

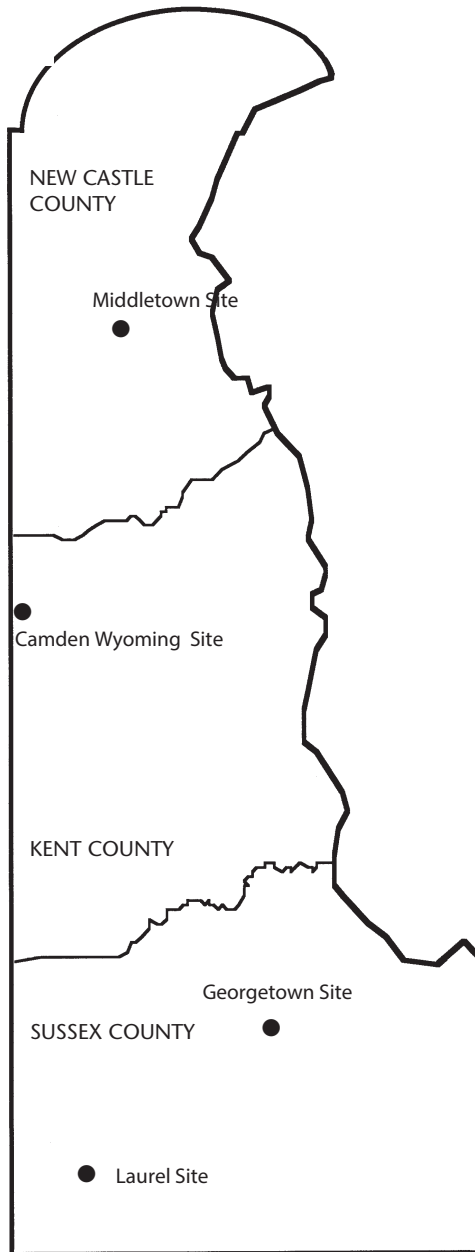
DELAWARE HYBRID FIELD CORN PERFORMANCE TRIALS

2022



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

Test plot locations



October 2022

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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 ($(\text{Max. Temp} + \text{Min. Temp})/2 - 50$). 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

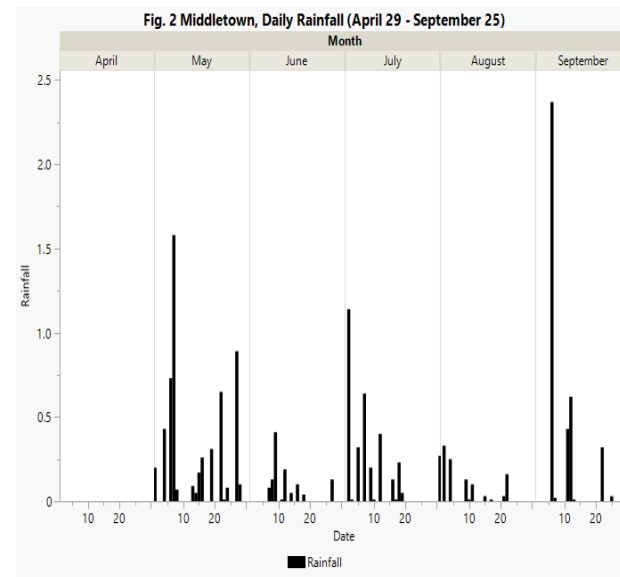
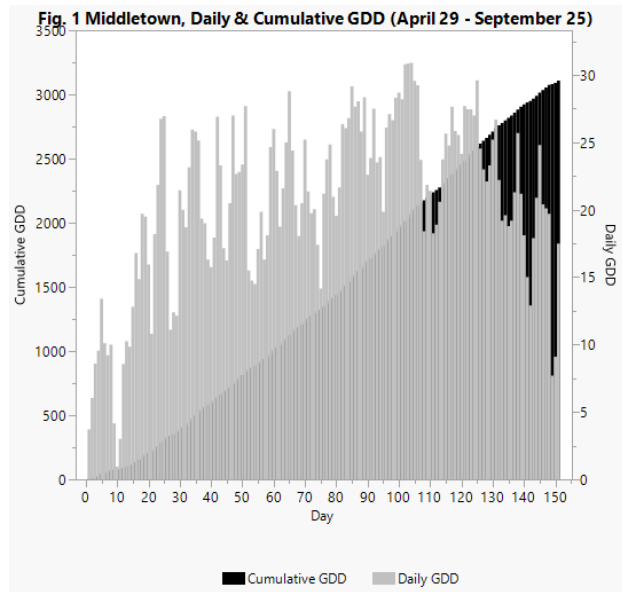
The 2022 growing season was characterized by low temperature and adequate moisture conditions during planting. We had an extended dry period from late July during the flowering and ear development period and this had affected the yield performance for the Middletown dryland location. The Middletown dryland 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

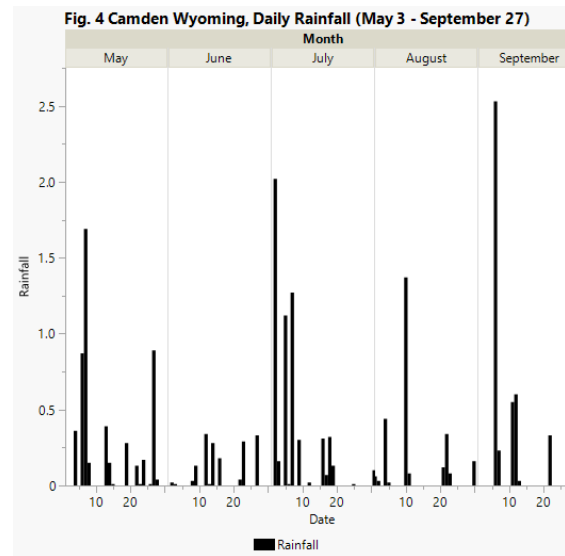
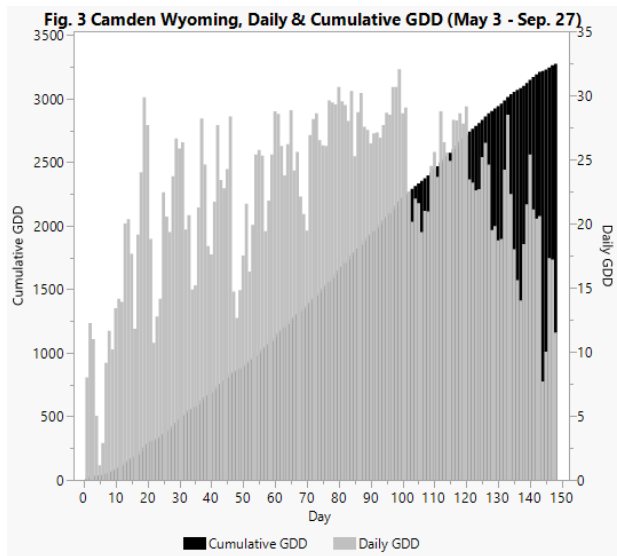
temperature is above the minimum 50 °F soil temperature required for corn germination. A Growing Degree Days (GDD) of 90 to 120 is required for corn germination. A 75.7 GDD was accumulated in the ten days after planting (April 28). Even though this location accumulated 75.7 GDD in the first ten days 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.



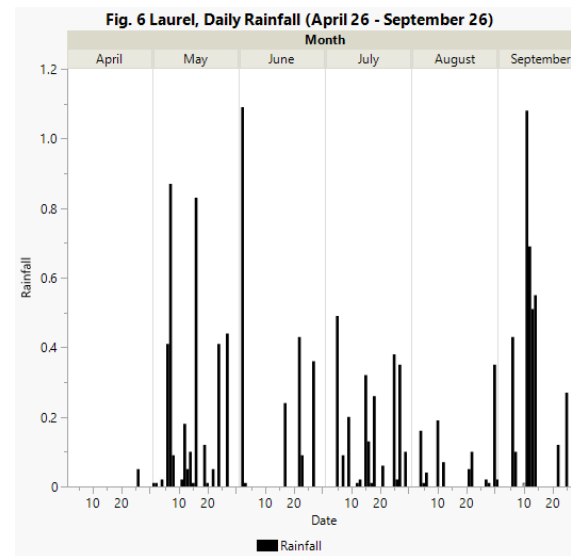
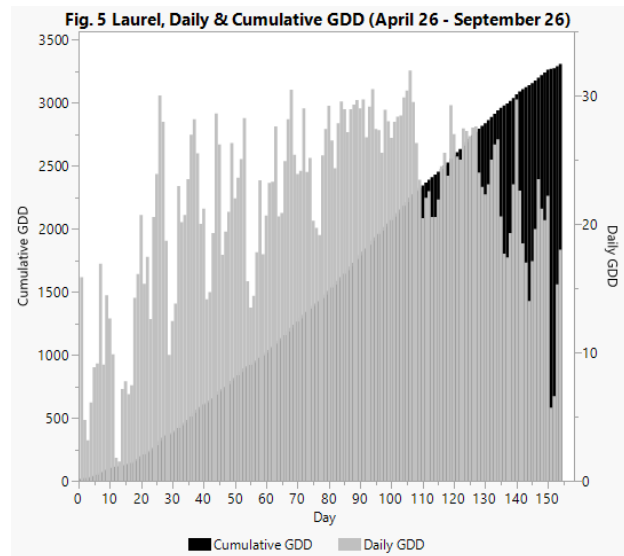
Yields at the Middletown dryland location averaged 172, 155 and 156 bu/A for the early, early-medium and medium maturity groups, respectively, compared to the check means of 175, 161 and 149 bu/A, respectively (Tables 3, 4 and 5). There were no significant differences among hybrids for yield, grain moisture 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).



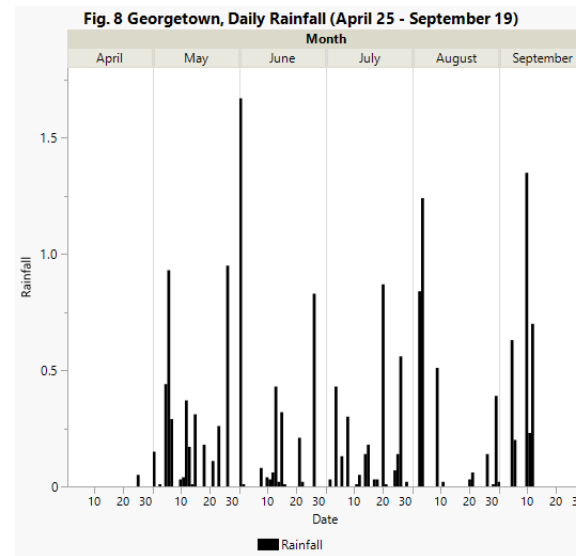
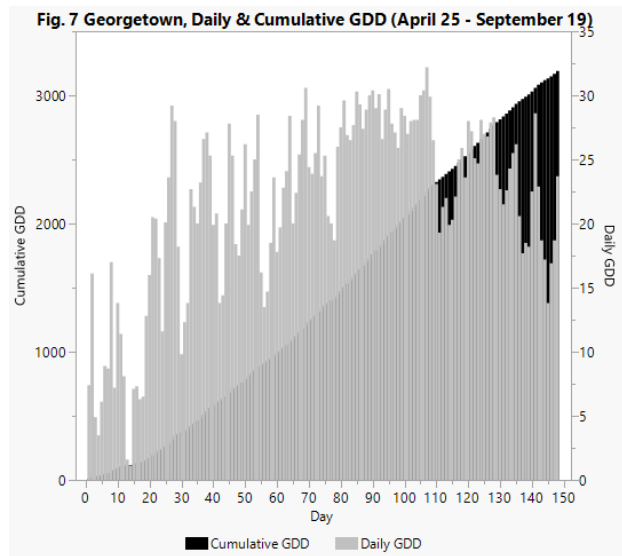
Yields at the Camden Wyoming location averaged 256, 273 and 266 bu/A for the early, early-medium and medium maturity groups, respectively, compared to the check means of 264, 268 and 266 bu/A, respectively (Tables 6, 7 and 8). There were significant differences among hybrids for yield, grain moisture, 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

	Emerson Farms – Middletown (Dryland)	Thomas Family Farms – Camden Wyoming (Irrigated)	Plum Creek Farms, LLC – Laurel (Irrigated)	Carvel REC - Georgetown (Irrigated)
Number of entries	48	48	48	48
Number of maturities	3	3	3	3
Population plants/A	26,000	33,000	33,000	33,000
Row length	17.5'	17.5'	17.5'	17.5'
Number of rows harvested	Center two rows	Center two rows	Center two rows	Center two rows
Number of replications	4	4	4	4
Planting date	April 28	May 3	April 26	April 25
Harvest date	September 26	September 28	September 27	September 20
Soil type	Matapeake silt loam	Sandy loam	Sandy loam	Rosedale loamy sand
Previous crop	Soybean	Corn	Pickle	Soybean
Cover crop	None	Barley	Rye	None
Tillage practices	Ripped	Ripped, field cultivator	No till	Ripped, disked, field cultivator
Cultivation	None	None	None	None
Fertilization	15 gallons/A of 20-10-0-1s (N-P ₂ O ₅ -K ₂ O-s) starter 2"x2" (32 lb N & 27 lb P). At V4 –V5 stage side-dressed with 70 gallons/A of 27-0-0-6s (203 lb N).	3 tons/A of chicken manure. 15 gallons/A of 20-10-0-1s (N-P ₂ O ₅ K ₂ O) starter 2"x2" (32 lb N & 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 N ₂ (24-0-0-3).	15 gallons/A of 20-10-0-1s (N-P ₂ O ₅ K ₂ O) starter 2"x2" (32 lb N & 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.	2 tons /A of chicken manure and 350 lb of 7-0-40. 15 gallons/A of 20-10-0-1s (N-P ₂ O ₅ -K ₂ O) starter 2"x2" (32 lb N & 27 lb P). At V4 –V5 stage side-dressed with 70 gallons/A of 27-0-0-6s (203 lb N).
Herbicide	Lexar 3.5 qt/A, simazine 1 qt/A and roundup 1 qt/A pre-emergence	Lexar 3.5 qt/A and simazine 1 qt/A pre-emergence. Atrazine 1 qt/A and impact 0.75 oz/A post-emergence	Lexar 3 qt/A, simazine 1 qt/A and roundup 1 qt/A pre-emergence.	Lexar 3 qt/A and simazine 1 qt/A pre-emrgence.
Insecticide	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
Irrigation	None	Center pivot	Center pivot	Lateral move

Delaware corn hybrid variety performance trial entries

Company/Brand	Hybrid	Trait	Seed treatment	RMD	Maturity Group
Syngenta/NK	NK1082-5222A	Agrisure 5222	Avicta Complete Corn	110	Early
Seed Consultants	SC1053AM	AM	LumiGEN	105	Early
Seed Consultants	SC1071AM	AM	LumiGEN	107	Early
Seed Consultants	SC1093AM	AM	LumiGEN	109	Early
Augusta Seed	A1359	VT2P	C250	109	Early
Mid-Atlantic Seeds	MA8091	VT2PRIB	C250	110	Early
Mid-Atlantic Seeds	MA8108	VT2PRIB	C250	110	Early
Dyna-Gro	D50VC09	VT Double Pro	Acceleron P/V 500	110	Early
Revere Seed	Revere 0707 DGVT2P	DGVT2PRIB	Radius 500	107	Early
Revere Seed	Revere 0918 VT2P	VT2PRIB	Radius 500	109	Early
Invision	FS 6017V RIB	VT2P	Acceleron P/V 500	110	Early
East Coast/AgVenture	AV5107AM	YGCB, HX1, LL, RR2		107	Early
East Coast/AgVenture	AV4509AML	AVBL, YGCB, HX1, LL, RR2		109	Early
East Coast/AgVenture	AV6010AM	YGCB, HX1, LL, RR2		110	Early
East Coast/AgVenture	AV9610AM	YGCB, HX1, LL, RR2		110	Early
Bayer/DeKalb	DKC62-53RIB (Check)	VT DoublePro		112	Early
Bayer/DeKalb	DKC61-41RIB (Check)	VT Double Pro		111	Early
Seed Consultants	SC1112AM	AM	LumiGEN	111	Early-Medium
Seed Consultants	SC1122Q	Qrome	LumiGEN	112	Early-Medium
Augusta Seed	1964	3110GT	C250	114	Early-Medium
Mid-Atlantic Seeds	MA8110	TRE	C250	111	Early-Medium
Mid-Atlantic Seeds	MA8136	DGVT2PRIB	C250	113	Early-Medium
Mid-Atlantic Seeds	MA5124	VIP3110	C250	112	Early-Medium
Mid-Atlantic Seeds	MA8141	DGVT2PRIB	C250	114	Early-Medium
Mid-Atlantic Seeds	MA8145	VT2PRIB	C250	114	Early-Medium
Dyna-Gro	D52VC63	VT Double Pro	Acceleron P/V 500	112	Early-Medium
Dyna-Gro	D53TC23	Trecepta	Acceleron P/V 500	112	Early-Medium
Dyna-Gro	D54VC14	VT Double Pro	Acceleron P/V 500	114	Early-Medium

Dyna-Gro	D54VC34	VT Double Pro	Acceleron P/V 500	114	Early-Medium
Revere Seed	Revere 1307 TCRIB	Trecepta	Radius 500	113	Early-Medium
Revere Seed	Rivere 1398 VT2PRIB	VT2P	Radius 500	113	Early-Medium
MorCorn	MC4161	VT2PDG	P1250	111	Early-Medium
MorCorn	MC4311	Trecepta	P1250	113	Early-Medium
Invision	FS 6306T RIB	Trecepta	Acceleron P/V 500	113	Early-Medium
Invision	FS 6424V RIB	VT2P	Acceleron P/V 500	114	Early-Medium
East Coast/AgVenture	AV4313AM	YGCB, HX1, LL, RR2	Poncho 1250	113	Early-Medium
East Coast/AgVenture	AV7913AM	YGCB, HX1, LL, RR2	Poncho 1250	113	Early-Medium
Bayer/DeKalb	DKC64-65RIB (Check)	VT DoublePro		114	Early-Medium
Bayer/DeKalb	DKC65-95RIB (Check)	VT DoublePro		115	Early-Medium
Syngenta/NK	NK1677-3110	Agrisure-3110	Avicta Complete Corn + Vibrance	116	Medium
Syngenta/NK	NK1701-3220	Agrisure-3220	Avicta Complete Corn + Vibrance	117	Medium
Syngenta/NK	NK1748-3110	Agrisure-3110	Avicta Complete Corn + Vibrance	117	Medium
Seed Consultants	SC1170AM	AM	LumiGEN	117	Medium
Seed Consultants	SC1183AM	AM	LumiGEN	118	Medium
Augusta Seed	A1465	VT2P	C250	115	Medium
Mid-Atlantic Seeds	MA5155	VIP3110	C250	115	Medium
Dyna-Gro	D55VC80	VT Double Pro	Acceleron P/V 500	115	Medium
MorCorn	MC4527	VT2P	P1250	115	Medium
MorCorn	MC4725	VT2P	P1250	117	Medium
Invision	FS 6595V RIB	VT2P	Acceleron PVv 500	115	Medium
AgVenture	AV9916AM	YGCB, HX1, LL, RR2		116	Medium
AgVenture	AV3917AM	YGCB, HX1, LL, RR2		117	Medium
Bayer/DeKalb	DKC70-27RIB (Check)	VT DoublePro		120	Medium
Dyna-Gro	D58VC65 (Check)	VT Double Pro		118	Medium

Trait	Primary insect targets + Herbicide tolerance
Agrisure 5122	Black cutworm, corn earworm, European corn borer, fall armyworm, stalk borer, sugarcane borer, Southwestern corn borer and corn rootworm
Agrisure 5222	Black cutworm, corn earworm, European corn borer, fall armyworm, stalk borer, sugarcane borer, Southwestern corn borer, true armyworm, Western bean cutworm and corn rootworm
Agrisure Viptera 3110	Black cutworm, corn earworm, European corn borer, fall armyworm, stalk borer, sugarcane borer, Southwestern corn borer, true armyworm, Western bean cutworm, Glyphosate roundup ready 2 & Liberty link
Agrisure Duracade 5122 EZ Refuge DCEZ	Black cutworm, corn earworm, European corn borer, fall armyworm, root worm, Southwestern corn borer, true armyworm, corn rootworm, Glyphosate roundup
AM/LL/RR	Black cutworm, corn earworm, European corn borer, fall armyworm, stalk borer, sugarcane borer, and Southwestern corn borer; Liberty Link -glufosinate and Roundup Ready
DGV2P	Contains double mode of action protection against corn earworm and other above-ground pests, including European corn borers, Southwestern corn borers and fall armyworm and DroughtGard
GT3VIP	Corn borer, corn rootworm and Glyphosate resistance
Q/LL/RR	Above and below ground insect protection for European corn borer, fall armyworm, Western bean cutworm and Western corn rootworm; Liberty Link -glufosinate and Roundup Ready.
Qrome	European corn borer, fall armyworm, Western bean cutworm and Western corn rootworm.
SmartStax	Corn earworm, European corn borer, black cutworm, Southwestern corn borer and fall armyworm
STX RIB	Black cutworm, corn earworm, European corn borer, fall armyworm, stalk borer, sugarcane borer and Southwestern corn borer
Trecepta	European and Southwestern corn borers, fall armyworm, Western bean cutworm, black cutworm and corn earworm
VT2PRO	Contains double mode of action protection against corn earworm and other above-ground pests, including European corn borers, Southwestern corn borers and fall armyworm.
YGCB, HX1,LL,RR2	(Optimum® Intrasect®) - Contains the YieldGard® Corn Borer gene and Herculex® I gene for resistance to corn borer. Liberty Link -glufosinate and Roundup Ready 2-Glyphosate

Seed company contact

Company	Address	Phone	Web
AgVenture	7300 NW 62nd Ave Johnston, IA 50131	515-535-0800	www.agventure.com
Dyna-Gro Seed	3005 Rocky Mountain Ave. Loveland, CO 80538	716-912-5495	www.dynagro.com
East Coast Seed	17741 Davis Rd Georgetown, DE 19947	302-856-7018	www.eastcoastseed.com
Mid-Atlantic Seeds	204 St. Charles Way #163E York, PA 17402	717-852-8894	www.midatlanticseeds.com
Growmark	701 Towanda Ave. Bloomington, IL 61701	315-407-3558	www.growmarkfs.com
Revere Seed	2940 Reach Rd Williamsport, PA 17701	570-753-5503	www.revereseed.com
MorCorn	1725 Windward Concourse Suite 410 Alpharetta, GA 30005	478-957-9865	www.morcorn.com
Augusta Seed	923 Lee Hwy Verona, VA 24482	540-886-6055	www.augustaseed.com
Seed Consultants	648 Miami trace Road SW, Washington Court House, OH 43160	740-837-0364	www.seedconsultants.com
Syngenta	4013 Fairmount Pike, Signal Mountain, TN 37377	717-951-2730	www.syngenta-us.com

Table 2. Growing degree day (GDD) and rainfall at or nearest test locations for the 2022 Delaware corn hybrid performance test

Location	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall	Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall
Townsend	April	28	1	3.7	3.7	0	Townsend	June	1	35	25.8	499.1	0
Townsend	April	29	2	6.1	9.8	0	Townsend	June	2	36	25.2	524.3	0
Townsend	April	30	3	8.6	18.4	0	Townsend	June	3	37	19.4	543.6	0
Townsend	May	1	4	9.6	27.9	0.2	Townsend	June	4	38	19.0	562.6	0
Townsend	May	2	5	13.4	41.3	0	Townsend	June	5	39	16.3	578.9	0
Townsend	May	3	6	10.1	51.4	0	Townsend	June	6	40	15.8	594.7	0
Townsend	May	4	7	9.2	60.6	0.43	Townsend	June	7	41	18.0	612.6	0.08
Townsend	May	5	8	10.0	70.6	0	Townsend	June	8	42	26.9	639.5	0.13
Townsend	May	6	9	4.2	74.8	0.73	Townsend	June	9	43	23.3	662.8	0.41
Townsend	May	7	10	1.0	75.7	1.58	Townsend	June	10	44	17.2	680.0	0
Townsend	May	8	11	3.0	78.7	0.07	Townsend	June	11	45	16.3	696.2	0.01
Townsend	May	9	12	8.6	87.3	0	Townsend	June	12	46	20.5	716.7	0.19
Townsend	May	10	13	10.3	97.5	0	Townsend	June	13	47	27.0	743.7	0
Townsend	May	11	14	9.9	107.4	0	Townsend	June	14	48	22.7	766.4	0.05
Townsend	May	12	15	12.8	120.2	0	Townsend	June	15	49	22.8	789.2	0
Townsend	May	13	16	16.8	137.0	0.09	Townsend	June	16	50	23.4	812.5	0.1
Townsend	May	14	17	14.9	151.8	0.05	Townsend	June	17	51	27.7	840.2	0
Townsend	May	15	18	19.7	171.5	0.17	Townsend	June	18	52	15.5	855.7	0.04
Townsend	May	16	19	19.5	191.0	0.26	Townsend	June	19	53	14.8	870.5	0
Townsend	May	17	20	16.0	207.0	0	Townsend	June	20	54	14.5	885.0	0
Townsend	May	18	21	10.8	217.8	0	Townsend	June	21	55	17.1	902.1	0
Townsend	May	19	22	18.2	236.0	0.31	Townsend	June	22	56	19.9	921.9	0
Townsend	May	20	23	21.9	257.8	0	Townsend	June	23	57	16.3	938.2	
Townsend	May	21	24	26.8	284.6	0	Townsend	June	24	58	18.1	956.3	0
Townsend	May	22	25	27.0	311.5	0.65	Townsend	June	25	59	24.7	981.0	0
Townsend	May	23	26	16.9	328.4	0.01	Townsend	June	26	60	26.0	1007.0	0
Townsend	May	24	27	11.1	339.5	0.08	Townsend	June	27	61	22.9	1029.9	0.13
Townsend	May	25	28	12.4	351.9	0	Townsend	June	28	62	18.8	1048.6	0
Townsend	May	26	29	12.2	364.1	0	Townsend	June	29	63	21.6	1070.2	0
Townsend	May	27	30	21.5	385.5	0.89	Townsend	June	30	64	25.0	1095.2	0
Townsend	May	28	31	20.0	405.5	0.1							
Townsend	May	29	32	18.7	424.2	0							
Townsend	May	30	33	23.2	447.4	0							
Townsend	May	31	34	26.0	473.3	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	65	28.8	1124.0	0	Townsend	August	1	96	26.1	1842.7	0
Townsend	July	2	66	24.4	1148.4	1.14	Townsend	August	2	97	27.1	1869.8	0.33
Townsend	July	3	67	20.4	1168.8	0.01	Townsend	August	3	98	26.7	1896.5	0
Townsend	July	4	68	18.1	1186.8	0	Townsend	August	4	99	28.3	1924.8	0.25
Townsend	July	5	69	20.5	1207.3	0.32	Townsend	August	5	100	28.7	1953.5	0
Townsend	July	6	70	25.2	1232.5	0	Townsend	August	6	101	28.2	1981.7	0
Townsend	July	7	71	21.4	1253.9	0.64	Townsend	August	7	102	30.8	2012.5	0
Townsend	July	8	72	19.8	1273.6	0	Townsend	August	8	103	30.9	2043.3	0
Townsend	July	9	73	20.1	1293.7	0.2	Townsend	August	9	104	30.9	2074.2	0.13
Townsend	July	10	74	17.4	1311.1	0.01	Townsend	August	10	105	29.6	2103.8	0.01
Townsend	July	11	75	14.2	1325.2	0	Townsend	August	11	106	29.3	2133.0	0.1
Townsend	July	12	76	21.2	1346.4	0.4	Townsend	August	12	107	23.7	2156.7	0
Townsend	July	13	77	23.8	1370.2	0	Townsend	August	13	108	18.4	2175.1	0
Townsend	July	14	78	24.9	1395.0	0	Townsend	August	14	109	21.9	2197.0	0
Townsend	July	15	79	21.0	1416.0	0	Townsend	August	15	110	21.4	2218.4	0.03
Townsend	July	16	80	19.6	1435.5	0.13	Townsend	August	16	111	18.3	2236.6	0
Townsend	July	17	81	21.7	1457.2	0.01	Townsend	August	17	112	18.9	2255.5	0.01
Townsend	July	18	82	26.4	1483.5	0.23	Townsend	August	18	113	20.6	2276.1	0
Townsend	July	19	83	26.1	1509.6	0.05	Townsend	August	19	114	23.8	2299.9	0
Townsend	July	20	84	26.8	1536.4	0	Townsend	August	20	115	25.7	2325.5	0
Townsend	July	21	85	29.2	1565.5	0	Townsend	August	21	116	24.8	2350.3	0.03
Townsend	July	22	86	27.7	1593.2	0	Townsend	August	22	117	27.7	2377.9	0.16
Townsend	July	23	87	28.1	1621.2	0	Townsend	August	23	118	25.9	2403.8	0
Townsend	July	24	88	25.8	1647.0	0	Townsend	August	24	119	25.6	2429.3	0
Townsend	July	25	89	28.4	1675.4	0	Townsend	August	25	120	24.2	2453.5	0
Townsend	July	26	90	22.6	1698.0	0	Townsend	August	26	121	27.7	2481.2	0
Townsend	July	27	91	23.9	1721.8	0	Townsend	August	27	122	27.5	2508.6	0
Townsend	July	28	92	27.5	1749.3	0	Townsend	August	28	123	27.5	2536.1	0
Townsend	July	29	93	23.5	1772.8	0	Townsend	August	29	124	27.0	2563.1	0
Townsend	July	30	94	23.9	1796.7	0	Townsend	August	30	125	29.6	2592.7	0
Townsend	July	31	95	19.9	1816.6	0.27	Townsend	August	31	126	24.6	2617.2	0

Table 2 continued...

Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall
Townsend	September	1	127	23.0	2640.2	0
Townsend	September	2	128	22.1	2662.3	0
Townsend	September	3	129	23.3	2685.6	0
Townsend	September	4	130	25.2	2710.8	0
Townsend	September	5	131	26.7	2737.5	0
Townsend	September	6	132	22.2	2759.6	2.37
Townsend	September	7	133	19.2	2778.8	0.02
Townsend	September	8	134	19.6	2798.3	0
Townsend	September	9	135	18.8	2817.1	0
Townsend	September	10	136	19.2	2836.3	0
Townsend	September	11	137	21.3	2857.6	0.43
Townsend	September	12	138	25.7	2883.3	0.62
Townsend	September	13	139	21.2	2904.4	0.01
Townsend	September	14	140	18.1	2922.5	0
Townsend	September	15	141	15.0	2937.5	0
Townsend	September	16	142	12.9	2950.4	0
Townsend	September	17	143	17.9	2968.3	0
Townsend	September	18	144	20.9	2989.1	0
Townsend	September	19	145	24.8	3013.9	0
Townsend	September	20	146	20.4	3034.3	0
Townsend	September	21	147	20.1	3054.4	0
Townsend	September	22	148	19.7	3074.0	0.32
Townsend	September	23	149	7.7	3081.7	0
Townsend	September	24	150	9.1	3090.7	0
Townsend	September	25	151	17.5	3108.2	0.03

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	67	28.2	1183.5	0	Laurel	August	1	98	28.9	2013.2	0
Laurel	July	2	68	30.5	1214.0	0	Laurel	August	2	99	28.0	2041.2	0
Laurel	July	3	69	25.4	1239.4	0	Laurel	August	3	100	26.7	2067.9	0
Laurel	July	4	70	23.9	1263.3	0	Laurel	August	4	101	28.0	2095.85	0.16
Laurel	July	5	71	24.2	1287.4	0.49	Laurel	August	5	102	28.4	2124.2	0.01
Laurel	July	6	72	29.0	1316.4	0	Laurel	August	6	103	28.5	2152.65	0.04
Laurel	July	7	73	24.1	1340.5	0.09	Laurel	August	7	104	29.9	2182.5	0
Laurel	July	8	74	25.2	1365.6	0	Laurel	August	8	105	30.4	2212.9	0
Laurel	July	9	75	20.3	1385.9	0.2	Laurel	August	9	106	32.0	2244.85	0
Laurel	July	10	76	19.7	1405.6	0	Laurel	August	10	107	29.5	2274.35	0.19
Laurel	July	11	77	19.2	1424.7	0	Laurel	August	11	108	26.3	2300.65	0
Laurel	July	12	78	25.4	1450.1	0.01	Laurel	August	12	109	23.5	2324.1	0.07
Laurel	July	13	79	27.4	1477.5	0.02	Laurel	August	13	110	20.5	2344.55	0
Laurel	July	14	80	29.2	1506.7	0	Laurel	August	14	111	22.1	2366.6	0
Laurel	July	15	81	26.5	1533.2	0.32	Laurel	August	15	112	22.6	2389.15	0
Laurel	July	16	82	24.4	1557.5	0.13	Laurel	August	16	113	20.6	2409.7	0
Laurel	July	17	83	27.9	1585.4	0.01	Laurel	August	17	114	20.6	2430.25	0
Laurel	July	18	84	29.6	1614.9	0.26	Laurel	August	18	115	21.9	2452.15	0
Laurel	July	19	85	29.0	1643.9	0	Laurel	August	19	116	24.5	2476.65	0
Laurel	July	20	86	27.2	1671.0	0	Laurel	August	20	117	25.6	2502.2	0
Laurel	July	21	87	29.0	1700.0	0.06	Laurel	August	21	118	23.8	2525.95	0.05
Laurel	July	22	88	29.3	1729.3	0	Laurel	August	22	119	29.3	2555.2	0.1
Laurel	July	23	89	29.7	1758.9	0	Laurel	August	23	120	27.0	2582.2	0
Laurel	July	24	90	29.0	1787.9	0	Laurel	August	24	121	25.3	2607.45	0
Laurel	July	25	91	29.7	1817.6	0.38	Laurel	August	25	122	25.0	2632.45	0
Laurel	July	26	92	26.8	1844.4	0.02	Laurel	August	26	123	27.5	2659.9	0
Laurel	July	27	93	29.2	1873.5	0.35	Laurel	August	27	124	27.3	2687.15	0.02
Laurel	July	28	94	30.5	1904.0	0	Laurel	August	28	125	26.9	2714	0.01
Laurel	July	29	95	27.4	1931.4	0.1	Laurel	August	29	126	27.5	2741.5	0
Laurel	July	30	96	27.3	1958.7	0	Laurel	August	30	127	27.6	2769.1	0.35
Laurel	July	31	97	25.6	1984.3	0	Laurel	August	31	128	24.0	2793.1	0.02

Table 2 Continued...

Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall
Laurel	September	1	129	22.9	2816.0	0
Laurel	September	2	130	22.3	2838.3	0
Laurel	September	3	131	23.1	2861.4	0
Laurel	September	4	132	25.0	2886.4	0
Laurel	September	5	133	26.2	2912.6	0
Laurel	September	6	134	26.6	2939.2	0.43
Laurel	September	7	135	20.6	2959.8	0.1
Laurel	September	8	136	17.7	2977.5	0
Laurel	September	9	137	17.4	2994.8	0
Laurel	September	10	138	19.3	3014.1	0.01
Laurel	September	11	139	23.1	3037.2	1.08
Laurel	September	12	140	29.7	3066.9	0.69
Laurel	September	13	141	22.6	3089.4	0.51
Laurel	September	14	142	18.5	3107.9	0.55
Laurel	September	15	143	17.0	3124.9	0
Laurel	September	16	144	14.0	3138.9	0
Laurel	September	17	145	17.1	3156.0	0
Laurel	September	18	146	19.6	3175.6	0
Laurel	September	19	147	23.5	3199.1	0
Laurel	September	20	148	21.2	3220.3	0
Laurel	September	21	149	20.3	3240.6	0
Laurel	September	22	150	22.2	3262.8	0.12
Laurel	September	23	151	5.7	3268.4	0
Laurel	September	24	152	6.6	3275.0	0
Laurel	September	25	153	15.3	3290.2	0.27
Laurel	September	26	154	18.0	3308.2	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	May	3	1	8.0	8.0	0	Dover	June	1	30	25.9	478.2	0
Dover	May	4	2	12.3	20.3	0.36	Dover	June	2	31	26.4	504.6	0.02
Dover	May	5	3	11.0	31.3	0	Dover	June	3	32	19.6	524.1	0.01
Dover	May	6	4	5.0	36.3	0.87	Dover	June	4	33	20.7	544.8	0
Dover	May	7	5	1.2	37.4	1.69	Dover	June	5	34	14.9	559.6	0
Dover	May	8	6	2.9	40.3	0.15	Dover	June	6	35	15.2	574.8	0
Dover	May	9	7	9.2	49.5	0	Dover	June	7	36	21.3	596.1	0
Dover	May	10	8	11.7	61.1	0	Dover	June	8	37	28.2	624.3	0.03
Dover	May	11	9	10.2	71.3	0	Dover	June	9	38	24.6	648.9	0.13
Dover	May	12	10	13.4	84.7	0	Dover	June	10	39	18.3	667.1	0
Dover	May	13	11	14.2	98.9	0.39	Dover	June	11	40	17.6	684.7	0
Dover	May	14	12	13.9	112.8	0.15	Dover	June	12	41	21.7	706.4	0.34
Dover	May	15	13	20.0	132.8	0.01	Dover	June	13	42	27.7	734.1	0.01
Dover	May	16	14	20.4	153.1	0	Dover	June	14	43	23.4	757.5	0.28
Dover	May	17	15	17.7	170.8	0	Dover	June	15	44	22.8	780.3	0
Dover	May	18	16	11.8	182.6	0	Dover	June	16	45	24.3	804.5	0.18
Dover	May	19	17	19.2	201.7	0.28	Dover	June	17	46	28.4	832.9	0
Dover	May	20	18	24.0	225.7	0	Dover	June	18	47	14.7	847.6	0
Dover	May	21	19	29.9	255.6	0	Dover	June	19	48	12.7	860.2	0
Dover	May	22	20	27.7	283.3	0.13	Dover	June	20	49	14.8	875.0	0
Dover	May	23	21	18.8	302.1	0.01	Dover	June	21	50	17.5	892.5	0
Dover	May	24	22	10.7	312.8	0.17	Dover	June	22	51	21.6	914.1	0.04
Dover	May	25	23	12.8	325.5	0	Dover	June	23	52	16.3	930.3	0.29
Dover	May	26	24	14.2	339.7	0.01	Dover	June	24	53	19.9	950.2	0
Dover	May	27	25	22.5	362.1	0.89	Dover	June	25	54	25.4	975.6	0
Dover	May	28	26	20.6	382.7	0.04	Dover	June	26	55	25.8	1001.4	0
Dover	May	29	27	19.4	402.0	0	Dover	June	27	56	25.3	1026.7	0.33
Dover	May	30	28	23.7	425.7	0	Dover	June	28	57	19.4	1046.1	0
Dover	May	31	29	26.7	452.4	0	Dover	June	29	58	21.8	1067.9	0
							Dover	June	30	59	25.4	1093.3	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	60	28.8	1122.0	0		Dover	August	1	91	27.1	1958.3	0.06
Dover	July	2	61	28.6	1150.6	2.02		Dover	August	2	92	27.1	1985.4	0.03
Dover	July	3	62	26.1	1176.6	0.16		Dover	August	3	93	26.7	2012.1	0
Dover	July	4	63	23.8	1200.4	0		Dover	August	4	94	27.7	2039.8	0.44
Dover	July	5	64	26.2	1226.6	1.12		Dover	August	5	95	28.7	2068.4	0.02
Dover	July	6	65	28.9	1255.4	0.01		Dover	August	6	96	28.5	2096.9	0
Dover	July	7	66	24.2	1279.6	1.27		Dover	August	7	97	30.7	2127.6	0
Dover	July	8	67	25.6	1305.2	0		Dover	August	8	98	30.7	2158.2	0
Dover	July	9	68	22.1	1327.3	0.3		Dover	August	9	99	32.1	2190.3	0
Dover	July	10	69	20.8	1348.0	0		Dover	August	10	100	28.6	2218.9	1.37
Dover	July	11	70	19.5	1367.5	0		Dover	August	11	101	29.1	2247.9	0.08
Dover	July	12	71	26.9	1394.4	0.02		Dover	August	12	102	22.5	2270.4	0
Dover	July	13	72	28.2	1422.5	0		Dover	August	13	103	20.2	2290.6	0
Dover	July	14	73	28.6	1451.1	0		Dover	August	14	104	22.0	2312.5	0
Dover	July	15	74	26.5	1477.6	0		Dover	August	15	105	21.6	2334.1	0
Dover	July	16	75	26.1	1503.7	0.31		Dover	August	16	106	19.4	2353.5	0
Dover	July	17	76	26.1	1529.8	0.07		Dover	August	17	107	21.0	2374.5	0
Dover	July	18	77	29.6	1559.4	0.32		Dover	August	18	108	21.0	2395.4	0
Dover	July	19	78	29.5	1588.8	0.13		Dover	August	19	109	24.5	2419.9	0
Dover	July	20	79	29.3	1618.1	0		Dover	August	20	110	25.6	2445.5	0
Dover	July	21	80	30.7	1648.8	0		Dover	August	21	111	23.7	2469.2	0.12
Dover	July	22	81	29.6	1678.3	0		Dover	August	22	112	28.8	2497.9	0.34
Dover	July	23	82	29.3	1707.6	0		Dover	August	23	113	26.4	2524.3	0.08
Dover	July	24	83	28.0	1735.6	0		Dover	August	24	114	25.6	2549.8	0
Dover	July	25	84	30.4	1765.9	0.01		Dover	August	25	115	24.9	2574.7	0
Dover	July	26	85	25.3	1791.2	0		Dover	August	26	116	28.1	2602.8	0
Dover	July	27	86	28.7	1819.9	0		Dover	August	27	117	28.1	2630.9	0
Dover	July	28	87	30.2	1850.1	0		Dover	August	28	118	28.6	2659.5	0
Dover	July	29	88	27.6	1877.6	0		Dover	August	29	119	27.8	2687.3	0
Dover	July	30	89	27.3	1904.9	0		Dover	August	30	120	29.2	2716.4	0.16
Dover	July	31	90	26.3	1931.2	0.1		Dover	August	31	121	23.5	2739.9	0

Table 2 Continued...

Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall
Dover	September	1	122	23.2	2763.1	0
Dover	September	2	123	22.6	2785.7	0
Dover	September	3	124	22.7	2808.4	0
Dover	September	4	125	25.2	2833.5	0
Dover	September	5	126	26.3	2859.8	0
Dover	September	6	127	24.6	2884.3	2.53
Dover	September	7	128	19.5	2903.8	0.23
Dover	September	8	129	19.8	2923.5	0
Dover	September	9	130	18.7	2942.2	0
Dover	September	10	131	18.8	2961.0	0
Dover	September	11	132	24.2	2985.2	0.55
Dover	September	12	133	28.5	3013.7	0.6
Dover	September	13	134	22.3	3036.0	0.03
Dover	September	14	135	18.0	3054.0	0
Dover	September	15	136	15.6	3069.5	0
Dover	September	16	137	14.0	3083.5	0
Dover	September	17	138	18.4	3101.9	0
Dover	September	18	139	21.5	3123.3	0
Dover	September	19	140	25.4	3148.7	0
Dover	September	20	141	21.1	3169.8	0
Dover	September	21	142	20.4	3190.2	0
Dover	September	22	143	20.6	3210.8	0.33
Dover	September	23	144	7.7	3218.5	0
Dover	September	24	145	10.0	3228.5	0
Dover	September	25	146	17.3	3245.8	0
Dover	September	26	147	17.2	3263.0	0
Dover	September	27	148	11.5	3274.4	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	July	1	68	28.1	1177.5	0		Georgetown	August	1	99	29.0	2014.1	0
Georgetown	July	2	69	30.6	1208.1	0		Georgetown	August	2	100	28.4	2042.5	0
Georgetown	July	3	70	24.4	1232.5	0.03		Georgetown	August	3	101	27.0	2069.5	0
Georgetown	July	4	71	23.9	1256.4	0		Georgetown	August	4	102	28.0	2097.4	0.84
Georgetown	July	5	72	25.5	1281.9	0.43		Georgetown	August	5	103	28.1	2125.5	1.24
Georgetown	July	6	73	29.2	1311.1	0		Georgetown	August	6	104	28.1	2153.6	0
Georgetown	July	7	74	23.7	1334.7	0.13		Georgetown	August	7	105	30.0	2183.5	0
Georgetown	July	8	75	25.3	1360.0	0		Georgetown	August	8	106	30.4	2213.9	0
Georgetown	July	9	76	20.6	1380.6	0.3		Georgetown	August	9	107	32.2	2246.1	0
Georgetown	July	10	77	20.0	1400.6	0		Georgetown	August	10	108	29.9	2276.0	0.51
Georgetown	July	11	78	18.7	1419.3	0		Georgetown	August	11	109	26.5	2302.5	0
Georgetown	July	12	79	26.0	1445.2	0.01		Georgetown	August	12	110	23.1	2325.5	0.02
Georgetown	July	13	80	27.5	1472.7	0.05		Georgetown	August	13	111	19.3	2344.8	0
Georgetown	July	14	81	29.6	1502.3	0		Georgetown	August	14	112	21.3	2366.0	0
Georgetown	July	15	82	26.9	1529.1	0.14		Georgetown	August	15	113	22.0	2388.0	0
Georgetown	July	16	83	26.5	1555.6	0.18		Georgetown	August	16	114	19.9	2407.9	0
Georgetown	July	17	84	27.7	1583.3	0		Georgetown	August	17	115	20.3	2428.1	0
Georgetown	July	18	85	30.3	1613.6	0.03		Georgetown	August	18	116	22.1	2450.2	0
Georgetown	July	19	86	29.3	1642.9	0.03		Georgetown	August	19	117	25.0	2475.2	0
Georgetown	July	20	87	27.4	1670.3	0		Georgetown	August	20	118	25.9	2501.1	0
Georgetown	July	21	88	28.9	1699.2	0.87		Georgetown	August	21	119	23.6	2524.7	0.03
Georgetown	July	22	89	30.0	1729.1	0.01		Georgetown	August	22	120	28.0	2552.6	0.06
Georgetown	July	23	90	30.4	1759.5	0		Georgetown	August	23	121	27.2	2579.8	0
Georgetown	July	24	91	29.0	1788.4	0		Georgetown	August	24	122	25.1	2604.9	0
Georgetown	July	25	92	30.1	1818.5	0.07		Georgetown	August	25	123	24.7	2629.6	0
Georgetown	July	26	93	26.6	1845.1	0.14		Georgetown	August	26	124	28.1	2657.6	0
Georgetown	July	27	94	28.9	1874.0	0.56		Georgetown	August	27	125	27.0	2684.6	0.14
Georgetown	July	28	95	30.5	1904.4	0		Georgetown	August	28	126	26.8	2711.4	0
Georgetown	July	29	96	27.8	1932.2	0.02		Georgetown	August	29	127	27.9	2739.2	0.01
Georgetown	July	30	97	27.1	1959.3	0		Georgetown	August	30	128	28.3	2767.5	0.39
Georgetown	July	31	98	25.9	1985.1	0		Georgetown	August	31	129	23.8	2791.2	0.02

Table 2 Continued...

Station	Month	Date	Day	Daily GDD	Cumulative GDD	Daily Rainfall
Georgetown	September	1	130	22.7	2813.9	0
Georgetown	September	2	131	21.5	2835.4	0
Georgetown	September	3	132	22.6	2857.9	0
Georgetown	September	4	133	24.3	2882.2	0
Georgetown	September	5	134	25.5	2907.6	0
Georgetown	September	6	135	26.2	2933.8	0.63
Georgetown	September	7	136	20.6	2954.4	0.2
Georgetown	September	8	137	17.7	2972.1	0
Georgetown	September	9	138	18.5	2990.5	0
Georgetown	September	10	139	18.2	3008.7	0
Georgetown	September	11	140	22.5	3031.1	1.35
Georgetown	September	12	141	28.6	3059.7	0.23
Georgetown	September	13	142	22.9	3082.6	0.7
Georgetown	September	14	143	18.7	3101.2	0
Georgetown	September	15	144	17.2	3118.4	0
Georgetown	September	16	145	13.8	3132.2	0
Georgetown	September	17	146	16.9	3149.1	0
Georgetown	September	18	147	18.7	3167.7	0
Georgetown	September	19	148	23.7	3191.4	0

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

Planted 4/28/2022 & Harvested September 26, Early Hybrids									Performance Ranking for				Pooled sites			
Brand	Hybrid	Yield Bu/A ¹	% Moisture	Yield/Moisture	Test Weight	Final Pop	% Stalk Lodging	% Relative Yield to Check Avg.	Middletown Dryland	Laurel Irrigated	Georgetown Irrigated	Camden Wyoming Irrigated	Irrigated Yield Avg. Bu/A	Rank	Pooled Yield Ave. Bu/A	Two Year Yield Ave. Bu/A
AgVenture	AV6010AM	203.8	16.2	12.3	57.6	25300.0	0.0	116.7	1	3	10	6	254.0	7	241.4	
Augusta	A1359	190.8	16.4	12.2	58.0	23512.5	0.0	109.3	2	7	4	10	254.6	5	238.7	
Invision	FS 6017V RIB	183.7	15.7	11.3	56.6	25162.5	1.7	105.2	3	11	8	9	249.1	10	232.8	
Seed Consultants	SC1093AM	182.9	14.8	12.0	58.4	25437.5	0.6	104.8	4	6	11	2	253.3	8	235.7	
DeKalb	DKC62-53RIB (Check)	180.0	16.3	11.1	58.3	24612.5	1.8	103.1	5	2	9	5	255.5	4	236.6	
Seed Consultants	SC1071AM	172.9	15.4	11.2	57.4	26262.5	5.9	99.0	6	1	3	4	260.9	2	238.9	237.1
Dyna-Gro	D50VC09	172.4	14.9	11.7	56.3	25025.0	1.7	98.7	7	10	2	1	257.9	3	236.5	
Revere Seed	Revere 0707 DGV2PRIB	171.5	14.7	11.7	58.8	26125.0	0.0	98.2	8	13	14	16	238.1	15	221.5	
AgVenture	AV9610AM	171.0	15.7	10.4	58.9	24612.5	0.0	97.9	9	9	15	11	244.6	13	226.2	232.5
DeKalb	DKC61-41RIB (Check)	169.3	17.2	9.9	55.4	25025.0	1.7	96.9	10	8	5	7	254.6	6	233.3	
Seed Consultants	SC1053AM	168.3	15.8	10.7	57.3	23925.0	0.0	96.4	11	17	17	17	218.0	17	205.6	
AgVenture	AV4509AML	167.4	16.4	10.2	58.8	25162.5	1.1	95.8	12	16	12	14	238.9	14	221.0	
Mid-Atlantic Seeds	MA8108	165.2	15.2	10.6	60.3	23512.5	1.9	94.6	13	5	13	13	247.8	11	227.2	
Mid-Atlantic Seeds	MA8091	157.9	17.8	9.1	56.9	20900.0	3.8	90.4	14	15	6	3	251.9	9	228.4	230.2
AgVenture	AV5107AM	154.6	14.6	10.7	57.1	24887.5	3.3	88.5	15	4	1	8	262.3	1	235.3	233.4
Revere Seed	Revere 0918 VT2PRIB	154.1	15.4	10.0	57.3	23925.0	0.6	88.2	16	12	7	12	247.7	12	224.3	
NK	NK1082-5222A	153.5	16.3	9.5	56.0	24750.0	6.1	87.9	17	14	16	15	234.9	16	214.5	219.5

Check Avg.	174.6	16.7	10.5	56.8	24818.8	1.7										
Test Avg.	171.2	15.8	10.9	57.6	24596.3	1.8										
LSD (0.05)	NS	NS	NS	1.3	2414.5	NS										
% 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										Performance Ranking for				Pooled sites		Two Year Yield Ave. Bu/A
Brand	Hybrid	Yield Bu/A ¹	% Moisture	Yield/Moisture	Test Weight	Final Pop	% Stalk Lodging	% Relative Yield to Check Avg.	Middletown Dryland	Laurel Irrigated	Georgetown Irrigated	Camden Wyoming Irrigated	Irrigated Yield Avg. Bu/A	Rank	Pooled Yield Ave. Bu/A	
Seed Consultants	SC1112AM	174.8	15.0	10.8	59.1	24337.5	6.3	108.9	1	3	4	1	271.8	1	247.5	239.9
DeKalb	DKC64-65RIB (Check)	164.1	16.1	10.1	58.8	23375.0	6.3	102.2	2	6	6	6	260.4	5	236.3	
Revere Seed	Revere1307 TCRIB	162.8	15.0	10.6	57.9	24062.5	6.1	101.5	3	13	9	5	258.5	6	234.6	233.5
Mid-Atlantic Seeds	MA8110	161.5	15.3	10.2	57.7	24750.0	11.6	100.6	4	11	7	12	257.7	9	233.7	233.0
Mid-Atlantic Seeds	MA8145	161.2	14.7	10.0	58.0	22825.0	4.3	100.4	5	2	13	9	263.1	4	237.6	
Dyna-Gro	D53TC23	160.5	15.4	10.2	58.0	24750.0	7.2	100.0	6	12	12	14	256.0	14	232.1	
MorCorn	MC4161	160.5	15.0	9.1	57.2	24200.0	30.4	100.0	7	15	16	4	258.0	7	233.7	231.0
Invision	FS 6424V RIB	157.1	15.8	9.3	58.0	24062.5	7.7	97.9	8	1	1	7	270.6	2	242.2	
DeKalb	DKC65-95RIB (Check)	157.0	16.3	7.6	59.5	21725.0	6.6	97.8	9	14	21	21	249.0	21	226.0	
Mid-Atlantic Seeds	MA8136	156.6	14.4	10.7	57.9	24612.5	11.6	97.5	10	19	15	13	254.2	17	229.8	
Mid-Atlantic Seeds	MA5124	156.3	15.1	9.4	58.8	25300.0	1.6	97.4	11	7	20	20	251.9	20	228.0	
AgVenture	AV4313AM	155.6	15.6	9.6	58.9	24750.0	2.7	96.9	12	21	3	22	252.2	19	228.0	233.3
MorCorn	MC4311	155.4	15.4	9.7	57.9	25437.5	10.0	96.8	13	4	14	19	257.3	12	231.8	233.5
Invision	FS 6306T RIB	153.9	15.0	10.0	58.2	24475.0	10.5	95.9	14	16	8	16	256.0	15	230.5	
Dyna-Gro	D52VC63	152.2	15.0	9.9	57.6	25850.0	3.2	94.8	15	8	2	2	263.9	3	236.0	
AgVenture	AV7913AM	151.3	14.2	10.8	60.3	24062.5	12.3	94.3	16	20	5	18	254.7	16	228.9	
Augusta	1964	150.5	16.0	9.3	58.7	25162.5	1.1	93.8	17	5	19	17	256.9	13	230.3	
Seed Consultants	SC1122Q	149.3	15.2	9.7	58.1	23925.0	0.6	93.0	18	22	22	15	246.1	22	221.9	225.3
Dyna-Gro	D54VC34	148.8	15.0	9.5	59.3	22275.0	13.2	92.7	19	9	11	11	257.5	11	230.3	
Revere Seed	Revere 1398 VT2PRIB	142.8	14.9	9.6	58.5	24062.5	6.9	88.9	20	17	17	3	257.5	10	228.8	233.0
Dyna-Gro	D54VC14	141.9	14.4	9.5	60.0	21862.5	7.8	88.4	21	10	10	8	257.9	8	228.9	227.0
Mid-Atlantic Seeds	MA8141	139.1	15.2	9.1	59.3	23237.5	11.1	86.7	22	18	18	10	253.9	18	225.2	236.3
	Check Avg.	160.5	16.2	8.9	59.1	22550.0	6.5									
	Test Avg.	155.5	15.2	9.9	58.5	24050.0	8.1									
	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 = not statistically significant at a 5% probability level

**Table 5. Dryland Corn Hybrid Performance Summary
Emerson Farms (New Castle County) Middletown, Delaware**

Planted 4/28/2022 & Harvested September 26, Medium Hybrids									Performance Ranking for				Pooled sites			
Brand	Hybrid	Yield Bu/A ¹	% Moisture	Yield/Moisture	Test Weight	Final Pop	% Stalk Lodging	% Relative Yield to Check Avg.	Middletown Dryland	Laurel Irrigated	Georgetown Irrigated	Camden Wyoming Irrigated	Irrigated Yield Avg. Bu/A	Rank	Pooled Yield Ave. Bu/A	Two Year Yield Ave. Bu/A
Seed Consultants	SC1183AM	177.0	16.8	10.4	58.3	24750.0	0.0	118.8	1	3	9	4	262.5	4	241.1	
AgVenture	AV3917AM	168.4	17.3	9.8	58.8	25437.5	0.5	113.0	2	2	7	2	265.5	3	241.2	236.4
AgVenture	AV9916AM	163.2	16.7	9.8	58.3	25850.0	0.0	109.5	3	9	8	3	259.5	7	235.4	
Dyna-Gro	D55VC80	161.0	17.6	9.3	57.9	24612.5	3.3	108.1	4	4	1	1	272.3	1	244.4	235.8
NK	NK1701-3220	161.0	17.5	9.2	55.9	26125.0	1.0	108.0	5	15	15	15	223.8	15	208.1	
Seed Consultants	SC1170AM	157.0	16.5	9.5	58.3	23375.0	0.6	105.4	6	7	13	7	253.5	10	229.4	
NK	NK1748-3110	155.0	17.8	8.9	57.0	24612.5	0.6	104.0	7	10	3	6	260.0	6	233.7	232.5
MorCorn	MC4527	154.4	14.2	10.6	59.6	24750.0	2.9	103.6	8	14	14	13	242.7	14	220.6	
Invision	FS 6595V RIB	150.7	16.4	9.2	58.4	25850.0	5.6	101.1	9	1	5	5	265.7	2	237.0	
Augusta	A1465	149.8	14.2	10.6	59.9	23650.0	4.8	100.5	10	12	12	12	246.1	13	222.0	
Dyna-Gro	D58VC65 (Check)	149.7	14.4	10.7	60.1	25712.5	13.4	100.4	11	6	6	9	258.0	8	230.9	
MorCorn	MC4725	149.6	15.2	10.0	59.7	25162.5	2.2	100.4	12	13	11	8	249.3	11	224.4	230.6
DeKalb	DKC70-27RIB (Check)	148.4	16.3	9.1	59.3	24612.5	1.1	99.6	13	5	2	10	261.9	5	233.5	
Mid-Atlantic Seeds	MA5155	146.4	17.2	8.5	59.5	24337.5	0.0	98.3	14	11	4	11	255.2	9	228.0	228.9
NK	NK1677-3110	142.0	16.9	8.1	58.8	24200.0	1.1	95.3	15	8	10	14	248.9	12	222.1	
	Check Avg.	149.0	15.4	9.9	59.7	25162.5	7.3									
	Test Avg.	155.3	16.3	9.5	58.6	24869.2	2.5									
	LSD (0.05)	NS	2.3	NS	1.1	NS	6.2									
	% C.V.	10.2	8.6	10.4	1.1	5.6	151.2									
	Check Avg. + LSD (0.05)															

NS = not statistically significant at a 5% probability level

**Table 6. Irrigated Corn Hybrid Performance Summary
Thomas Family Farms (Kent County) Camden Wyoming, Delaware**

Planted 5/3/2022 & Harvested September 28, Early Hybrids																
Brand	Hybrid	Yield Bu/A ¹	% Moisture	Yield/Moisture	Test Weight	Final Pop	% Stalk Lodging	% Relative Yield to Check Avg.	Performance Ranking for				Pooled sites		Two Year Yield Ave. Bu/A	
									Camden Wyoming Irrigated	Georgetown Irrigated	Laurel Irrigated	Middletown Dryland	Irrigated Yield Avg. Bu/A	Rank		Pooled Yield Ave. Bu/A
Dyna-Gro	D50VC09	268.4	19.1	14.1	56.6	32725.0	0.0	101.6	1	2	10	7	257.9	3	236.5	
Seed Consultants	SC1093AM	267.8	20.2	13.3	53.9	32587.5	0.0	101.4	2	11	6	4	253.3	8	235.7	
Mid-Atlantic Seeds	MA8091	267.8	20.4	13.1	57.1	31487.5	0.0	101.4	3	6	15	14	251.9	9	228.4	230.2
Seed Consultants	SC1071AM	266.4	18.6	14.3	56.5	33550.0	0.0	100.9	4	3	1	6	260.9	2	238.9	237.1
DeKalb	DKC62-53RIB (Check)	265.2	19.6	13.5	56.9	32175.0	0.4	100.4	5	9	2	5	255.5	4	236.6	
AgVenture	AV6010AM	263.7	20.8	12.7	53.0	32862.5	0.0	99.8	6	10	3	1	254.0	7	241.4	
DeKalb	DKC61-41RIB (Check)	263.0	19.5	13.5	54.4	33275.0	0.0	99.6	7	5	8	10	254.6	6	233.3	
AgVenture	AV5107AM	259.4	18.3	14.2	56.5	32312.5	0.0	98.2	8	1	4	15	262.3	1	235.3	233.4
Invision	FS 6017V RIB	258.2	18.9	13.7	56.4	31212.5	0.0	97.8	9	8	11	3	249.1	10	232.8	
Augusta	A1359	257.8	19.1	13.5	57.8	32037.5	0.4	97.6	10	4	7	2	254.6	5	238.7	
AgVenture	AV9610AM	254.3	19.5	13.1	56.6	33412.5	0.0	96.3	11	15	9	9	244.6	13	226.2	232.5
Revere Seed	Revere 0918 VT2PRIB	253.8	18.2	13.9	57.2	31762.5	0.0	96.1	12	7	12	16	247.7	12	224.3	
Mid-Atlantic Seeds	MA8108	251.9	18.0	14.0	59.0	32862.5	0.0	95.4	13	13	5	13	247.8	11	227.2	
AgVenture	AV4509AML	245.8	18.4	13.4	57.9	30250.0	0.0	93.1	14	12	16	12	238.9	14	221.0	
NK	NK1082-5222A	245.5	19.4	12.7	56.3	32862.5	1.2	92.9	15	16	14	17	234.9	16	214.5	219.5
Revere Seed	Revere 0707 DGVT2PRIB	239.8	18.3	13.1	57.0	33825.0	0.0	90.8	16	14	13	8	238.1	15	221.5	
Seed Consultants	SC1053AM	226.3	17.3	13.1	56.6	30800.0	0.0	85.7	17	17	17	11	218.0	17	205.6	
	Check Avg.	264.1	19.5	13.5	55.6	32725.0	0.2									
	Test Avg.	256.2	19.0	13.5	56.4	32352.9	0.1									
	LSD (0.05)	14.3	0.9	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														

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

**Table 7. Irrigated Corn Hybrid Performance Summary
Thomas Family Farms (Kent County) Camden Wyoming, Delaware**

Planted 5/3/2022 & Harvested September 28, Early-Medium Hybrids																
Brand	Hybrid	Yield Bu/A ¹	% Moisture	Yield/Moisture	Test Weight	Final Pop	% Stalk Lodging	% Relative Yield to Check Avg.	Performance Ranking for				Pooled sites		Two Year Yield Ave. Bu/A	
									Camden Wyoming Irrigated	Georgetown Irrigated	Laurel Irrigated	Middletown Dryland	Irrigated Yield Avg. Bu/A	Rank		Pooled Yield Ave. Bu/A
Seed Consultants	SC1112AM	293.6	21.3	13.8	56.1	33000.0	0.0	109.7	1	4	3	1	271.8	1	247.5	239.9
Dyna-Gro	D52VC63	283.7	21.2	13.5	56.8	32587.5	0.0	106.0	2	2	8	15	263.9	3	236.0	
Revere Seed	Revere 1398 VT2PRIB	283.2	21.3	13.3	56.6	31762.5	0.0	105.9	3	17	17	20	257.5	10	228.8	233
MorCorn	MC4161	282.6	21.1	13.4	56.7	32175.0	0.0	105.7	4	16	15	7	258.0	7	233.7	231
Revere Seed	Revere1307 TCRIB	276.2	20.6	13.4	56.8	32725.0	0.0	103.3	5	9	13	3	258.5	6	234.6	233.5
DeKalb	DKC64-65RIB (Check)	276.1	22.1	12.5	56.7	31212.5	0.0	103.2	6	6	6	2	260.4	5	236.3	
Invision	FS 6424V RIB	276.0	22.6	12.2	56.9	32587.5	1.3	103.2	7	1	1	8	270.6	2	242.2	
Dyna-Gro	D54VC14	275.3	21.3	13.0	57.3	32862.5	0.0	102.9	8	10	10	21	257.9	8	228.9	227.0
Mid-Atlantic Seeds	MA8145	274.7	21.9	12.5	56.9	30525.0	0.9	102.7	9	13	2	5	263.1	4	237.6	
Mid-Atlantic Seeds	MA8141	274.6	21.8	12.6	56.6	32175.0	0.0	102.6	10	18	18	22	253.9	18	225.2	236.3
Dyna-Gro	D54VC34	273.2	21.6	12.7	57.3	30250.0	1.0	102.1	11	11	9	19	257.5	11	230.3	
Mid-Atlantic Seeds	MA8110	272.8	21.0	13.0	56.4	29837.5	0.0	102.0	12	7	11	4	257.7	9	233.7	233.0
Mid-Atlantic Seeds	MA8136	272.2	21.9	12.5	55.8	30937.5	0.0	101.7	13	15	19	10	254.2	17	229.8	
Dyna-Gro	D53TC23	270.6	20.7	13.1	56.9	30250.0	0.0	101.2	14	12	12	6	256.0	14	232.1	
Seed Consultants	SC1122Q	270.1	20.8	13.0	56.2	31212.5	0.0	101.0	15	22	22	18	246.1	22	221.9	225.3
Invision	FS 6306T RIB	270.0	21.0	12.9	57.0	33275.0	0.0	100.9	16	8	16	14	256.0	15	230.5	
Augusta	1964	269.3	20.9	12.9	56.9	35887.5	0.0	100.7	17	19	5	17	256.9	13	230.3	
AgVenture	AV7913AM	267.7	21.9	12.3	55.7	29700.0	0.0	100.1	18	5	20	16	254.7	16	228.9	
MorCorn	MC4311	266.0	20.9	12.7	56.4	28737.5	0.0	99.4	19	14	4	13	257.3	12	231.8	233.5
Mid-Atlantic Seeds	MA5124	261.7	21.2	12.4	56.7	34650.0	0.0	97.8	20	20	7	11	251.9	20	228.0	
DeKalb	DKC65-95RIB (Check)	258.9	22.4	11.6	56.5	30112.5	0.0	96.8	21	21	14	9	249.0	21	226.0	
AgVenture	AV4313AM	256.8	21.2	12.2	55.8	31350.0	0.0	96.0	22	3	21	12	252.2	19	228.0	233.3
	Check Avg.	267.5	22.2	12.1	56.6	30662.5	0.0									
	Test Avg.	273.0	21.4	12.8	56.6	31718.8	0.1									
	LSD (0.05)	12.5	0.9	0.8	1.1	2231.8	NS									
	% C.V.	2.8	2.6	4.0	1.0	4.5	143.8									
	Check Avg. + LSD (0.05)	280.0														

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

**Table 8. Irrigated Corn Hybrid Performance Summary
Thomas Family Farms (Kent County) Camden Wyoming, Delaware**

Planted 5/3/2022 & Harvested September 28, Medium Hybrids																
Brand	Hybrid	Yield Bu/A ¹	% Moisture	Yield/Moisture	Test Weight	Final Pop	% Stalk Lodging	% Relative Yield to Check Avg.	Performance Ranking for				Pooled sites		Two Year Yield Ave. Bu/A	
									Camden Wyoming Irrigated	Georgetown Irrigated	Laurel Irrigated	Middletown Dryland	Irrigated Yield Avg. Bu/A	Rank		Pooled Yield Ave. Bu/A
Dyna-Gro	D55VC80	293.2	23.0	12.8	55.5	34650.0	0.8	110.4	1	1	4	4	272.3	1	244.4	235.8
AgVenture	AV3917AM	281.5	23.2	12.2	55.9	31350.0	0.0	106.0	2	7	2	2	265.5	3	241.2	236.4
AgVenture	AV9916AM	279.4	22.7	12.3	55.7	29562.5	0.0	105.2	3	8	9	3	259.5	7	235.4	
Seed Consultants	SC1183AM	277.9	22.6	12.3	56.0	33687.5	0.4	104.6	4	9	3	1	262.5	4	241.1	
Invision	FS 6595V RIB	277.0	23.2	12.0	55.4	32725.0	0.0	104.3	5	5	1	9	265.7	2	237.0	
NK	NK1748-3110	274.5	23.2	11.8	54.7	29150.0	0.5	103.4	6	3	10	7	260.0	6	233.7	232.5
Seed Consultants	SC1170AM	266.8	22.0	12.2	56.7	29975.0	0.5	100.5	7	13	7	6	253.5	10	229.4	
MorCorn	MC4725	266.7	22.1	12.1	56.4	31762.5	0.4	100.4	8	11	13	12	249.3	11	224.4	230.6
Dyna-Gro	D58VC65 (Check)	266.3	21.7	12.3	56.9	32450.0	0.0	100.3	9	6	6	11	258.0	8	230.9	
DeKalb	DKC70-27RIB (Check)	264.8	24.4	10.9	54.8	31075.0	0.0	99.7	10	2	5	13	261.9	5	233.5	
Mid-Atlantic Seeds	MA5155	262.7	24.0	11.0	55.3	33275.0	0.0	98.9	11	4	11	14	255.2	9	228.0	228.9
Augusta	A1465	255.6	21.4	12.0	57.8	31625.0	0.5	96.2	12	12	12	10	246.1	13	222.0	
MorCorn	MC4527	255.2	20.9	12.2	57.7	31350.0	0.0	96.1	13	14	14	8	242.7	14	220.6	
NK	NK1677-3110	247.5	23.6	10.5	54.5	31762.5	0.0	93.2	14	10	8	15	248.9	12	222.1	
NK	NK1701-3220	223.7	21.9	10.2	54.2	33137.5	0.0	84.2	15	15	15	5	223.8	15	208.1	
	Check Avg.	265.6	23.0	11.6	55.8	31762.5	0.0									
	Test Avg.	266.2	22.6	11.8	55.8	31835.8	0.2									
	LSD (0.05)	12.5	0.8	0.8	0.7	2685.0	NS									
	% C.V.	2.9	2.1	3.9	0.8	5.6	200.0									
	Check Avg. + LSD (0.05)	278.1														

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

**Table 9. Irrigated Corn Hybrid Performance Summary
Plum Creek Farms, LLC (Sussex County) Laurel, Delaware**

Planted 4/26/2022 & Harvested September 27. Early Hybrids																
Brand	Hybrid	Yield Bu/A ¹	% Moisture	Yield/ Moisture	Test Weight	Final Pop	% Stalk Lodging	% Relative Yield to Check Avg.	Performance Ranking for				Pooled sites		Two Year Yield Ave. Bu/A	
									Laurel Irrigated	Georgetown Irrigated	Camden Wyoming Irrigated	Middletown Dryland	Irrigated Yield Avg. Bu/A	Rank		Pooled Yield Ave. Bu/A
Seed Consultants	SC1071AM	259.4	15.4	16.8	58.6	31075.0	3.5	102.1	1	3	4	6	260.9	2	238.9	237.1
DeKalb	DKC62-53RIB (Check)	258.4	16.0	16.1	59.5	30800.0	3.6	101.8	2	9	5	5	255.5	4	236.6	
AgVenture	AV6010AM	258.3	15.5	16.7	59.4	34650.0	5.8	101.7	3	10	6	1	254.0	7	241.4	
AgVenture	AV5107AM	257.8	15.4	16.8	59.6	32175.0	7.6	101.5	4	1	8	15	262.3	1	235.3	233.4
Mid-Atlantic Seeds	MA8108	255.3	15.5	16.6	61.3	31900.0	2.2	100.6	5	13	13	13	247.8	11	227.2	
Seed Consultants	SC1093AM	252.7	15.6	16.3	59.1	31212.5	6.5	99.5	6	11	2	4	253.3	8	235.7	
Augusta	A1359	250.2	16.2	15.5	60.2	31212.5	2.3	98.5	7	4	10	2	254.6	5	238.7	
DeKalb	DKC61-41RIB (Check)	249.4	16.4	15.2	57.5	32037.5	6.1	98.2	8	5	7	10	254.6	6	233.3	
AgVenture	AV9610AM	248.6	16.2	15.4	59.6	31350.0	2.9	97.9	9	15	11	9	244.6	13	226.2	232.5
Dyna-Gro	D50VC09	247.8	16.2	15.3	58.3	30662.5	4.4	97.6	10	2	1	7	257.9	3	236.5	
Invision	FS 6017V RIB	240.7	16.1	15.0	58.6	31350.0	11.8	94.8	11	8	9	3	249.1	10	232.8	
Revere Seed	Revere 0918 VT2PRIB	240.4	15.6	15.4	59.2	30525.0	1.4	94.7	12	7	12	16	247.7	12	224.3	
Revere Seed	Revere 0707 DGV2PRIB	238.4	15.0	15.9	59.6	32175.0	2.2	93.9	13	14	16	8	238.1	15	221.5	
NK	NK1082-5222A	237.2	16.8	14.1	57.3	30387.5	10.4	93.4	14	16	15	17	234.9	16	214.5	219.5
Mid-Atlantic Seeds	MA8091	236.8	16.9	14.0	59.2	30250.0	6.6	93.3	15	6	3	14	251.9	9	228.4	230.2
AgVenture	AV4509AML	234.3	15.5	15.2	60.5	30800.0	5.7	92.3	16	12	14	12	238.9	14	221.0	
Seed Consultants	SC1053AM	217.4	14.7	14.8	58.2	30250.0	13.4	84.5	17	17	17	11	218.0	17	205.6	
	Check Avg.	253.9	16.2	15.7	58.5	31418.8	4.8									
	Test Avg.	246.1	15.8	15.6	59.2	31341.9	5.7									
	LSD (0.05)	14.9	0.7	1.3	1.1	NS	NS									
	% C.V.	4.1	2.9	5.6	1.1	4.7	96.6									
	Check Avg. + LSD (0.05)	268.8														

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

**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															
Brand	Hybrid	Yield Bu/A ¹	% Moisture	Yield/Moisture	Test Weight	Final Pop	% Stalk Lodging	% Relative Yield to Check Avg.	Performance Ranking for				Pooled sites		Two Year Yield Ave. Bu/A
									Laurel Irrigated	Georgetown Irrigated	Camden Wyoming Irrigated	Middletown Dryland	Irrigated Yield Avg. Bu/A	Rank	
Invision	FS 6424V RIB	276.8	17.5	15.9	59.9	32587.5	6.0	108.9	1	1	7	8	270.6	2	242.2
Mid-Atlantic Seeds	MA8145	270.4	17.4	15.6	60.5	31075.0	7.1	106.4	2	13	9	5	263.1	4	237.6
Seed Consultants	SC1112AM	270.3	16.8	16.1	60.0	31900.0	8.3	106.4	3	4	1	1	271.8	1	247.5
MorCorn	MC4311	263.2	17.2	15.3	59.3	30250.0	0.5	103.6	4	14	19	13	257.3	12	231.8
Augusta	1964	263.0	17.4	15.1	59.2	32312.5	4.7	103.5	5	19	17	17	256.9	13	230.3
DeKalb	DKC64-65RIB (Check)	257.1	17.7	14.6	59.4	31350.0	4.8	101.2	6	6	6	2	260.4	5	236.3
Mid-Atlantic Seeds	MA5124	256.8	17.7	14.5	59.3	31212.5	9.3	101.0	7	20	20	11	251.9	20	228.0
Dyna-Gro	D52VC63	255.2	17.7	14.4	59.3	31762.5	12.4	100.4	8	2	2	15	263.9	3	236.0
Dyna-Gro	D54VC34	253.9	17.8	14.3	59.7	31212.5	17.8	99.9	9	11	11	19	257.5	11	230.3
Dyna-Gro	D54VC14	253.1	16.7	15.2	60.8	30387.5	5.4	99.6	10	10	8	21	257.9	8	228.9
Mid-Atlantic Seeds	MA8110	252.6	17.0	14.9	59.6	29287.5	6.0	99.4	11	7	12	4	257.7	9	233.7
Dyna-Gro	D53TC23	252.4	16.8	15.1	59.3	29700.0	5.6	99.3	12	12	14	6	256.0	14	232.1
Revere Seed	Revere1307 TCRIB	252.1	17.1	14.8	59.0	30800.0	4.5	99.2	13	9	5	3	258.5	6	234.6
DeKalb	DKC65-95RIB (Check)	251.0	17.1	14.7	60.8	30800.0	5.1	98.8	14	21	21	9	249.0	21	226.0
MorCorn	MC4161	250.8	16.5	15.2	59.9	29700.0	4.1	98.7	15	16	4	7	258.0	7	233.7
Invision	FS 6306T RIB	250.8	17.0	14.8	59.3	30662.5	2.2	98.7	16	8	16	14	256.0	15	230.5
Revere Seed	Revere 1398 VT2PRIB	250.0	16.3	15.3	60.1	31350.0	8.7	98.4	17	17	3	20	257.5	10	228.8
Mid-Atlantic Seeds	MA8141	248.6	18.1	13.8	59.9	31075.0	1.4	97.8	18	18	10	22	253.9	18	225.2
Mid-Atlantic Seeds	MA8136	248.6	18.3	13.6	58.4	31212.5	1.8	97.8	19	15	13	10	254.2	17	229.8
AgVenture	AV7913AM	248.0	17.1	14.6	60.4	31075.0	7.2	97.6	20	5	18	16	254.7	16	228.9
AgVenture	AV4313AM	247.7	17.4	14.3	59.9	32312.5	10.7	97.5	21	3	22	12	252.2	19	228.0
Seed Consultants	SC1122Q	241.4	17.1	14.1	59.0	31900.0	6.9	95.0	22	22	15	18	246.1	22	221.9
	Check Avg.	254.1	17.3	14.6	60.1	31075.0	5.0								
	Test Avg.	255.2	17.3	14.8	59.7	31087.5	6.4								
	LSD (0.05)	16.6	0.7	1.1	0.8	NS	8.1								
	% C.V.	4.0	2.5	4.9	0.9	4.3	80.4								
	Check Avg. + LSD (0.05)	270.7													

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

Table 11. Irrigated Corn Hybrid Performance Summary
Plum Creek Farms, LLC (Sussex County) Laurel, Delaware

Planted 4/26/2022 & Harvested September 27, Medium Hybrids															
Brand	Hybrid	Yield Bu/A ¹	% Moisture	Yield/Moisture	Test Weight	Final Pop	% Stalk Lodging	% Relative Yield to Check Avg.	Performance Ranking for				Pooled sites		Two Year Yield Ave. Bu/A
									Laurel Irrigated	Georgetown Irrigated	Camden Wyoming Irrigated	Middletown Dryland	Irrigated Yield Avg. Bu/A	Rank	
Invision	FS 6595V RIB	268.4	17.7	15.2	59.2	32587.5	9.0	103.0	1	5	5	9	265.7	2	237.0
AgVenture	AV3917AM	267.7	19.6	13.7	58.9	31212.5	2.2	102.7	2	7	2	2	265.5	3	241.2
Seed Consultants	SC1183AM	266.6	18.5	14.4	58.5	31487.5	1.3	102.3	3	9	4	1	262.5	4	241.1
Dyna-Gro	D55VC80	264.7	18.1	14.6	58.9	32587.5	4.7	101.6	4	1	1	4	272.3	1	244.4
DeKalb	DKC70-27RIB (Check)	263.7	18.7	14.1	59.6	30387.5	1.4	101.2	5	2	10	13	261.9	5	233.5
Dyna-Gro	D58VC65 (Check)	257.5	18.1	14.3	60.6	32037.5	1.7	98.8	6	6	9	11	258.0	8	230.9
Seed Consultants	SC1170AM	257.5	17.7	14.6	59.8	31625.0	4.3	98.8	7	13	7	6	253.5	10	229.4
NK	NK1677-3110	256.9	18.6	13.8	58.3	31487.5	0.5	98.6	8	10	14	15	248.9	12	222.1
AgVenture	AV9916AM	254.9	18.8	13.6	58.6	31900.0	0.0	97.8	9	8	3	3	259.5	7	235.4
NK	NK1748-3110	253.1	19.5	13.0	57.8	28875.0	1.5	97.1	10	3	6	7	260.0	6	233.7
Mid-Atlantic Seeds	MA5155	251.2	19.0	13.3	60.3	32037.5	2.6	96.4	11	4	11	14	255.2	9	228.0
Augusta	A1465	246.2	17.1	14.5	61.0	29562.5	4.6	94.5	12	12	12	10	246.1	13	222.0
MorCorn	MC4725	242.5	19.1	12.7	59.4	31900.0	13.8	93.0	13	11	8	12	249.3	11	224.4
MorCorn	MC4527	238.0	17.4	13.7	60.3	28737.5	3.7	91.3	14	14	13	8	242.7	14	220.6
NK	NK1701-3220	226.1	18.6	12.2	56.6	32725.0	4.6	86.8	15	15	15	5	223.8	15	208.1
	Check Avg.	260.6	18.4	14.2	60.1	31212.5	1.6								
	Test Avg.	254.3	18.4	13.8	59.2	31276.7	3.7								
	LSD (0.05)	15.9	0.5	1.0	0.8	2400.1	7.2								
	% C.V.	4.0	1.7	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

Table 12. Irrigated Corn Hybrid Performance Summary
Carvel RResearch & Education Center (Sussex County) Georgetown, Delaware

Planted 4/25/2022 & Harvested September 20, Early Hybrids																
Brand	Hybrid	Yield Bu/A	% Moisture	Yield/Moisture	Test Weight	Final Pop	% Stalk Lodging	% Relative Yield to Check Avg.	Performance Ranking for				Pooled sites		Two Year Yield Ave. Bu/A	
									Georgetown Irrigated	Laurel Irrigated	Camden Wyoming Irrigated	Middletown Dryland	Irrigated Yield Avg. Bu/A	Rank		Pooled Yield Ave. Bu/A
AgVenture	AV5107AM	269.6	19.7	13.7	55.2	32175.0	NA	109.1	1	4	8	15	262.3	1	235.3	233.4
Dyna-Gro	D50VC09	257.4	21.1	12.2	54.3	33000.0	NA	104.2	2	10	1	7	257.9	3	236.5	
Seed Consultants	SC1071AM	256.8	19.6	13.1	55.3	33275.0	NA	103.9	3	1	4	6	260.9	2	238.9	237.1
Augusta	A1359	255.9	19.4	13.2	57.3	31212.5	NA	103.6	4	7	10	2	254.6	5	238.7	
DeKalb	DKC61-41RIB (Check)	251.3	20.6	12.2	53.9	33000.0	NA	101.7	5	8	7	10	254.6	6	233.3	
Mid-Atlantic Seeds	MA8091	251.0	21.2	11.9	55.8	32175.0	NA	101.6	6	15	3	14	251.9	9	228.4	230.2
Revere Seed	Revere 0918 VT2PRIB	248.9	20.1	12.4	56.0	29700.0	NA	100.7	7	12	12	16	247.7	12	224.3	
Invision	FS 6017V RIB	248.5	20.3	12.3	55.0	31900.0	NA	100.6	8	11	9	3	249.1	10	232.8	
DeKalb	DKC62-53RIB (Check)	242.8	20.5	11.9	55.9	30937.5	NA	98.3	9	2	5	5	255.5	4	236.6	
AgVenture	AV6010AM	240.0	19.9	12.1	54.8	33825.0	NA	97.1	10	3	6	1	254.0	7	241.4	
Seed Consultants	SC1093AM	239.6	20.0	12.0	54.8	31762.5	NA	96.9	11	6	2	4	253.3	8	235.7	
AgVenture	AV4509AML	236.7	19.3	12.3	57.1	31625.0	NA	95.8	12	16	14	12	238.9	14	221.0	
Mid-Atlantic Seeds	MA8108	236.3	19.2	12.3	58.2	31625.0	NA	95.6	13	5	13	13	247.8	11	227.2	
Revere Seed	Revere 0707 DGVT2PRIB	236.2	18.4	12.8	56.8	33550.0	NA	95.6	14	13	16	8	238.1	15	221.5	
AgVenture	AV9610AM	231.1	20.0	11.6	55.8	30800.0	NA	93.5	15	9	11	9	244.6	13	226.2	232.5
NK	NK1082-5222A	222.0	20.8	10.7	53.9	31075.0	NA	89.8	16	14	15	17	234.9	16	214.5	219.5
Seed Consultants	SC1053AM	210.3	18.3	11.5	55.5	30937.5	NA	85.1	17	17	17	11	218.0	17	205.6	
Check Avg.		247.1	20.5	12.1	54.9	31968.8										
Test Avg.		243.2	19.9	12.2	55.6	31916.2										
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														

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

Table 13. Irrigated Corn Hybrid Performance Summary

Carvel Research & Education Center (Sussex County) Georgetown, Delaware

Planted 4/25/2022 & Harvested September 20, Early-Medium Hybrids															
Brand	Hybrid	Yield Bu/A ¹	% Moisture	Yield/Moisture	Test Weight	Final Pop	% Stalk Lodging	% Relative Yield to Check Avg.	Performance Ranking for				Pooled sites		Two Year Yield Ave. Bu/A
									Georgetown Irrigated	Laurel Irrigated	Camden Wyoming Irrigated	Middletown Dryland	Irrigated Yield Avg. Bu/A	Rank	
Invision	FS 6424V RIB	258.9	21.0	12.4	56.6	32862.5	NA	106.7	1	1	7	8	270.6	2	242.2
Dyna-Gro	D52VC63	252.8	21.5	11.8	55.6	33137.5	NA	104.2	2	8	2	15	263.9	3	236.0
AgVenture	AV4313AM	251.9	21.1	11.9	55.4	32587.5	NA	103.8	3	21	22	12	252.2	19	228.0
Seed Consultants	SC1112AM	251.5	20.3	12.4	56.1	32862.5	NA	103.7	4	3	1	1	271.8	1	247.5
AgVenture	AV7913AM	248.4	20.4	12.2	57.3	30250.0	NA	102.4	5	20	18	16	254.7	16	228.9
DeKalb	DKC64-65RIB (Check)	248.2	21.5	11.5	55.7	31762.5	NA	102.3	6	6	6	2	260.4	5	236.3
Mid-Atlantic Seeds	MA8110	247.8	21.0	11.8	55.6	30800.0	NA	102.2	7	11	12	4	257.7	9	233.7
Invision	FS 6306T RIB	247.3	20.8	11.9	55.6	31762.5	NA	101.9	8	16	16	14	256.0	15	230.5
Revere Seed	Revere1307 TCRIB	247.1	20.1	12.3	56.5	31075.0	NA	101.9	9	13	5	3	258.5	6	234.6
Dyna-Gro	D54VC14	245.5	20.4	12.0	57.5	30800.0	NA	101.2	10	10	8	21	257.9	8	228.9
Dyna-Gro	D54VC34	245.3	22.4	11.0	56.0	31350.0	NA	101.1	11	9	11	19	257.5	11	230.3
Dyna-Gro	D53TC23	245.0	20.7	11.9	55.9	31075.0	NA	101.0	12	12	14	6	256.0	14	232.1
Mid-Atlantic Seeds	MA8145	244.1	21.0	11.6	56.7	31350.0	NA	100.6	13	2	9	5	263.1	4	237.6
MorCORN	MC4311	242.6	21.0	11.6	55.6	30525.0	NA	100.0	14	4	19	13	257.3	12	231.8
Mid-Atlantic Seeds	MA8136	241.9	22.0	11.0	54.7	29975.0	NA	99.7	15	19	13	10	254.2	17	229.8
MorCORN	MC4161	240.7	20.3	11.9	56.3	30525.0	NA	99.2	16	15	4	7	258.0	7	233.7
Revere Seed	Revere 1398 VT2PRIB	239.4	21.6	11.1	55.5	33137.5	NA	98.7	17	17	3	20	257.5	10	228.8
Mid-Atlantic Seeds	MA8141	238.7	22.9	10.4	55.2	32037.5	NA	98.4	18	18	10	22	253.9	18	225.2
Augusta	1964	238.6	21.2	11.3	56.0	33000.0	NA	98.4	19	5	17	17	256.9	13	230.3
Mid-Atlantic Seeds	MA5124	237.4	21.4	11.1	55.9	32587.5	NA	97.8	20	7	20	11	251.9	20	228.0
DeKalb	DKC65-95RIB (Check)	237.0	20.8	11.4	57.9	30937.5	NA	97.7	21	14	21	9	249.0	21	226.0
Seed Consultants	SC1122Q	226.8	20.0	11.4	55.7	30937.5	NA	93.5	22	22	15	18	246.1	22	221.9
	Check Avg.	242.6	21.2	11.6	56.8	31350.0									
	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

NS = not statistically significant at a 5% probability level

Table 14. Irrigated Corn Hybrid Performance Summary
Carvel Research & Education Center (Sussex County) Georgetown, Delaware

Planted 4/25/2022 & Harvested September 20, Medium Hybrids										Performance Ranking for				Pooled sites		Two Year Yield Ave. Bu/A
Brand	Hybrid	Yield Bu/A	% Moisture	Yield/Moisture	Test Weight	Final Pop	% Stalk Lodging	% Relative Yield to Check Avg.	Georgetown Irrigated	Laurel Irrigated	Camden Wyoming Irrigated	Middletown Dryland	Irrigated Yield Avg. Bu/A	Rank	Pooled Yield Ave. Bu/A	
Dyna-Gro	D55VC80	258.9	21.1	12.3	55.6	34375.0	NA	102.0	1	4	1	4	272.3	1	244.4	235.8
DeKalb	DKC70-27RIB (Check)	257.2	22.8	11.3	55.7	31625.0	NA	101.4	2	5	10	13	261.9	5	233.5	
NK	NK1748-3110	252.4	22.0	11.5	54.4	31075.0	NA	99.5	3	10	6	7	260.0	6	233.7	232.5
Mid-Atlantic Seeds	MA5155	251.8	22.5	11.2	56.2	32175.0	NA	99.2	4	11	11	14	255.2	9	228.0	228.9
Invision	FS 6595V RIB	251.7	20.7	12.2	56.3	32312.5	NA	99.2	5	1	5	9	265.7	2	237.0	
Dyna-Gro	D58VC65 (Check)	250.2	21.3	11.8	56.9	32587.5	NA	98.6	6	6	9	11	258.0	8	230.9	
AgVenture	AV3917AM	247.2	21.8	11.4	56.4	33412.5	NA	97.4	7	2	2	2	265.5	3	241.2	236.4
AgVenture	AV9916AM	244.2	21.5	11.4	55.4	32450.0	NA	96.3	8	9	3	3	259.5	7	235.4	
Seed Consultants	SC1183AM	243.0	21.3	11.4	55.8	32312.5	NA	95.8	9	3	4	1	262.5	4	241.1	
NK	NK1677-3110	242.2	22.0	11.0	54.6	32312.5	NA	95.5	10	8	14	15	248.9	12	222.1	
MorCorn	MC4725	238.9	21.4	11.2	56.7	31900.0	NA	94.1	11	13	8	12	249.3	11	224.4	230.6
Augusta	A1465	236.3	20.4	11.6	57.3	30525.0	NA	93.2	12	12	12	10	246.1	13	222.0	
Seed Consultants	SC1170AM	236.2	21.3	11.1	55.8	31762.5	NA	93.1	13	7	7	6	253.5	10	229.4	
MorCorn	MC4527	235.0	19.9	11.9	57.8	31212.5	NA	92.6	14	14	13	8	242.7	14	220.6	
NK	NK1701-3220	221.7	21.4	10.4	53.2	34100.0	NA	87.4	15	15	15	5	223.8	15	208.1	
Check Avg.		253.7	22.0	11.5	56.3	32106.3										
Test Avg.		244.5	21.4	11.4	55.9	32275.8										
LSD (0.05)		14.5	0.8	0.7	0.6	1627.4										
% C.V.		3.9	2.4	4.2	0.7	3.2										
Check Avg. + LSD (0.05)		268.2														

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