0	0.4	0.0	97.0	7	2	8	9	222.8	8			
Phoenix	6507A3	257.5	17.2	15.0	57.4	28375.0	1.4	0.0	96.8	8	8	7	7	226.6	7	217.3		
Seed Consultants Inc.	SCS 1168YHR	254.2	17.4	14.6	60.2	29875.0	5.4	0.0	95.6	9	1	2	4	242.8	1			
NK	NK1573-3330	242.6	17.1	14.2	58.0	28750.0	0.9	0.0	91.2	10	10	10	8	217.0	10			

<b>Check Avg.</b>	265.9	19.0	14.0	59.5	30750.0	0.0		
<b>Test Avg.</b>	260.6	18.4	14.2	59.3	30275.0	1.1		
<b>LSD (0.05)</b>	13.9	0.5	0.9	1.1	NS	3.0		
<b>% C.V.</b>	3.2	1.6	3.8	1.1	3.3	153.4		
<b>Check Avg. + LSD (0.05)</b>	279.8							

<sup>1</sup>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 9. Irrigated Corn Hybrid Performance Summary**  
**Plum Creek Farms, LLC (Sussex County) Laurel, Delaware**

Planted 4/29/2019 & Harvested September 10, Early Hybrids										Performance Ranking for				Pooled sites		Two Year Yield Ave. Bu/A
Brand	Hybrid	Yield Bu/A <sup>1</sup>	% Moisture	Yield/ Moisture	Test Weight	Final Pop	% Stalk Lodging	% Root Lodging	% Relative Yield to Check Avg.	Laurel Irrigated	Georgetown Irrigated	Marydel Irrigated	Middletown Dry land	Yield Avg. Bu/A	Rank	
DeKalb	DKC62-53RIB (Check)	<b>261.1</b>	19.0	13.7	58.8	31875.0	0.0	0.0	101.9	1	1	1	11	243.1	1	
Agventure	AV7808YHB	<b>258.2</b>	18.6	13.9	58.6	31000.0	0.0	0.0	100.7	2	6	15	3	236.4	2	
NK	NK0968-3330	<b>255.3</b>	16.9	15.1	54.9	32375.0	0.0	0.0	99.6	3	12	13	23	224.3	14	
Seed Consultants Inc.	SCS 1105AM	<b>253.9</b>	17.3	14.7	59.2	31375.0	0.0	0.0	99.1	4	5	10	5	235.7	3	
Seed Consultants Inc.	SCS 1069YHR	<b>251.9</b>	18.4	13.7	58.7	31375.0	2.0	0.0	98.3	5	9	12	4	233.8	6	
Dyna-Gro	D52VC63 (Check)	<b>251.6</b>	19.1	13.2	58.0	32625.0	0.4	0.0	98.2	6	2	4	22	233.9	5	
Local Seed Co.	LC0978 VT2PRIB	<b>250.9</b>	18.2	13.8	59.8	30000.0	0.8	0.0	97.9	7	14	11	10	228.5	11	
Local Seed Co.	LC0877 VT2PRIB	<b>247.3</b>	16.9	14.6	58.4	31500.0	0.4	0.0	96.5	8	18	18	15	221.8	16	
Seed Consultants Inc.	SCS 1087YHR	<b>247.1</b>	17.1	14.4	58.3	33000.0	0.0	0.0	96.4	9	4	3	7	235.6	4	
LG Seeds	LG5590VT2RIB	<b>245.3</b>	18.0	13.6	58.0	32625.0	0.0	0.0	95.7	10	8	5	18	230.5	9	
Agventure	AV6805AM	242.5	17.6	13.8	59.4	32375.0	9.3	0.0	94.6	11	11	9	6	229.1	10	
Agventure	AV7408AM	241.4	17.4	13.9	57.9	32625.0	0.4	0.0	94.2	12	3	2	21	232.8	7	
Armor	A0887	238.1	16.9	14.1	58.3	33125.0	0.8	0.0	92.9	13	15	14	1	228.4	12	
Agventure	AV4104YHB	237.8	17.0	14.0	59.6	30750.0	0.4	0.0	92.8	14	19	7	13	223.2	15	
Armor	A0919	237.7	17.7	13.5	60.0	32500.0	0.0	0.0	92.7	15	20	16	8	219.8	18	
NK	NK0886-3120	235.3	16.9	13.9	58.5	29125.0	1.0	0.0	91.8	16	16	22	14	216.0	20	
MorCorn	MC 3952	235.1	17.3	13.7	59.2	32125.0	0.4	0.0	91.7	17	13	6	9	226.4	13	
Armor	X8105B	233.9	17.1	13.7	59.4	31625.0	0.0	0.0	91.3	18	17	20	17	217.4	19	
Armor	A0508	231.9	17.0	13.7	59.5	32500.0	0.4	0.0	90.5	19	23	19	19	212.0	21	
LG Seeds	LG60C33VT2PRO	231.1	17.3	13.3	58.4	32000.0	0.0	0.0	90.1	20	10	17	16	221.6	17	
Agventure	AV4509VYHR	229.7	17.7	13.0	59.8	32750.0	1.2	0.0	89.6	21	7	8	2	230.8	8	
Local Seed Co.	LC0657 SXRIB	219.7	16.8	13.1	59.1	31500.0	0.8	0.0	85.7	22	21	23	12	209.9	22	
Agventure	AV5799AM	219.2	16.9	13.0	59.6	31625.0	1.2	0.0	85.5	23	22	21	20	208.3	23	

<b>Check Avg.</b>	256.3	19.0	13.5	58.4	32250.0	0.2
<b>Test Avg.</b>	241.6	17.5	13.8	58.8	31842.0	0.8
<b>LSD (0.05)</b>	18.4	0.7	0.9	0.5	NS	2.1
<b>% C.V.</b>	4.8	2.1	4.0	0.6	5.6	93.8
<b>Check Avg. + LSD (0.05)</b>	274.7					

<sup>1</sup>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 4/29/2019 & Harvested September 10, Early-Medium Hybrids										Performance Ranking for				Pooled sites		Two Year Yield Ave. Bu/A
Brand	Hybrid	Yield Bu/A <sup>1</sup>	% Moisture	Yield/ Moisture	Test Weight	Final Pop	% Stalk Lodging	% Root Lodging	% Relative Yield to Check Avg.	Laurel Irrigated	Georgetown Irrigated	Marydel Irrigated	Middletown Dry land	Yield Avg. Bu/A	Rank	
Seed Consultants Inc.	SCS 1158YHR	<b>270.9</b>	20.0	13.6	57.2	32375.0	0.0	0.0	102.9	1	6	4	9	243.3	2	
LG Seeds	LG64C30TRCRIB	<b>270.1</b>	19.8	13.6	59.5	31125.0	0.8	0.0	102.6	2	5	10	17	239.0	7	
Dyna-Gro	D54VC52 (Check)	<b>266.0</b>	20.0	13.3	58.2	31125.0	0.0	0.0	101.0	3	8	17	19	232.9	15	
LG Seeds	LG5643VT2RIB	<b>265.4</b>	19.7	13.5	57.7	33000.0	0.8	0.0	100.8	4	1	3	1	249.2	1	
Armor	A1299	<b>261.6</b>	18.7	14.0	58.6	32250.0	0.4	0.0	99.3	5	9	7	5	241.4	5	
Local Seed Co.	ZS1487	<b>260.7</b>	18.1	14.4	56.3	30375.0	0.0	0.0	99.0	6	18	19	15	227.2	18	214.4
DeKalb	DKC65-95RIB (Check)	<b>260.7</b>	19.9	13.1	59.8	32875.0	0.8	0.0	99.0	7	15	5	14	236.5	9	
Local Seed Co.	LC1289 VT2P	<b>259.8</b>	19.8	13.1	58.4	32750.0	1.5	0.0	98.7	8	7	9	18	235.2	13	217.2
Agventure	AV8714VYHR	<b>259.6</b>	19.6	13.3	58.9	31750.0	0.4	0.0	98.6	9	12	1	8	241.8	3	221.8
Armor	A1447	<b>257.6</b>	19.9	13.0	57.3	32500.0	0.4	0.0	97.8	10	2	13	4	240.3	6	222.3
Armor	A1118	<b>257.5</b>	19.1	13.5	58.3	32000.0	0.0	0.0	97.8	11	16	16	2	236.2	11	218.8
Local Seed Co.	LC1577 VT2PRIB	<b>256.1</b>	19.8	13.0	59.6	30875.0	0.0	0.0	97.2	12	11	11	16	234.2	14	
Local Seed Co.	LC1586 TC	254.8	20.2	12.6	59.0	32250.0	0.0	0.0	96.8	13	14	18	13	230.2	17	
MorCorn	MC 4319	254.4	20.1	12.7	58.4	31500.0	0.8	0.0	96.6	14	13	6	7	238.0	8	221.1
MorCorn	MC 4255	252.3	19.3	13.1	58.3	32625.0	0.0	0.0	95.8	15	10	8	12	235.6	12	
Local Seed Co.	LC1488 VT2PRIB	249.3	19.3	13.0	58.5	30875.0	0.4	0.0	94.7	16	3	12	10	236.4	10	
Seed Consultants Inc.	SCS 1139AM	247.7	19.7	12.6	59.4	33000.0	0.4	0.0	94.1	17	17	15	6	231.5	16	
LG Seeds	LG62C02VT2RIB	247.2	18.5	13.4	58.2	30375.0	1.0	0.0	93.9	18	4	2	3	241.6	4	
NK	NK1205-3120	223.9	17.0	13.2	58.3	32500.0	1.6	0.0	85.0	19	19	14	11	218.3	19	
	<b>Check Avg.</b>	263.3	19.9	13.2	59.0	32000.0	0.4									
	<b>Test Avg.</b>	256.6	19.4	13.2	58.4	31901.0	0.5									
	<b>LSD (0.05)</b>	19.6	0.7	0.9	1.4	NS	NS									
	<b>% C.V.</b>	4.8	2.1	4.3	1.2	4.6	126.3									
	<b>Check Avg. + LSD (0.05)</b>	282.9														

<sup>1</sup>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 11. Irrigated Corn Hybrid Performance Summary**  
**Plum Creek Farms, LLC (Sussex County) Laurel, Delaware**

Planted 4/29/2019 & Harvested September 10, Medium Hybrids										Performance Ranking for				Pooled sites		Two Year Yield Ave. Bu/A
Brand	Hybrid	Yield Bu/A <sup>1</sup>	% Moisture	Yield/Moisture	Test Weight	Final Pop	% Stalk Lodging	% Root Lodging	% Relative Yield to Check Avg.	Laurel Irrigated	Georgetown Irrigated	Marydel Irrigated	Middletown Dry land	Yield Avg. Bu/A	Rank	
Local Seed Co.	<b>LC1776 VT2P</b>	<b>277.1</b>	20.5	13.5	58.0	32750.0	0.4	0.0	106.9	1	5	3	1	240.2	2	
Seed Consultants Inc.	<b>SCS 1168YHR</b>	<b>269.1</b>	20.2	13.3	57.6	30750.0	6.3	0.0	103.8	2	1	9	4	242.8	1	
Dyna-Gro	<b>D58VC65 (Check)</b>	<b>267.6</b>	20.7	13.0	58.3	32375.0	0.0	0.0	103.2	3	7	6	6	231.4	6	
Local Seed Co.	<b>LC1987 VT2P</b>	<b>265.6</b>	20.6	12.9	58.1	33000.0	4.2	0.0	102.4	4	3	5	5	235.4	4	
LG Seeds	<b>LG66C32VT2RIB</b>	<b>264.5</b>	20.4	13.0	58.0	31125.0	0.0	0.0	102.0	5	4	2	2	238.2	3	
LG Seeds	LG5650VT2RIB	260.6	20.1	13.0	59.9	32000.0	0.0	0.0	100.5	6	9	4	3	233.9	5	
Phoenix	6507A3	256.0	18.9	13.6	55.3	30500.0	8.8	0.0	98.7	7	8	8	7	226.6	7	217.3
Seed Consultants Inc.	SCS 1188AM	252.1	20.4	12.4	58.1	29875.0	0.0	0.0	97.2	8	2	7	9	222.8	8	
DeKalb	<b>DKC70-27RIB (Check)</b>	<b>250.9</b>	20.4	12.3	57.6	32125.0	0.4	0.0	96.8	9	6	1	10	221.9	9	
NK	NK1573-3330	248.0	19.3	12.9	57.0	31375.0	1.1	0.0	95.6	10	10	10	8	217.0	10	
	<b>Check Avg.</b>	259.3	20.5	12.6	57.9	32250.0	0.2									
	<b>Test Avg.</b>	261.1	20.1	13.0	57.8	31587.0	2.1									
	<b>LSD (0.05)</b>	13.2	0.4	0.7	0.6	NS	5.8									
	<b>% C.V.</b>	3.1	1.1	3.4	0.6	5.6	89.3									
	<b>Check Avg. + LSD (0.05)</b>	272.5														

<sup>1</sup>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**

**Davis Farms (Sussex County)**

Planted 5/9/2019 & Harvested September 19, Early Hybrids																		
Brand	Hybrid	Yield Bu/A <sup>1</sup>	% Moisture	Yield/ Moisture	Test Weight	Final Pop	% Stalk Lodging	% Root Lodging	% Relative Yield to Check Avg.	Georgetown, Delaware				Performance Ranking for		Pooled sites		Two Year Yield Ave. Bu/A
										Georgetown Irrigated	Laurel Irrigated	Marydel Irrigated	Middletown Dry land	Yield Avg. Bu/A	Rank			
DeKalb	DKC62-53RIB (Check)	<b>242.8</b>	20.2	12.0	55.2	31875.0	0.4	0.0	100.4	1	1	1	11	243.1	1			
Dyna-Gro	D52VC63 (Check)	<b>240.9</b>	20.8	11.6	55.0	31125.0	0.8	0.0	99.6	2	6	4	22	233.9	5			
Agventure	AV7408AM	<b>238.7</b>	19.0	12.6	55.6	30750.0	0.4	0.0	98.7	3	12	2	21	232.8	7			
Seed Consultants Inc.	SCS 1087YHR	<b>237.5</b>	19.5	12.2	55.8	31125.0	0.4	0.0	98.2	4	9	3	7	235.6	4			
Seed Consultants Inc.	SCS 1105AM	<b>235.9</b>	19.8	11.9	56.8	31500.0	0.0	0.0	97.5	5	4	10	5	235.7	3			
Agventure	AV7808YHB	<b>234.2</b>	20.2	11.6	56.4	29875.0	0.0	0.0	96.8	6	2	15	3	236.4	2	223.8		
Agventure	AV4509VYHR	<b>230.3</b>	19.1	12.1	57.5	30625.0	2.4	0.0	95.2	7	21	8	2	230.8	8			
LG Seeds	LG5590VT2RIB	<b>229.8</b>	19.1	12.1	55.2	30125.0	0.0	0.0	95.0	8	10	5	18	230.5	9			
Seed Consultants Inc.	SCS 1069YHR	225.6	19.3	11.7	55.6	31125.0	0.9	0.0	93.3	9	5	12	4	233.8	6			
LG Seeds	LG60C33VT2PRO	225.6	19.8	11.4	55.2	31000.0	0.0	0.0	93.2	10	20	17	16	221.6	17			
Agventure	AV6805AM	222.8	19.4	11.5	57.5	30125.0	1.3	0.0	92.1	11	11	9	6	229.1	10			
NK	NK0968-3330	218.8	18.1	12.1	53.7	29625.0	0.4	0.0	90.4	12	3	13	23	224.3	14			
MorCorn	MC 3952	216.3	18.0	12.1	57.0	31125.0	0.0	0.0	89.4	13	17	6	9	226.4	13			
Local Seed Co.	LC0978 VT2PRIB	216.0	19.1	11.3	57.1	31500.0	1.2	0.0	89.3	14	7	11	10	228.5	11			
Armor	A0887	215.1	17.9	12.1	55.5	31000.0	0.0	0.0	88.9	15	13	14	1	228.4	12			
NK	NK0886-3120	213.8	17.8	12.1	57.0	30000.0	1.7	0.0	88.4	16	16	22	14	216.0	20			
Armor	X8105B	211.6	17.9	11.8	56.7	29500.0	0.0	0.0	87.5	17	18	20	17	217.4	19			
Local Seed Co.	LC0877 VT2PRIB	210.2	17.8	11.9	55.2	29875.0	0.0	0.0	86.9	18	8	18	15	221.8	16	206.6		
Agventure	AV4104YHB	205.6	18.1	11.4	57.4	28875.0	0.0	0.0	85.0	19	14	7	13	223.2	15			
Armor	A0919	203.9	19.0	10.8	57.7	31000.0	2.0	0.0	84.3	20	15	16	8	219.8	18			
Local Seed Co.	LC0657 SSXRIB	203.5	18.5	11.0	57.3	30250.0	0.4	0.0	84.1	21	22	23	12	209.9	22			
Agventure	AV5799AM	200.5	17.7	11.3	57.9	29250.0	0.9	0.0	82.9	22	23	21	20	208.3	23			
Armor	A0508	188.9	17.7	10.7	58.5	29125.0	0.4	0.0	78.1	23	19	19	19	212.0	21	192.8		

<b>Check Avg.</b>	241.9	20.5	11.8	55.1	31500.0	0.6	
<b>Test Avg.</b>	220.4	18.8	11.7	56.4	30451.0	0.6	
<b>LSD (0.05)</b>	13.5	0.7	0.9	0.8	NS	NS	
<b>% C.V.</b>	4.0	2.4	5.0	0.9	5.8	96.0	
<b>Check Avg. + LSD (0.05)</b>	255.4						

<sup>1</sup>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 13. Irrigated Corn Hybrid Performance Summary  
Davis Farms (Sussex County)**

Planted 5/9/2019 & Harvested September 19, Early-Medium Hybrids																
Brand	Hybrid	Yield Bu/A <sup>1</sup>	% Moisture	Yield/ Moisture	Test Weight	Final Pop	% Stalk Lodging	% Root Lodging	% Relative Yield to Check Avg.	Performance Ranking for				Pooled sites		Two Year Yield Ave. Bu/A
										Georgetown Irrigated	Laurel Irrigated	Marydel Irrigated	Middletown Dry land	Yield Avg. Bu/A	Rank	
LG Seeds	LG5643VT2RIB	<b>240.9</b>	20.4	11.8	56.3	31000.0	0.8	0.0	104.1	1	4	3	1	249.2	1	
Armor	A1447	<b>240.3</b>	21.0	11.5	57.8	30750.0	0.4	0.0	103.8	2	10	13	4	240.3	6	222.3
Local Seed Co.	LC1488 VT2PRIB	<b>239.8</b>	20.0	12.0	56.7	30625.0	0.0	0.0	103.6	3	16	12	10	236.4	10	
LG Seeds	LG62C02VT2RIB	<b>239.6</b>	20.2	11.9	56.1	31250.0	0.0	0.0	103.5	4	18	2	3	241.6	4	
LG Seeds	LG64C30TRCRIB	<b>237.4</b>	20.8	11.4	56.9	26250.0	1.2	0.0	102.6	5	2	10	17	239.0	7	
Seed Consultants Inc.	SCS 1158YHR	<b>236.8</b>	20.8	11.4	55.8	30250.0	0.0	0.0	102.3	6	1	4	9	243.3	2	
Local Seed Co.	LC1289 VT2P	<b>236.4</b>	20.5	11.5	55.8	30750.0	0.0	0.0	102.2	7	8	9	18	235.2	13	217.2
Dyna-Gro	D54VC52 (Check)	<b>234.9</b>	21.8	10.8	55.7	25500.0	1.8	0.0	101.5	8	3	17	19	232.9	15	
Armor	A1299	<b>234.3</b>	21.0	11.2	54.9	28625.0	0.0	0.0	101.3	9	5	7	5	241.4	5	
MorCorn	MC 4255	<b>233.6</b>	20.2	11.6	56.4	31375.0	0.0	0.0	101.0	10	15	8	12	235.6	12	
Local Seed Co.	LC1577 VT2PRIB	<b>231.7</b>	20.7	11.2	58.4	29000.0	0.0	0.0	100.1	11	12	11	16	234.2	14	
Agventure	AV8714VYHR	<b>231.0</b>	20.9	11.1	56.0	28750.0	0.0	0.0	99.8	12	9	1	8	241.8	3	221.8
MorCorn	MC 4319	<b>229.2</b>	21.5	10.7	56.0	29375.0	0.0	0.0	99.1	13	14	6	7	238.0	8	221.1
Local Seed Co.	LC1586 TC	<b>228.3</b>	21.0	10.9	57.0	27375.0	1.6	0.0	98.7	14	13	18	13	230.2	17	
DeKalb	DKC65-95RIB (Check)	<b>227.8</b>	20.6	11.1	58.8	30000.0	0.0	0.0	98.4	15	7	5	14	236.5	9	
Armor	A1118	220.8	20.3	10.9	55.8	31875.0	0.0	0.0	95.4	16	11	16	2	236.2	11	218.8
Seed Consultants Inc.	SCS 1139AM	217.2	20.6	10.6	58.6	27375.0	0.0	0.0	93.9	17	17	15	6	231.5	16	
Local Seed Co.	ZS1487	215.8	18.6	11.6	54.8	31375.0	0.4	0.0	93.2	18	6	19	15	227.2	18	214.4
NK	NK1205-3120	196.7	18.4	10.7	56.8	31375.0	2.8	0.0	85.0	19	19	14	11	218.3	19	

**Check Avg.** 231.4 21.2 11.0 57.3 27750.0 0.9  
**Test Avg.** 230.1 20.5 11.2 56.6 29625.0 0.5  
**LSD (0.05)** 17.0 0.5 0.8 1.0 3844.0 NS  
**% C.V.** 4.9 1.6 5.0 1.1 7.7 167.6  
**Check Avg. + LSD (0.05)** 248.4

<sup>1</sup>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 14. Irrigated Corn Hybrid Performance Summary  
Davis Farms (Sussex County)**

Planted 5/9/2019 & Harvested September 19, Medium Hybrids										Georgetown, Delaware				Performance Ranking for		Pooled sites		
Brand	Hybrid	Yield Bu/A <sup>1</sup>	% Moisture	Yield/Moisture	Test Weight	Final Pop	% Stalk Lodging	% Root Lodging	% Relative Yield to Check Avg.	Georgetown Irrigated	Laurel Irrigated	Marydel Irrigated	Middletown Dry land	Yield Avg. Bu/A	Rank	Two Year Yield Ave. Bu/A		
Seed Consultants Inc.	<b>SCS 1168YHR</b>	<b>267.9</b>	21.1	12.7	56.1	31875.0	0.0	0.0	115.5	1	2	9	4	242.8	1			
Seed Consultants Inc.	SCS 1188AM	239.1	21.6	11.1	55.9	28375.0	0.4	0.0	103.1	2	8	7	9	222.8	8			
Local Seed Co.	LC1987 VT2P	238.1	21.9	10.9	57.0	31125.0	0.8	0.0	102.7	3	4	5	5	235.4	4			
LG Seeds	LG66C32VT2RIB	237.6	21.6	11.0	56.0	29250.0	0.0	0.0	102.5	4	5	2	2	238.2	3			
Local Seed Co.	LC1776 VT2P	233.3	21.8	10.7	55.6	30250.0	1.3	0.0	100.6	5	1	3	1	240.2	2			
DeKalb	<b>DKC70-27RIB (Check)</b>	<b>232.3</b>	<b>23.2</b>	<b>10.0</b>	<b>54.3</b>	<b>31625.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100.2</b>	<b>6</b>	<b>9</b>	<b>1</b>	<b>10</b>	<b>221.9</b>	<b>9</b>			
Dyna-Gro	<b>D58VC65 (Check)</b>	<b>231.6</b>	<b>21.2</b>	<b>10.9</b>	<b>57.1</b>	<b>30375.0</b>	<b>0.4</b>	<b>0.0</b>	<b>99.8</b>	<b>7</b>	<b>3</b>	<b>6</b>	<b>6</b>	<b>231.4</b>	<b>6</b>			
Phoenix	6507A3	230.8	20.6	11.2	54.0	27625.0	4.0	0.0	99.5	8	7	8	7	226.6	7	217.3		
LG Seeds	LG5650VT2RIB	226.7	20.6	11.0	59.0	27000.0	0.5	0.0	97.7	9	6	4	3	233.9	5			
NK	NK1573-3330	220.2	19.8	11.1	55.8	28000.0	2.1	0.0	95.0	10	10	10	8	217.0	10			
	<b>Check Avg.</b>	231.9	22.2	10.5	55.7	31000.0	0.2											
	<b>Test Avg.</b>	235.7	21.3	11.1	56.1	29550.0	0.9											
	<b>LSD (0.05)</b>	19.9	0.9	0.8	1.2	NS	1.8											
	<b>% C.V.</b>	5.4	2.4	4.7	1.4	10.3	142.3											
	<b>Check Avg. + LSD (0.05)</b>	251.8																

<sup>1</sup>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