DELAWARE HYBRID FIELD CORN PERFORMANCE TRIALS



2020

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

Test plot locations



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DELAWARE HYBRID FIELD CORN PERFORMANCE TRIALS - 2020

The 2020 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. Sixty-five 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 Carvel Research & Education Center at **Georgetown**, DE (lateral move irrigation). Hybrids were divided into three relative maturity groups; early 101-110 (23 entries), early-medium 111-114 (27 entries) and medium 115-120 days (15 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 (<u>http://www.deos.udel.edu</u>). The raw data used to plot the Growing Degree Day (GDD) and rainfall graphs is presented in Table 2. The GDD was calculated by subtracting 50 from the average daily temperature ((Max. Temp + Min. Temp)/2)-50). If the daily high temperature was greater than 86 degrees Fahrenheit, then 86 degrees is used and if the daily low was less than 50 degrees then 50 degrees Fahrenheit was used to calculate the average. The weather data for Emerson Farms, Middletown was taken from Townsend, DE-REC, for Thomas Family Farms, Marydel 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 <u>not</u> 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 2020 growing season was characterized by cold weather and wet conditions during planting. The high moisture received in July and August may have affected the soil nutrient level due to leaching. There was stalk and root lodging due to the wind damage from hurricane Isaias particularly at Laurel irrigated location. In 2020, the Delaware corn hybrid performance yield tests averaged 198, 200 and 215 bu/A compared to the 2019 yield which averaged 235, 248 and 253 bu/A across the three irrigated locations for the early, early-medium and medium maturity groups, respectively. In the dryland location, average yields in 2020 were 182, 192 and 198 bu/A for the early, early-medium and medium maturity groups, respectively. The corresponding average yields in 2019 was 198, 202 and 167 bu/A for the early, early-medium and medium maturity groups, respectively. The results of our yield test shows that the grain yield averaged across locations and maturity groups in 2020 was 9% less than in 2019.

Middletown: The average soil temperature at Townsend, DE-REC the nearest station to Emerson Farms, New Castle County; dryland, no-till in April was 52.2 °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 117.4 GDD was accumulated in the ten days after planting (May 13) 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 2341-2577, 2595-2676 and 2702-2803, respectively (Figure 1).

Middletown, the dryland location received a total of 1.13, 2.1, 6.33 and 11.02 inches of rainfall in May, June, July and August. It received 3.6 and 0.97 inches of rainfall from July 6-July 13 and July 21-24, respectively. This rainfall have helped offset the impact of drought on all maturity groups. This location have received 7.25 inches of rainfall from July 30-August 7 and this amount of rainfall have helped for the full ear development. The daily rainfall received from planting to harvest period shows days without or some amount of rain (Figure 2). This dryland location received enough rain during the flowering period and ear development.





Yields at the Middletown location averaged 182, 192 and 198 bu/A for the early, early-medium and medium maturity groups, respectively, compared to the check means of 196, 193 and 209 bu/A, respectively (Tables 3, 4 and 5). There were significant differences among hybrids for yield, grain moisture, yield/moisture, test weight and plant population for the early, early-medium and medium maturity groups. In the early maturity group, there was significant difference among hybrids for root lodging. Overall there was a minor stalk and root lodging across all the maturity groups.

Marydel: The average soil temperature at Dover, DE-SFS the nearest station to Thomas Family Farms, Kent County irrigated location in April was 54.3 °F. This soil temperature is above the minimum 50 °F soil temperature required for corn germination. A 110.4 GDD was accumulated in the ten days after planting (May 12) 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 2365-2610, 2630-2701 and 2730-2841, respectively (Figure 3). Marydel received a total of 2.2, 2.06, 8.94 and 11.65 inches of rainfall in May, June, July and August, respectively. In this location July 14-20 and 25-29 were without rainfall (Figure 4).





Yields at the Marydel location averaged 211, 214 and 227 bu/A for the early, early-medium, and medium maturity groups, respectively, compared to the check means of 230, 204 and 236 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 also significant difference in stalk and root lodging for the early and early-medium maturity groups. In this testing location there was some stalk and root lodging on few of the hybrids due to a wind damage from hurricane Isaias particularly on the early and early-medium 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 56.2 °F. This soil temperature is above the minimum 50 °F soil temperature required for corn germination. A 96.3 GDD was accumulated in the ten days after planting (May 8) 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 2289-2513, 2536-2621 and 2642-2773, respectively (Figure 5). Laurel received a total of 1.74, 2.82, 5.36 and 8.29 inches of rainfall in May, June, July and August, respectively. This location received 0.07 inches of rainfall from July 11-23 (Figure 6).



Yields at the Laurel location averaged 199, 199 and 209 bu/A for the early, early-medium and medium maturity groups, respectively, compared to the check means of 213, 194 and 230 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-medium maturity group, there was significant difference in plant population, stalk and root lodging among hybrids. Also in the early and medium maturity groups there was significant difference in stalk and root lodging, respectively. This particular location was affected by the wind damage from hurricane Isaias.

Georgetown: The average soil temperature at Georgetown, Carvel Research & Education Center, Sussex County; irrigated location in April was 54.4 °F. This soil temperature is above the minimum 50 °F soil temperature required for corn germination. A 100.1 GDD was accumulated in the ten days after planting (May 11) 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 2365-2605, 2633-2701 and 2728-2844, respectively (Figure 7). Georgetown received a total of 1.55, 2.53, 5.78, and 5.71 inches of rainfall in May, June, July, and August, respectively. This location received 0.17 inches of rainfall from July 11-30 (Figure 8).





Yields at the Georgetown location averaged 185, 186 and 208 bu/A for the early, early-medium and medium maturity groups, respectively, compared to the check means of 208, 198 and 215 bu/A, respectively (Tables 12, 13 and 14). There were significant differences among hybrids in yield, grain moisture, yield/moisture and test weight across all maturity groups. There was significant difference in plant population and stalk lodging for the early and early-medium maturity groups. Also there was a significant difference in root lodging for the early maturity group.

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 – Marydel (Irrigated)	Plum Creek Farms, LLC – Laurel (Irrigated)	Carvel REC - Georgetown (Irrigated)
Number of entries	65	65	65	65
Number of maturities	3	3	3	3
Target Population plants/A	28,000	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	May 13	May 12	May 8	May 11
Harvest date	October 6	October 8	September 17	September 23
Soil type	Matapeake silt loam	Sandy loam	Sandy loam	Rosedale loamy sand
Previous crop	Soybean	Soybean	Sweet corn	Soybean
Cover crop	None	None	Rye	None
Tillage practices	No till	Ripped, field cultivator	No till	Chisel plow, disk, 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 & 36 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_2O) starter 2"x2" (32 lb N & 36 lb P). At V4-V5 stage side-dressed with 70 gallons/A of 27-0-0-6s (203 lb N) and 10 GPA of 32% UAN (30 lbs N2) fertigated.	3 tons/A of chicken manure. 15 gallons/A of 20-10-0-1s (N-P ₂ O ₅ - K_2O) starter 2"x2" (32 lb N & 36 lb P). At V4 –V5 stage side-dressed with 70 gallons/A of 27-0-0-6s (203 lb N) and 10 GPA of 32% UAN (30 lb N) fertigated.	15 gallons/A of 20-10-0-1s (N- P ₂ O ₅ -K ₂ O) starter 2"x2" (32 lb N & 36 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	Relative Maturity Day	Maturity Group
Syngenta - NK	NK1082-5222	Agrisure 5222	Avicta Complete + Vibrance	110	Early
Mid-Atlantic Seeds	MA8039VT2P	VT2P	A250	103	Early
Mid-Atlantic Seeds	MA8091VT2P	VT2P	A250	109	Early
Mid-Atlantic Seeds	MA8106VT2P	VT2P	A250	110	Early
Mid-Atlantic Seeds	MA8066SS	SS	A500	106	Early
MorCorn	MC3952	VT2P	Poncho 1250	109	Early
Local Seed	LC0297 SSX	SmartStax	Radius 500	102	Early
Local Seed	LC0999 VT2PRIB	VT2P	Radius 500	109	Early
Local Seed	LC0607 TCRIB	Trecepta	Radius 500	106	Early
Local Seed	LC1009 VT2PRIB	VT2P	Radius 500	110	Early
Blue River Organic Seed	48G35		Maxim XL	102	Early
Blue River Organic Seed	51T59		Maxim XL	103	Early
Blue River Organic Seed	54C27		Maxim XL	105	Early
Blue River Organic Seed	57A30		Maxim XL	107	Early
Seed Consultants	SCS 1069AM	AM/LL/RR	Poncho/Votivo 500	106	Early
Seed Consultants	SCS 1071AM	AM/LL/RR	Poncho/Votivo 500	107	Early
Seed Consultants	SCS 1087AM	AM/LL/RR	Poncho/Votivo 500	108	Early
LG Seeds	LG57C97VT2PRO	VT2PRO	Poncho/Votivo 500	107	Early
LG Seeds	LG59C72VT2RIB	VT2RIB	Poncho/Votivo 500	109	Early
AgVenture	AV7408AM	YGCB, HX1, LL, RR2		108	Early
AgVenture	AV7808AM	YGCB, HX1, LL, RR2		108	Early
AgVenture	AV6409AM	YGCB, HX1, LL, RR2		109	Early
AgVenture	AV4810AM	YGCB, HX1, LL, RR2		110	Early
DeKalb	DKC62-53RIB (Check)	VT Double Pro		112	Early
Dyna-Gro	D52VC63 (Check)	VT Double Pro		112	Early
Syngenta - NK	NK1239-5122	Agrisure 5122	Avicta Complete corn + Vibrance	112	Early-Medium
Syngenta - NK	NK1460-5222	Agrisure 5122	Avicta Complete corn + Vibrance	114	Early-Medium
Mid-Atlantic Seeds	MA8117TRE	Trecepta	A250	111	Early-Medium
Mid-Atlantic Seeds	MA8128VT2P	VT2P	A250	112	Early-Medium
Mid-Atlantic Seeds	MA8141DGVT2P	DGVT2P	A250	114	Early-Medium

MorCorn	MC4255	VT2P	Poncho 1250	112	Early-Medium
MorCorn	MC4319	VT2P	Poncho 1250	113	Early-Medium
Local Seed	LC1407 VTRIB	VT2P	Radius 500	114	Early-Medium
Local Seed	LC1207 TCRIB	Trecepta	Radius 500	112	Early-Medium
Local Seed	LC1289 VT2PRIB	VT2P	Radius 500	112	Early-Medium
Local Seed	LC1398 VT2PRIB	VT2P	Radius 500	113	Early-Medium
Local Seed	LC1488 VT2PRIB	VT2P	Radius 500	114	Early-Medium
Local Seed	LC1497 DGVT2PRIB	Drought Gard/VT2P	Radius 500	114	Early-Medium
Blue River Organic Seed	64K93		Maxim XL	111	Early-Medium
Blue River Organic Seed	66G25		Maxim XL	112	Early-Medium
Blue River Organic Seed	68C37		Maxim XL	113	Early-Medium
Blue River Organic Seed	70A47		Maxim XL	114	Early-Medium
Seed Consultants	SCS 1111Q	Q/LL/RR	Poncho/Votivo 500	111	Early-Medium
Seed Consultants	SCS 1121 AM	AM/LL/RR	Poncho/Votivo 500	112	Early-Medium
Seed Consultants	SCS 1141 AM	AM/LL/RR	Poncho/Votivo 500	114	Early-Medium
LG Seeds	LG60C47 STX Rib	STX RIB	Poncho/Votivo 500	110	Early-Medium
LG Seeds	LG62C02 VT2RIB	VT2RIB	Poncho/Votivo 500	112	Early-Medium
Mission Seed Solutions	A1257VT2P	VT2P	Acceleron 250	112	Early-Medium
AgVenture	AV5911AM	YGCB, HX1, LL, RR2		111	Early-Medium
AgVenture	AV4313AM	YGCB, HX1, LL, RR2		113	Early-Medium
AgVenture	AV8614AM	YGCB, HX1, LL, RR2		114	Early-Medium
AgVenture	AV8714AM	YGCB, HX1, LL, RR2		114	Early-Medium
DeKalb	DKC65-95RIB (Check)	VT Double Pro		115	Early-Medium
Dyna-Gro	D54VC52 (Check)	VT Double Pro		114	Early-Medium
Mid-Atlantic Seeds	MA5155GT3VIP	GT3VIP	Cruiser 250	115	Medium
Mid-Atlantic Seeds	MA8158SS	SS	A500	115	Medium
MorCorn	MC4670	Trecepta	Poncho 500	116	Medium
MorCorn	MC4725	VT2P	Poncho 1250	117	Medium
Local Seed	LC1577 VT2PRIB	VT2P	Radius 500	115	Medium
Local Seed	LC1697 VT2PRIB	VT2P	Radius 500	116	Medium
Local Seed	LCX1806 VT2PRIB	VT2P	Radius 500	118	Medium
Local Seed	LC1898 TC	Trecepta	Radius 500	118	Medium
Seed Consultants	SCS 1158 AM	AM/LL/RR	Poncho/Votivo 500	115	Medium

Seed Consultants	SCS 1188 AM	AM/LL/RR	Poncho/Votivo 500	118	Medium
LG Seeds	LG5643 VT2RIB	STX RIB	Poncho/Votivo 500	114	Medium
LG Seeds	LG66C32 VT2RIB	VT2RIB	Poncho/Votivo 500	116	Medium
Mission Seed Solutions	A1548DGVT2P	VT2P	Acceleron 250	115	Medium
Mission Seed Solutions	A1857VT2P	VT2P	Acceleron 250	118	Medium
Mission Seed Solutions	A7516Q	Qrome	Poncho 500	116	Medium
DeKalb	DKC70-27RIB (Check)	VT Double Pro		120	Medium
Dyna-Gro	D58VC65 (Check)	VT Double Pro		118	Medium

Hybrid genetic traits, insect targets and herbicide tolerance

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
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
DGVT2P	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
Seed Consultants, Inc.	648 Miami Trace Road SW, Washington Court House, OH 43160	570-980-3906	www.seedconsultants.com
Mid-Atlantic Seeds	316 N. Albemarle St. York, PA 17403	717-852-8894	www.midatlanticseeds.com
Blue River Organic Seed	2326 230th St. Ames, IA 50014	800-370-7979	www.blueriverorgseed.com
Innvictis Crop Care & Mission Seed Solutions	1880 Fall River Drive Loveland, CO 80538	844-669-7333	www.innvictis.com
East Coast Seed	17741 Davis Rd Geogetown, 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	4725 Windward Concourse Suite 410 Alpharetta, GA 31047	478-957-9865	www.morecorn.com
Phoenix	201 E. John Carpenter Fwy, Suite 660 Irving, TX 75062	855-210-0569	www.phoenixcorn.com
Syngenta	4013 Faimount Pike, Signal Mountain, TN 37377	717-951-2730	www.syngenta-us.com

Ctation	Manth	Data	Davi	Daily	Cummulative	Daily	Station	Manth	Data	Davi	Daily	Cummulative	· ·
Station	Month	Date	Day	GDD	GDD	Rainfall	Station	Month	Date	Day	GDD	GDD	Rainfall
Townsend	Мау	13	1	8.5	8.5	0	Townsend	June	1	20	11.4	295.5	0
Townsend	May	14	2	11.2	19.6	0	Townsend	June	2	21	12.9	308.3	0
Townsend	May	15	3	24.5	44.1	0	Townsend	June	3	22	25.4	333.7	0
Townsend	May	16	4	17.6	61.7	0	Townsend	June	4	23	24.8	358.5	0.55
Townsend	May	17	5	8.6	70.3	0	Townsend	June	5	24	27.1	385.6	0.39
Townsend	May	18	6	9.7	80.0	0	Townsend	June	6	25	27.7	413.3	0
Townsend	May	19	7	9.3	89.2	0	Townsend	June	7	26	18.5	431.8	0
Townsend	May	20	8	6.1	95.3	0	Townsend	June	8	27	15.5	447.2	0
Townsend	May	21	9	10.1	105.4	0	Townsend	June	9	28	21.3	468.5	0
Townsend	May	22	10	12.0	117.4	0.63	Townsend	June	10	29	29.4	497.9	0
Townsend	May	23	11	19.3	136.6	0.5	Townsend	June	11	30	27.0	524.9	0.53
Townsend	May	24	12	10.8	147.4	0	Townsend	June	12	31	25.1	550.0	0
Townsend	May	25	13	13.5	160.9	0	Townsend	June	13	32	15.9	565.8	0
Townsend	May	26	14	15.0	175.9	0	Townsend	June	14	33	16.1	581.9	0
Townsend	May	27	15	18.5	194.4	0	Townsend	June	15	34	15.6	597.5	0
Townsend	May	28	16	24.2	218.6	0	Townsend	June	16	35	16.9	614.4	0
Townsend	May	29	17	28.3	246.9	0	Townsend	June	17	36	17.2	631.6	0.04
Townsend	May	30	18	23.8	270.6	0	Townsend	June	18	37	22.3	653.9	0.01
Townsend	May	31	19	13.5	284.1	0	Townsend	June	19	38	21.6	675.5	0
							Townsend	June	20	39	21.8	697.2	0.14
							Townsend	June	21	40	23.5	720.7	0.01
							Townsend	June	22	41	26.8	747.4	0
							Townsend	June	23	42	25.8	773.2	0
							Townsend	June	24	43	28.1	801.2	0
							Townsend	June	25	44	25.0	826.2	0.24
							Townsend	June	26	45	23.4	849.6	0
							Townsend	June	27	46	26.7	876.3	0.02
							Townsend	June	28	47	27.2	903.5	0.17
							Townsend	June	29	48	26.2	929.7	0
							Townsend	June	30	49	25.6	955.2	0

Table 2. Growing degree day (GDD) and rainfall at or nearest test locations for the 2020 Delaware corn hybrid performance test

				Daily	Cummulative	Daily					Daily	Cummulative	,
Station	Month	Date	Day	GDD	GDD	Rainfall	Station	Month	Date	Day	GDD	GDD	Rainfall
Townsend	July	1	50	25.1	980.3	1.3	Townsend	August	1	81	27.4	1831.9	0
Townsend	July	2	51	24.7	1005.0	0	Townsend	August	2	82	30.7	1862.5	0
Townsend	July	3	52	26.7	1031.6	0	Townsend	August	3	83	29.0	1891.5	0.1
Townsend	July	4	53	27.3	1058.9	0	Townsend	August	4	84	26.1	1917.6	5.41
Townsend	July	5	54	28.4	1087.3	0	Townsend	August	5	85	26.3	1943.8	0.02
Townsend	July	6	55	27.3	1114.5	0.69	Townsend	August	6	86	24.9	1968.7	0.43
Townsend	July	7	56	26.2	1140.7	0.35	Townsend	August	7	87	26.0	1994.7	0.83
Townsend	July	8	57	28.7	1169.4	0	Townsend	August	8	88	26.3	2021.0	0
Townsend	July	9	58	27.4	1196.7	0	Townsend	August	9	89	27.2	2048.2	0
Townsend	July	10	59	25.3	1222.0	2.39	Townsend	August	10	90	29.0	2077.2	0
Townsend	July	11	60	28.0	1249.9	0	Townsend	August	11	91	29.2	2106.4	0
Townsend	July	12	61	26.6	1276.5	0	Townsend	August	12	92	29.2	2135.6	0.76
Townsend	July	13	62	26.0	1302.5	0.17	Townsend	August	13	93	25.2	2160.7	0.81
Townsend	July	14	63	24.6	1327.0	0	Townsend	August	14	94	26.8	2187.5	0
Townsend	July	15	64	24.7	1351.7	0	Townsend	August	15	95	23.0	2210.5	0.01
Townsend	July	16	65	23.3	1375.0	0	Townsend	August	16	96	18.6	2229.1	1
Townsend	July	17	66	28.0	1402.9	0	Townsend	August	17	97	21.3	2250.4	0
Townsend	July	18	67	27.8	1430.7	0	Townsend	August	18	98	23.0	2273.3	0
Townsend	July	19	68	27.6	1458.3	0	Townsend	August	19	99	23.6	2296.9	0.08
Townsend	July	20	69	31.4	1489.6	0	Townsend	August	20	100	22.0	2318.9	0
Townsend	July	21	70	29.5	1519.1	0.17	Townsend	August	21	101	22.6	2341.4	0
Townsend	July	22	71	28.7	1547.8	0.63	Townsend	August	22	102	27.5	2368.9	0
Townsend	July	23	72	28.3	1576.1	0.03	Townsend	August	23	103	27.3	2396.2	0.21
Townsend	July	24	73	29.0	1605.1	0.14	Townsend	August	24	104	26.4	2422.6	0.01
Townsend	July	25	74	28.4	1633.4	0	Townsend	August	25	105	29.2	2451.7	0.01
Townsend	July	26	75	29.8	1663.2	0	Townsend	August	26	106	22.7	2474.4	0
Townsend	July	27	76	28.6	1691.8	0	Townsend	August	27	107	27.5	2501.8	0
Townsend	July	28	77	30.1	1721.9	0	Townsend	August	28	108	28.3	2530.1	0.9
Townsend	July	29	78	29.1	1751.0	0	Townsend	August	29	109	27.6	2557.7	0.44
Townsend	July	30	79	28.3	1779.2	0.03	Townsend	August	30	110	19.7	2577.4	0
Townsend	July	31	80	25.3	1804.5	0.43	Townsend	August	31	111	17.7	2595.1	0

				Daily	Cummulative	Daily					Daily	Cummulative	· ·
Station	Month	Date	Day	GDD	GDD	Rainfall	Station	Month	Date	Day	GDD	GDD	Rainfall
Townsend	September	1	112	23.8	2618.8	0	Townsend	October	1	142	13.0	3141.8	0.19
Townsend	September	2	113	28.6	2647.4	0.36	Townsend	October	2	143	8.7	3150.5	0.13
Townsend	September	3	114	28.3	2675.7	0.05	Townsend	October	3	144	7.5	3158.0	0
Townsend	September	4	115	26.6	2702.3	0.02	Townsend	October	4	145	9.2	3167.2	0
Townsend	September	5	116	17.9	2720.1	0	Townsend	October	5	146	7.9	3175.1	0.02
Townsend	September	6	117	19.8	2739.9	0	Townsend	October	6	147	10.4	3185.5	0
Townsend	September	7	118	18.5	2758.4	0							
Townsend	September	8	119	22.2	2780.5	0							
Townsend	September	9	120	22.2	2802.7	0.2							
Townsend	September	10	121	27.2	2829.9	1.28							
Townsend	September	11	122	22.9	2852.8	0.01							
Townsend	September	12	123	16.2	2868.9	0							
Townsend	September	13	124	19.2	2888.1	0							
Townsend	September	14	125	17.8	2905.9	0							
Townsend	September	15	126	8.5	2914.4	0							
Townsend	September	16	127	11.5	2925.8	0							
Townsend	September	17	128	16.7	2942.5	0.18							
Townsend	September	18	129	14.1	2956.5	0.03							
Townsend	September	19	130	7.0	2963.5	0							
Townsend	September	20	131	7.2	2970.7	0							
Townsend	September	21	132	7.6	2978.3	0							
Townsend	September	22	133	10.9	2989.1	0							
Townsend	September	23	134	15.2	3004.3	0							
Townsend	September	24	135	12.7	3017.0	0							
Townsend	September	25	136	13.0	3030.0	0							
Townsend	September	26	137	19.0	3048.9	1.37							
Townsend	September	27	138	22.1	3071.0	0.14							
Townsend	September	28	139	24.7	3095.7	0.02							
Townsend	September	29	140	19.9	3115.5	0.39							
Townsend	September	30	141	13.4	3128.9	0.36							

				Daily	Cummulative	Daily					Daily	Cummulative	,
Station	Month	Date	Day	GDD	GDD	Rainfall	Station	Month	Date	Day	GDD	GDD	Rainfall
Dover	May	12	1	4.9	4.9	0	Dover	June	1	21	11.0	300.3	0
Dover	May	13	2	8.9	13.8	0	Dover	June	2	22	14.2	314.5	0
Dover	May	14	3	11.8	25.6	0	Dover	June	3	23	25.6	340.1	0
Dover	May	15	4	24.8	50.4	0	Dover	June	4	24	25.6	365.7	0.62
Dover	May	16	5	18.9	69.2	0	Dover	June	5	25	27.4	393.1	0.14
Dover	May	17	6	8.4	77.6	0	Dover	June	6	26	27.9	421.0	0.01
Dover	May	18	7	10.1	87.7	0	Dover	June	7	27	20.1	441.1	0
Dover	May	19	8	10.1	97.7	0	Dover	June	8	28	16.5	457.6	0
Dover	May	20	9	4.6	102.3	0	Dover	June	9	29	20.9	478.4	0
Dover	May	21	10	8.2	110.4	0	Dover	June	10	30	29.2	507.6	0
Dover	May	22	11	15.3	125.7	0.77	Dover	June	11	31	27.2	534.8	0.24
Dover	May	23	12	19.2	144.9	1.39	Dover	June	12	32	24.8	559.6	0
Dover	May	24	13	10.7	155.5	0	Dover	June	13	33	17.4	576.9	0
Dover	May	25	14	13.6	169.1	0.01	Dover	June	14	34	16.1	593.0	0
Dover	May	26	15	14.5	183.6	0	Dover	June	15	35	16.0	608.9	0
Dover	May	27	16	17.4	201.0	0	Dover	June	16	36	16.2	625.1	0
Dover	May	28	17	25.0	226.0	0.03	Dover	June	17	37	16.9	641.9	0.12
Dover	May	29	18	28.3	254.3	0	Dover	June	18	38	22.1	664.0	0.07
Dover	May	30	19	22.1	276.4	0	Dover	June	19	39	21.8	685.8	0.02
Dover	May	31	20	13.0	289.3	0	Dover	June	20	40	23.2	708.9	0.62
							Dover	June	21	41	25.3	734.2	0
							Dover	June	22	42	26.7	760.9	0
							Dover	June	23	43	26.6	787.5	0
							Dover	June	24	44	27.1	814.5	0
							Dover	June	25	45	25.2	839.7	0
							Dover	June	26	46	24.4	864.0	0
							Dover	June	27	47	28.3 892.3	892.3	0.18
							Dover	June	28	48	28.1	920.4	0.04
							Dover	June	29	49	27.2	947.6	0
							Dover	June	30	50	25.7	973.2	0

				Daily	Cummulative	Daily					Daily	Cummulative	· ·
Station	Month	Date	Day	GDD	GDD	Rainfall	Station	Month	Date	Day	GDD	GDD	Rainfall
Dover	July	1	51	25.3	998.5	0.3	Dover	August	1	82	28.4	1867.9	0
Dover	July	2	52	25.0	1023.5	0	Dover	August	2	83	31.0	1898.9	0.24
Dover	July	3	53	27.8	1051.3	0	Dover	August	3	84	29.8	1928.7	0.06
Dover	July	4	54	28.7	1080.0	0	Dover	August	4	85	26.8	1955.4	3.58
Dover	July	5	55	28.1	1108.0	0	Dover	August	5	86	27.5	1982.9	0.03
Dover	July	6	56	27.2	1135.2	1.38	Dover	August	6	87	23.6	2006.5	0.85
Dover	July	7	57	26.5	1161.7	0.19	Dover	August	7	88	27.1	2033.6	2.53
Dover	July	8	58	29.6	1191.3	0	Dover	August	8	89	27.0	2060.6	0.05
Dover	July	9	59	28.0	1219.2	0	Dover	August	9	90	27.1	2087.7	0
Dover	July	10	60	26.5	1245.7	3.32	Dover	August	10	91	29.4	2117.0	0
Dover	July	11	61	29.2	1274.9	0.02	Dover	August	11	92	29.8	2146.8	0
Dover	July	12	62	27.0	1301.9	0	Dover	August	12	93	29.3	2176.1	0.63
Dover	July	13	63	26.6	1328.5	0.3	Dover	August	13	94	26.8	2202.9	0.42
Dover	July	14	64	26.2	1354.7	0	Dover	August	14	95	26.3	2229.2	0.25
Dover	July	15	65	26.1	1380.8	0	Dover	August	15	96	23.0	2252.2	0.01
Dover	July	16	66	23.7	1404.5	0	Dover	August	16	97	19.9	2272.0	0.99
Dover	July	17	67	28.3	1432.8	0	Dover	August	17	98	22.8	2294.8	0.02
Dover	July	18	68	29.1	1461.9	0	Dover	August	18	99	24.4	2319.2	0
Dover	July	19	69	28.4	1490.3	0	Dover	August	19	100	23.3	2342.5	0.28
Dover	July	20	70	32.0	1522.2	0	Dover	August	20	101	23.0	2365.4	0
Dover	July	21	71	27.7	1549.9	1.57	Dover	August	21	102	22.7	2388.1	0
Dover	July	22	72	28.9	1578.7	0.4	Dover	August	22	103	27.2	2415.3	0.02
Dover	July	23	73	29.0	1607.7	0.02	Dover	August	23	104	27.6	2442.9	0
Dover	July	24	74	29.1	1636.8	0.09	Dover	August	24	105	28.3	2471.2	0
Dover	July	25	75	28.0	1664.8	0	Dover	August	25	106	29.5	2500.6	0.09
Dover	July	26	76	30.1	1694.9	0	Dover	August	26	107	23.5	2524.1	0
Dover	July	27	77	29.5	1724.3	0	Dover	August	27	108	28.9	2553.0	0
Dover	July	28	78	30.8	1755.1	0	Dover	August	28	109	29.4	2582.3	0.67
Dover	July	29	79	29.7	1784.7	0	Dover	August	29	110	27.2	2609.5	0.85
Dover	July	30	80	29.2	1813.9	0.14	Dover	August	30	111	20.7	2630.2	0
Dover	July	31	81	25.7	1839.6	1.21	Dover	August	31	112	19.0	2649.2	0.08

				Daily	Cummulative	Daily					Daily	Cummulative	Daily
Station	Month	Date	Day	GDD	GDD	Rainfall	Station	Month	Date	Day	GDD	GDD	Rainfall
Dover	September	1	113	23.4	2672.3	0.03	Dover	October	1	143	15.6	3220.5	0
Dover	September	2	114	28.8	2701.0	0.08	Dover	October	2	144	8.8	3229.3	0.06
Dover	September	3	115	28.9	2729.9	1.25	Dover	October	3	145	8.1	3237.4	0
Dover	September	4	116	29.0	2758.9	0.07	Dover	October	4	146	9.3	3246.6	0
Dover	September	5	117	20.0	2778.9	0	Dover	October	5	147	8.6	3255.2	0.03
Dover	September	6	118	20.6	2799.5	0	Dover	October	6	148	11.1	3266.2	0
Dover	September	7	119	18.9	2818.3	0	Dover	October	7	149	17.7	3283.9	0
Dover	September	8	120	22.7	2841.0	0	Dover	October	8	150	9.3	3293.2	0
Dover	September	9	121	23.1	2864.1	0.13							
Dover	September	10	122	27.2	2891.3	1.43							
Dover	September	11	123	23.8	2915.0	0.65							
Dover	September	12	124	17.4	2932.4	0							
Dover	September	13	125	19.8	2952.2	0							
Dover	September	14	126	18.3	2970.4	0							
Dover	September	15	127	9.5	2979.9	0							
Dover	September	16	128	12.4	2992.3	0							
Dover	September	17	129	18.1	3010.4	0.33							
Dover	September	18	130	15.8	3026.2	0.04							
Dover	September	19	131	7.0	3033.1	0							
Dover	September	20	132	7.6	3040.7	0							
Dover	September	21	133	7.8	3048.5	0							
Dover	September	22	134	10.9	3059.4	0							
Dover	September	23	135	14.9	3074.2	0							
Dover	September	24	136	13.9	3088.1	0							
Dover	September	25	137	14.1	3102.1	0							
Dover	September	26	138	19.5	3121.6	1.26							
Dover	September	27	139	22.9	3144.4	0.04							
Dover	September	28	140	25.5	3169.9	0							
Dover	September	29	141	21.6	3191.4	1.44							
Dover	September	30	142	13.5	3204.9	0.95							

				Daily	Cummulative	Daily					Daily	Cummulative	
Station	Month	Date	Day	GDD	GDD	Rainfall	Station	Month	Date	Day	GDD	GDD	Rainfall
Laurel	May	8	1	9.5	9.5	0.08	Laurel	June	1	25	10.5	316.3	0
Laurel	May	9	2	0.5	10.1	0.09	Laurel	June	2	26	13.4	329.7	0
Laurel	May	10	3	5.4	15.4	0	Laurel	June	3	27	28.3	358.0	0
Laurel	May	11	4	6.9	22.3	0	Laurel	June	4	28	26.8	384.8	0
Laurel	May	12	5	5.0	27.2	0	Laurel	June	5	29	28.3	413.1	0
Laurel	May	13	6	8.7	35.9	0	Laurel	June	6	30	29.3	442.3	0
Laurel	May	14	7	11.2	47.0	0	Laurel	June	7	31	20.5	462.8	0
Laurel	May	15	8	22.9	69.9	0	Laurel	June	8	32	16.9	479.6	0
Laurel	May	16	9	16.9	86.8	0	Laurel	June	9	33	20.2	499.8	0
Laurel	May	17	10	9.6	96.3	0	Laurel	June	10	34	28.9	528.7	0
Laurel	May	18	11	8.3	104.6	0.07	Laurel	June	11	35	26.7	555.4	1.11
Laurel	May	19	12	8.1	112.7	0.01	Laurel	June	12	36	25.9	581.2	0
Laurel	May	20	13	4.3	116.9	0	Laurel	June	13	37	20.0	601.2	0
Laurel	May	21	14	9.3	126.2	0	Laurel	June	14	38	14.2	615.4	0
Laurel	May	22	15	16.5	142.7	0.51	Laurel	June	15	39	14.2	629.6	0
Laurel	May	23	16	20.0	162.7	0.92	Laurel	June	16	40	15.7	645.3	0
Laurel	May	24	17	7.8	170.4	0	Laurel	June	17	41	13.1	658.3	0.3
Laurel	May	25	18	13.1	183.5	0	Laurel	June	18	42	23.3	681.6	0.01
Laurel	May	26	19	16.2	199.7	0.01	Laurel	June	19	43	23.2	704.8	0
Laurel	May	27	20	18.7	218.3	0.02	Laurel	June	20	44	24.1	728.8	0.15
Laurel	May	28	21	25.8	244.1	0	Laurel	June	21	45	25.7	754.5	0.99
Laurel	May	29	22	27.4	271.4	0.03	Laurel	June	22	46	26.1	780.5	0.01
Laurel	May	30	23	21.4	292.8	0	Laurel	June	23	47	27.0	807.5	0.02
Laurel	May	31	24	13.0	305.8	0	Laurel	June	24	48	25.1	832.6	0.08
							Laurel	June	25	49	23.2	855.8	0.15
							Laurel	June	26	50	24.1	879.9	0
							Laurel	June	27	51	28.9	908.8	0
							Laurel	June	28	52	28.6	937.3	0
							Laurel	June	29	53	27.6	964.9	0
							Laurel	June	30	54	26.0	990.9	0

				Daily	Cummulative	Daily					Daily	Cummulative	
Station	Month	Date	Day	GDD	GDD	Rainfall	Station	Month	Date	Day	GDD	GDD	Rainfall
Laurel	July	1	55	24.9	1015.8	0.19	Laurel	August	1	86	28.6	1881.5	0
Laurel	July	2	56	25.0	1040.8	0	Laurel	August	2	87	30.3	1911.8	0
Laurel	July	3	57	27.0	1067.8	0	Laurel	August	3	88	30.2	1942.0	0
Laurel	July	4	58	27.3	1095.0	0	Laurel	August	4	89	27.4	1969.4	1.63
Laurel	July	5	59	26.4	1121.4	0	Laurel	August	5	90	29.2	1998.6	0
Laurel	July	6	60	27.4	1148.8	1.19	Laurel	August	6	91	26.7	2025.2	0.35
Laurel	July	7	61	27.3	1176.0	0.34	Laurel	August	7	92	28.3	2053.5	0.97
Laurel	July	8	62	28.7	1204.7	0.01	Laurel	August	8	93	26.8	2080.3	0.07
Laurel	July	9	63	29.4	1234.1	0	Laurel	August	9	94	26.1	2106.4	0
Laurel	July	10	64	27.8	1261.9	2.32	Laurel	August	10	95	28.2	2134.6	0
Laurel	July	11	65	29.0	1290.8	0.02	Laurel	August	11	96	28.9	2163.4	0.02
Laurel	July	12	66	26.6	1317.4	0	Laurel	August	12	97	29.1	2192.5	0.18
Laurel	July	13	67	27.1	1344.5	0.01	Laurel	August	13	98	27.0	2219.5	0.34
Laurel	July	14	68	26.8	1371.3	0.01	Laurel	August	14	99	26.2	2245.7	0.41
Laurel	July	15	69	24.4	1395.6	0	Laurel	August	15	100	22.5	2268.2	0
Laurel	July	16	70	24.1	1419.7	0	Laurel	August	16	101	20.7	2288.9	0.76
Laurel	July	17	71	27.0	1446.7	0	Laurel	August	17	102	22.0	2310.8	0.7
Laurel	July	18	72	29.7	1476.4	0	Laurel	August	18	103	23.5	2334.3	0
Laurel	July	19	73	28.0	1504.4	0	Laurel	August	19	104	23.5	2357.8	0.3
Laurel	July	20	74	32.2	1536.5	0	Laurel	August	20	105	21.0	2378.7	0.01
Laurel	July	21	75	29.9	1566.4	0	Laurel	August	21	106	22.0	2400.7	0
Laurel	July	22	76	29.5	1595.9	0.03	Laurel	August	22	107	25.8	2426.5	0.16
Laurel	July	23	77	29.1	1625.0	0	Laurel	August	23	108	27.4	2453.9	0.01
Laurel	July	24	78	28.9	1653.9	0.08	Laurel	August	24	109	30.2	2484.1	0
Laurel	July	25	79	28.3	1682.1	0.37	Laurel	August	25	110	28.7	2512.8	0.08
Laurel	July	26	80	29.5	1711.6	0	Laurel	August	26	111	23.6	2536.3	0
Laurel	July	27	81	29.0	1740.5	0	Laurel	August	27	112	28.8	2565.1	0
Laurel	July	28	82	30.0	1770.5	0.22	Laurel	August	28	113	28.2	2593.3	0.99
Laurel	July	29	83	29.1	1799.5	0.01	Laurel	August	29	114	28.0	2621.2	1.31
Laurel	July	30	84	28.7	1828.2	0.08	Laurel	August	30	115	20.4	2641.6	0
Laurel	July	31	85	24.7	1852.9	0.48	Laurel	August	31	116	19.4	2661.0	0

				Daily	Cummulative	Daily
Station	Month	Date	Day	GDD	GDD	Rainfall
Laurel	September	1	117	26.0	2687.0	0
Laurel	September	2	118	28.0	2715.0	0
Laurel	September	3	119	29.4	2744.4	0
Laurel	September	4	120	28.8	2773.2	0.57
Laurel	September	5	121	18.9	2792.1	0
Laurel	September	6	122	18.9	2811.0	0
Laurel	September	7	123	18.3	2829.3	0
Laurel	September	8	124	22.6	2851.9	0
Laurel	September	9	125	24.4	2876.3	0.1
Laurel	September	10	126	29.0	2905.3	0.47
Laurel	September	11	127	25.6	2930.9	0.01
Laurel	September	12	128	17.9	2948.7	0
Laurel	September	13	129	21.5	2970.2	0
Laurel	September	14	130	19.7	2989.8	0
Laurel	September	15	131	9.9	2999.7	0
Laurel	September	16	132	12.9	3012.6	0
Laurel	September	17	133	18.0	3030.6	0.32

				Daily	Cummulative	Daily					Daily	Cummulative	Daily
Station	Month	Date	Day	GDD	GDD	Rainfall	Station	Month	Date	Day	GDD	GDD	Rainfall
Georgetown	May	11	1	6.6	6.6	0	Georgetown	June	1	22	10.6	297.2	0
Georgetown	May	12	2	4.6	11.2	0	Georgetown	June	2	23	14.9	312.1	0
Georgetown	May	13	3	8.8	20.0	0	Georgetown	June	3	24	28.4	340.5	0
Georgetown	May	14	4	11.4	31.4	0	Georgetown	June	4	25	27.1	367.6	0
Georgetown	May	15	5	23.4	54.7	0	Georgetown	June	5	26	28.5	396.1	0
Georgetown	May	16	6	16.7	71.4	0	Georgetown	June	6	27	29.4	425.4	0
Georgetown	May	17	7	9.3	80.7	0	Georgetown	June	7	28	21.0	446.4	0
Georgetown	May	18	8	7.9	88.6	0.07	Georgetown	June	8	29	17.5	463.9	0
Georgetown	May	19	9	7.9	96.5	0	Georgetown	June	9	30	20.4	484.2	0
Georgetown	May	20	10	3.6	100.1	0	Georgetown	June	10	31	29.2	513.4	0
Georgetown	May	21	11	8.1	108.1	0	Georgetown	June	11	32	26.5	539.9	1.48
Georgetown	May	22	12	16.4	124.5	0.49	Georgetown	June	12	33	26.3	566.1	0.01
Georgetown	May	23	13	18.5	143.0	0.58	Georgetown	June	13	34	18.9	585.0	0
Georgetown	May	24	14	7.5	150.5	0	Georgetown	June	14	35	14.0	599.0	0
Georgetown	May	25	15	13.1	163.5	0.01	Georgetown	June	15	36	14.9	613.9	0
Georgetown	May	26	16	15.7	179.2	0	Georgetown	June	16	37	15.9	629.8	0
Georgetown	May	27	17	17.7	196.9	0.05	Georgetown	June	17	38	13.3	643.0	0.25
Georgetown	May	28	18	25.2	222.1	0.33	Georgetown	June	18	39	23.4	666.4	0.02
Georgetown	May	29	19	28.1	250.2	0.02	Georgetown	June	19	40	22.8	689.2	0
Georgetown	May	30	20	22.8	273.0	0	Georgetown	June	20	41	24.7	713.9	0
Georgetown	May	31	21	13.7	286.6	0	Georgetown	June	21	42	24.9	738.8	0.7
							Georgetown	June	22	43	26.0	764.8	0.01
							Georgetown	June	23	44	27.0	791.8	0
							Georgetown	June	24	45	26.2	818.0	0.01
							Georgetown	June	25	46	24.0	842.0	0.05
							Georgetown	June	26	47	24.4	866.3	0
							Georgetown	June	27	48	29.0	895.3	0
							Georgetown	June	28	49	29.2	924.4	0
							Georgetown	June	29	50	28.3	952.7	0
							Georgetown	June	30	51	26.9	979.6	0

				Daily	Cummulative	Daily					Daily	Cummulative	Daily
Station	Month	Date	Day	GDD	GDD	Rainfall	Station	Month	Date	Day	GDD	GDD	Rainfall
Georgetown	July	1	52	24.4	1004.1	0.24	Georgetown	August	1	83	28.9	1884.9	0
Georgetown	July	2	53	25.7	1029.8	0	Georgetown	August	2	84	30.4	1915.3	0
Georgetown	July	3	54	28.5	1058.3	0	Georgetown	August	3	85	30.5	1945.8	0.08
Georgetown	July	4	55	28.3	1086.5	0	Georgetown	August	4	86	27.7	1973.4	0.71
Georgetown	July	5	56	26.4	1112.9	0	Georgetown	August	5	87	28.9	2002.3	0
Georgetown	July	6	57	27.4	1140.3	0.86	Georgetown	August	6	88	25.8	2028.1	0.05
Georgetown	July	7	58	26.5	1166.8	0.88	Georgetown	August	7	89	28.2	2056.2	0.03
Georgetown	July	8	59	28.8	1195.6	0	Georgetown	August	8	90	27.7	2083.9	0.14
Georgetown	July	9	60	29.2	1224.7	0	Georgetown	August	9	91	26.1	2110.0	0
Georgetown	July	10	61	27.5	1252.2	3.08	Georgetown	August	10	92	28.6	2138.6	0
Georgetown	July	11	62	30.3	1282.5	0	Georgetown	August	11	93	29.3	2167.9	0
Georgetown	July	12	63	27.0	1309.5	0	Georgetown	August	12	94	29.2	2197.1	0.24
Georgetown	July	13	64	28.5	1338.0	0	Georgetown	August	13	95	27.7	2224.8	0.85
Georgetown	July	14	65	28.0	1366.0	0	Georgetown	August	14	96	26.1	2250.8	0.8
Georgetown	July	15	66	25.3	1391.3	0	Georgetown	August	15	97	22.4	2273.2	0
Georgetown	July	16	67	24.1	1415.4	0	Georgetown	August	16	98	21.0	2294.2	0.48
Georgetown	July	17	68	27.1	1442.4	0	Georgetown	August	17	99	23.0	2317.2	0.14
Georgetown	July	18	69	30.5	1472.9	0	Georgetown	August	18	100	24.8	2342.0	0
Georgetown	July	19	70	29.4	1502.3	0	Georgetown	August	19	101	23.3	2365.2	0.68
Georgetown	July	20	71	32.5	1534.8	0	Georgetown	August	20	102	21.7	2386.9	0.01
Georgetown	July	21	72	30.6	1565.3	0	Georgetown	August	21	103	21.9	2408.8	0
Georgetown	July	22	73	29.6	1594.9	0.01	Georgetown	August	22	104	26.4	2435.2	0.08
Georgetown	July	23	74	29.0	1623.9	0	Georgetown	August	23	105	27.5	2462.7	0
Georgetown	July	24	75	29.8	1653.7	0.02	Georgetown	August	24	106	30.1	2492.8	0
Georgetown	July	25	76	28.4	1682.1	0	Georgetown	August	25	107	29.6	2522.4	0
Georgetown	July	26	77	29.8	1711.9	0	Georgetown	August	26	108	24.5	2546.8	0
Georgetown	July	27	78	29.9	1741.8	0	Georgetown	August	27	109	28.7	2575.5	0
Georgetown	July	28	79	30.3	1772.1	0.07	Georgetown	August	28	110	29.8	2605.3	0.23
Georgetown	July	29	80	30.1	1802.1	0.01	Georgetown	August	29	111	27.9	2633.2	1.19
Georgetown	July	30	81	28.6	1830.7	0.06	Georgetown	August	30	112	21.4	2654.5	0
Georgetown	July	31	82	25.4	1856.0	0.55	Georgetown	August	31	113	19.8	2674.3	0

				Daily	Cummulative	Daily
Station	Month	Date	Day	GDD	GDD	Rainfall
Georgetown	September	1	114	26.2	2700.5	0
Georgetown	September	2	115	27.9	2728.4	0
Georgetown	September	3	116	29.2	2757.6	0.69
Georgetown	September	4	117	29.2	2786.8	0.37
Georgetown	September	5	118	19.7	2806.4	0
Georgetown	September	6	119	19.4	2825.8	0
Georgetown	September	7	120	18.4	2844.1	0
Georgetown	September	8	121	22.6	2866.7	0
Georgetown	September	9	122	25.4	2892.1	0.03
Georgetown	September	10	123	29.0	2921.1	0.3
Georgetown	September	11	124	25.6	2946.6	0.02
Georgetown	September	12	125	18.2	2964.8	0
Georgetown	September	13	126	20.9	2985.7	0
Georgetown	September	14	127	18.9	3004.5	0
Georgetown	September	15	128	10.2	3014.7	0
Georgetown	September	16	129	12.6	3027.2	0
Georgetown	September	17	130	18.0	3045.2	0.3
Georgetown	September	18	131	15.0	3060.1	0.33
Georgetown	September	19	132	6.4	3066.5	0
Georgetown	September	20	133	8.0	3074.5	0
Georgetown	September	21	134	7.3	3081.7	0
Georgetown	September	22	135	9.9	3091.6	0
Georgetown	September	23	136	15.1	3106.6	0

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						Emerso	n Farms	New Cas	tle County)	Middletown,	Delaware					
Planted 5/13/2020 & Ha	rvested October 6, Early	Hybrids									Perf	ormance Rank	ing for	Pooled	d sites	
									% Relative							Two Year
		Yield	%	Yield/	Test	Final	% Stalk	% Root	Yield to	Middletown	Laurel	Georgetown	Marydel	Yield Avg.		Yield Ave
Brand	Hybrid	Bu/A ¹		Moisture	Weight	Рор	Lodging	Lodging	Check Avg.	Dry land	Irrigated	Irrigated	Irrigated	Bu/A	Rank	Bu/A
DeKalb	DKC62-53RIB (Check)	198.2	20.4	9.7	55.0	26125.0	0.5	0.0	101.0	1	1	2	2	219.9	1	
MorCorn	MC3952	198.1	19.9	10.0	55.7	26125.0	0.5	0.0	101.0	2	18	14	4	203.5	8	215.0
Seed Consultants	SCS 1087AM	197.9	20.0	9.9	55.9	27125.0	2.3	0.0	100.9	3	13	5	6	207.8	4	221.7
Mid-Atlantic Seeds	MA8091VT2P	195.7	20.6	9.5	54.5	26125.0	0.0	0.0	99.8	4	6	4	9	209.1	2	
AgVenture	AV7408AM	194.1	20.1	9.7	56.1	25875.0	1.0	0.0	99.0	5	12	1	8	208.4	3	220.6
Dyna-Gro	D52VC63 (Check)	194.0	20.9	9.4	53.7	25750.0	1.0	0.0	98.9	6	22	3	7	203.6	7	
NK	NK1082-5222	189.5	19.7	9.6	53.2	25875.0	0.5	0.0	96.6	7	17	21	17	191.6	18	
Seed Consultants	SCS 1071AM	186.9	19.9	9.4	54.6	26875.0	1.5	0.0	95.3	8	2	13	3	207.1	5	
AgVenture	AV6409AM	186.2	20.3	9.2	54.0	26500.0	0.5	0.0	95.0	9	10	6	14	200.2	11	
Mid-Atlantic Seeds	MA8066SS	184.6	20.3	9.1	56.6	26000.0	0.9	0.0	94.1	10	11	9	15	199.2	12	
Local Seed	LC1009 VT2PRIB	184.2	19.5	9.4	56.2	26250.0	0.5	0.0	93.9	11	5	8	5	205.1	6	
Mid-Atlantic Seeds	MA8039VT2P	183.8	18.1	10.2	57.8	26125.0	1.0	0.0	93.7	12	14	19	21	190.6	19	
Local Seed	LC0999 VT2PRIB	181.7	19.7	9.2	55.7	26125.0	0.5	0.5	92.6	13	15	15	11	197.5	15	
Seed Consultants	SCS 1069AM	181.3	20.2	9.0	54.6	27250.0	0.5	0.0	92.5	14	20	18	16	189.6	20	211.7
AgVenture	AV4810AM	180.9	20.8	8.7	55.1	27125.0	0.5	0.0	92.2	15	16	12	10	198.7	13	
Local Seed	LC0297 SSX	180.8	19.6	9.3	57.1	25875.0	0.5	0.0	92.2	16	8	11	12	200.7	10	
AgVenture	AV7808AM	180.6	20.6	8.8	56.7	25125.0	0.5	0.0	92.1	17	4	16	13	197.5	14	217.0
Mid-Atlantic Seeds	MA8106VT2P	177.8	19.4	9.2	56.7	25625.0	1.0	0.0	90.7	18	3	20	1	201.4	9	
Local Seed	LC0607 TCRIB	177.5	18.3	9.7	54.6	26750.0	0.0	0.0	90.5	19	9	7	18	196.8	16	
Blue River Organic Seed	48G35	173.8	17.9	9.7	54.4	24500.0	1.6	2.7	88.6	20	19	24	23	170.7	22	
LG Seeds	LG57C97VT2PRO	172.2	19.6	8.8	56.7	26875.0	0.5	0.0	87.8	21	21	17	19	186.5	21	
LG Seeds	LG59C72VT2RIB	169.9	18.1	9.4	52.9	25625.0	2.1	0.0	86.6	22	7	10	20	194.4	17	
Blue River Organic Seed	51T59	159.6	19.2	8.3	55.9	22000.0	0.5	1.3	81.4	23	24	25	22	160.1	24	
Blue River Organic Seed	57A30	157.3	18.2	8.7	55.0	23875.0	1.5	0.5	80.2	24	25	23	25	152.4	25	
Blue River Organic Seed	54C27	152.0	19.7	7.8	55.0	22250.0	0.5	2.1	77.5	25	23	22	24	162.1	23	
	Check Avg.	196.1	20.6	9.5	54.4	25938.0	0.7	0.0								
	Test Avg.	181.5	19.6	9.3	55.3	25750.0	0.8	0.3								
	LSD (0.05)	161.5	0.6	9.5 0.9	1.0	2013.6	NS	1.1								
	25D (0.05) % C.V.	5.9	1.9	6.2	1.0	4.6	174.3	1.1								
	% C.V. Check Avg. + LSD (0.05)	5.9 212.2	1.9	0.2	1.2	4.0	1/4.3	142.5								
	CHECK AVg. + LOD (0.05)	212.2														

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Planted 5/13/2020 & Ha	rvested October 6, Early	-Medium	Hybrids			Emerso	ii Farins	New Cas	tie county)	ivilduletown,		formance Rank	ing for	Poole	l sites	-
		Yield	%	Yield/	Test	Final	% Stalk	% Root	% Relative Yield to	Middletown	Laurel	Georgetown	Marydel	Yield Avg.		Two Year Yield Ave
Brand	Hybrid	Bu/A ¹	Moisture	Moisture	Weight	Рор	Lodging	Lodging	Check Avg.	Dry land	Irrigated	Irrigated	Irrigated	Bu/A	Rank	Bu/A
Local Seed	LC1207 TCRIB	221.1	20.1	11.0	53.3	25500.0	0.0	0.5	114.5	1	3	4	10	221.2	1	
Local Seed	LC1398 VT2PRIB	207.7	20.7	10.1	53.6	28500.0	0.4	0.0	107.5	2	2	9	7	218.7	3	
Mid-Atlantic Seeds	MA8141DGVT2P	204.5	21.1	9.7	53.1	26000.0	0.0	0.0	105.9	3	7	2	2	219.8	2	
Local Seed	LC1289 VT2PRIB	204.0	20.7	9.9	54.2	26875.0	0.0	0.5	105.6	4	20	14	5	204.5	10	
Mid-Atlantic Seeds	MA8117TRE	203.8	20.2	10.1	53.7	25125.0	1.0	0.0	105.5	5	5	3	9	217.3	4	
DeKalb	DKC65-95RIB (Check)	202.2	21.3	9.5	54.1	25875.0	0.0	0.0	104.7	6	16	7	20	201.4	14	
Local Seed	LC1407 VT2RIB	200.5	21.3	9.5	52.2	25375.0	0.0	0.0	103.8	7	1	1	13	217.1	5	
AgVenture	AV8614AM	199.7	21.5	9.3	52.5	28125.0	0.0	0.5	103.4	8	10	17	23	198.4	19	
MorCorn	MC4319	198.9	21.9	9.1	53.5	24625.0	0.5	0.0	103.0	9	15	13	17	201.3	15	219.7
Seed Consultants	SCS 1141 AM	197.6	21.2	9.3	54.0	26000.0	2.4	0.5	102.3	10	22	19	19	193.1	22	
Mission Seed Solutions	A1257VT2P	197.5	21.0	9.4	53.7	24875.0	0.6	0.0	102.3	11	19	12	6	203.8	11	
AgVenture	AV4313AM	196.9	20.6	9.6	53.3	27125.0	0.5	0.0	102.0	12	13	16	15	201.2	16	
AgVenture	AV5911AM	196.6	20.6	9.5	54.0	24750.0	0.5	0.0	101.8	13	8	22	16	201.7	13	
LG Seeds	LG60C47 STX Rib	196.4	20.0	9.8	54.8	27125.0	0.9	0.0	101.7	14	6	15	14	209.2	7	
Local Seed	LC1497 DGVT2PRIB	196.0	20.2	9.7	52.7	25375.0	0.5	0.0	101.5	15	18	5	1	207.1	8	
AgVenture	AV8714AM	195.9	21.0	9.3	54.7	25000.0	0.0	0.0	101.5	16	12	6	22	199.8	17	220.8
Seed Consultants	SCS 1111Q	195.3	20.8	9.4	54.6	26375.0	1.0	0.0	101.1	17	4	10	12	213.3	6	
MorCorn	MC4255	193.7	20.7	9.4	54.0	27750.0	1.3	0.0	100.3	18	21	8	11	202.0	12	218.8
LG Seeds	LG62C02 VT2RIB	192.8	20.2	9.6	55.5	26375.0	0.0	0.0	99.8	19	9	18	3	206.4	9	224.0
Seed Consultants	SCS 1121 AM	187.1	20.5	9.1	53.6	25000.0	1.0	0.0	96.9	20	14	21	18	194.0	20	
Local Seed	LC1488 VT2PRIB	185.5	20.2	9.2	55.8	27125.0	1.4	0.0	96.0	21	11	23	4	198.7	18	
Dyna-Gro	D54VC52 (Check)	184.1	21.6	8.5	54.1	22125.0	0.0	0.0	95.3	22	17	11	21	193.5	21	
NK	NK1460-5222	181.4	21.0	8.6	52.4	27375.0	0.0	0.0	93.9	23	23	27	27	175.6	25	
Blue River Organic Seed	64K93	180.3	20.7	8.7	54.7	23875.0	0.0	0.0	93.4	24	25	24	24	177.2	24	
NK	NK1239-5122	176.7	20.2	8.8	54.7	26375.0	0.0	0.0	91.5	25	27	25	29	167.4	27	
Mid-Atlantic Seeds	MA8128VT2P	175.7	20.4	8.6	55.8	24875.0	1.0	1.0	91.0	26	24	20	8	191.9	23	
Blue River Organic Seed	70A47	164.9	20.8	8.0	54.5	23750.0	0.0	0.0	85.4	27	28	28	28	162.4	29	
Blue River Organic Seed	68C37	164.0	20.6	8.0	54.1	22250.0	0.0	0.0	84.9	28	26	26	25	170.9	26	
Blue River Organic Seed	66G25	163.5	20.4	8.1	55.2	24250.0	0.0	0.0	84.7	29	29	29	26	165.0	28	
	Check Avg.	193.1	21.4	9.0	54.1	24000.0	0.0	0.0								
	Test Avg.	191.9	20.7	9.3	54.0	25647.0	0.4	0.1								
	LSD (0.05)	17.3	0.4	0.8	0.8	1874.0	NS	NS								
	% C.V.	6.0	1.1	5.8	0.9	4.5	173.9	200.0								
	Charle Aug 115D (0.05)	210.4														

Check Avg. + LSD (0.05) 210.4

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Planted 5/13/2020 & Ha	rvested October 6, Medi	um Hybrid	ls			Emersor	i Farms (i	vew cast	le County) N	vildaletown,		ormance Ranki	ing for	Poole	d sites	
Brand	Hybrid	Yield Bu/A ¹	% 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
Dyna-Gro	D58VC65 (Check)	211.2	21.5	9.8	54.1	26500.0	1.0	0.5	101.1	1	3	9	8	220.1	3	
Local Seed	LC1577 VT2PRIB	210.3	21.1	10.0	54.9	27750.0	1.0	0.0	100.7	2	4	7	12	217.5	5	
MorCorn	MC4725	209.2	22.3	9.4	52.4	26750.0	0.9	0.0	100.2	3	5	6	2	220.8	2	
DeKalb	DKC70-27RIB (Check)	206.6	23.5	8.8	52.6	25375.0	1.0	0.0	98.9	4	2	3	1	224.7	1	
Mission Seed Solutions	A7516Q	205.0	22.9	9.0	53.8	26375.0	1.4	0.0	98.1	5	11	12	5	209.6	9	
Seed Consultants	SCS 1158 AM	204.2	21.4	9.5	52.8	26750.0	8.2	0.0	97.8	6	1	4	17	217.0	7	
Mid-Atlantic Seeds	MA8158SS	203.6	21.8	9.4	55.5	26375.0	1.0	0.0	97.5	7	15	10	11	208.8	10	
LG Seeds	LG5643 VT2RIB	201.9	21.1	9.6	52.9	26000.0	0.5	0.5	96.6	8	7	2	4	217.8	4	
Mission Seed Solutions	A1548DGVT2P	201.4	20.8	9.7	52.7	26625.0	2.4	0.0	96.4	9	6	5	7	217.3	6	
Mission Seed Solutions	A1857VT2P	199.3	21.6	9.2	54.7	27875.0	3.6	0.0	95.4	10	14	11	6	208.1	11	
LG Seeds	LG66C32 VT2RIB	195.9	22.7	8.6	53.1	27125.0	0.9	0.0	93.8	11	16	8	10	206.5	12	222.4
MorCorn	MC4670	195.0	21.1	9.2	54.5	25500.0	0.0	0.0	93.3	12	9	1	3	214.6	8	
Seed Consultants	SCS 1188 AM	193.8	23.5	8.3	52.2	27375.0	1.5	0.0	92.7	13	8	16	15	202.6	13	212.7
Mid-Atlantic Seeds	MA5155GT3VIP	193.6	24.7	7.9	51.8	25375.0	1.4	0.5	92.7	14	17	17	14	194.9	16	
Local Seed	LC1697 VT2PRIB	186.6	21.1	8.9	56.3	26875.0	0.5	0.0	89.3	15	13	14	9	202.6	14	
Local Seed	LC1806 VT2PRIB	186.5	20.7	9.1	57.3	25000.0	1.5	0.0	89.3	16	10	13	16	200.9	15	
Local Seed	LC1898 TC	162.6	19.4	8.4	54.4	26625.0	3.3	0.0	77.8	17	12	15	13	193.8	17	
	Check Avg.	208.9	22.5	9.3	53.3	25938.0	1.0	0.2								
	Test Avg.	198.0	21.8	9.1	53.9	26485.0	1.8	0.1								
	LSD (0.05)	15.3	0.8	0.7	1.2	1502.0	NS	NS								
	% C.V.	5.0	2.1	6.2	1.6	3.8	132.7	200								

Check Avg. + LSD (0.05) 224.2

										ormance Sur) Marydel, D						
Dianted 5 /12 /2020 8 11a	rvested October 8, Early	و الماسطة الم				Inon	has Famil	y Farms (I	cent County) Marydel, L		ormance Ranl	dan far	Poole	4 4444	
		Yield	%	Yield/	Test	Final	% Stalk	% Root	% Relative Yield to	Marydel	Georgetown	Laurel	Middletown	Yield Avg.		Two Yea Yield Av
Brand	Hybrid	Bu/A ¹	Moisture		Weight	Рор	Lodging	Lodging	Check Avg.	Irrigated	Irrigated	Irrigated	Dry land	Bu/A	Rank	Bu/A
Mid-Atlantic Seeds	MA8106VT2P	235.7	18.3	12.9	57.5	32000.0	2.7	0.0	102.6	1	20	3	18	201.4	9	
DeKalb	DKC62-53RIB (Check)	231.7	18.3	12.7	57.6	32250.0	3.1	0.0	100.9	2	2	1	1	219.9	1	
Seed Consultants	SCS 1071AM	231.0	17.8	13.0	56.3	32750.0	1.6	0.0	100.6	3	13	2	8	207.1	5	
MorCorn	MC3952	229.6	17.9	12.9	57.6	32375.0	2.3	0.0	100.0	4	14	18	2	203.5	8	215.0
Local Seed	LC1009 VT2PRIB	229.4	18.3	12.6	57.8	31875.0	2.4	0.0	99.9	5	8	5	11	205.1	6	
Seed Consultants	SCS 1087AM	227.7	17.8	12.8	56.7	32250.0	3.8	2.7	99.1	6	5	13	3	207.8	4	221.7
Dyna-Gro	D52VC63 (Check)	227.6	20.1	11.4	57.4	32375.0	3.2	1.6	99.1	7	3	22	6	203.6	7	
AgVenture	AV7408AM	226.5	18.1	12.5	56.9	32375.0	1.6	1.6	98.6	8	1	12	5	208.4	3	220.6
Mid-Atlantic Seeds	MA8091VT2P	226.4	20.1	11.3	56.9	31625.0	1.2	0.8	98.6	9	4	6	4	209.1	2	
AgVenture	AV4810AM	223.9	19.6	11.5	59.4	32625.0	0.8	0.0	97.5	10	12	16	15	198.7	13	
Local Seed	LC0999 VT2PRIB	222.2	17.6	12.6	58.4	32375.0	0.8	0.0	96.7	11	15	15	13	197.5	15	
Local Seed	LC0297 SSX	219.1	17.7	12.4	58.0	30750.0	8.5	0.0	95.4	12	11	8	16	200.7	10	
AgVenture	AV7808AM	215.2	20.0	10.8	57.6	30625.0	0.0	0.0	93.7	13	16	4	17	197.5	14	217.0
AgVenture	AV6409AM	213.1	18.1	11.7	56.4	33000.0	0.8	0.0	92.8	14	6	10	9	200.2	11	
Mid-Atlantic Seeds	MA8066SS	212.6	18.1	11.8	59.2	31875.0	0.0	0.0	92.6	15	9	11	10	199.2	12	
Seed Consultants	SCS 1069AM	208.5	18.1	11.5	57.7	32375.0	0.0	0.0	90.8	16	18	20	14	189.6	20	211.7
NK	NK1082-5222	207.5	17.7	11.8	56.8	32375.0	2.7	0.0	90.3	17	21	17	7	191.6	18	
Local Seed	LC0607 TCRIB	207.4	17.5	11.9	56.7	32625.0	0.4	0.4	90.3	18	7	9	19	196.8	16	
LG Seeds	LG57C97VT2PRO	206.5	17.6	11.7	58.8	32250.0	1.2	0.0	89.9	19	17	21	21	186.5	21	
LG Seeds	LG59C72VT2RIB	204.3	17.7	11.6	55.6	32375.0	1.2	0.0	88.9	20	10	7	22	194.4	17	
Mid-Atlantic Seeds	MA8039VT2P	199.7	17.7	11.3	57.9	31750.0	5.1	1.1	86.9	21	19	14	12	190.6	19	
Blue River Organic Seed	51T59	175.4	17.5	10.0	56.4	27250.0	1.0	9.0	76.3	22	25	24	23	160.1	24	
Blue River Organic Seed	48G35	170.1	17.6	9.7	55.4	30250.0	2.6	10.2	74.0	23	24	19	20	170.7	22	
Blue River Organic Seed	54C27	167.5	18.0	9.3	55.2	28000.0	2.2	0.0	72.9	24	22	23	25	162.1	23	
Blue River Organic Seed	57A30	157.6	17.3	9.1	54.7	29000.0	12.3	0.0	68.6	25	23	25	24	152.4	25	I
	Check Avg.	229.7	19.2	12.0	57.5	32313.0	3.1	0.8								
	Test Avg.	211.0	18.2	11.6	57.1	31575.0	2.4	1.1								
	ISD (0.05)	12.7	0.4	0.7	0.8	1825 3	4.4	5.4								

										ormance Sur						
Planted 5/12/2020 & Ha	russtad Ostabar 8 Fark	Madium	1 lude side			Thom	as Family	Farms (K	ent County)	Marydel, D		ormance Ranl	ing for	Poole	l citac	<u>i</u>
Planted 5/12/2020 & Ha	rvested October 8, Early	lviedium	Hybrids	1		1	1		% Relative		Perio	ormance Rani	cing for	Poole	a sites	Two Year
		Yield	%	Yield/	Test	Final	% Stalk	% Root	Yield to	Marydel	Georgetown	Laurel	Middletown	Yield Avg.		Yield Ave.
Brand	Hybrid	Bu/A ¹	Moisture		Weight	Pop	Lodging	Lodging	Check Avg.	Irrigated	Irrigated	Irrigated	Dry land	Bu/A	Rank	Bu/A
Local Seed	LC1497 DGVT2PRIB	239.7	19.2	12.5	57.5	32750.0	1.5	0.0	117.3	1	5	18	15	207.1	8	
Mid-Atlantic Seeds	MA8141DGVT2P	239.5	20.8	11.5	57.4	32375.0	0.8	0.0	117.2	2	2	7	3	219.8	2	
LG Seeds	LG62C02 VT2RIB	236.9	19.9	11.9	58.5	32375.0	1.2	0.0	115.9	3	18	9	19	206.4	9	224.0
Local Seed	LC1488 VT2PRIB	236.5	19.0	12.5	58.7	32875.0	1.1	0.4	115.7	4	23	11	21	198.7	18	
Local Seed	LC1289 VT2PRIB	236.4	20.3	11.7	57.4	32125.0	0.0	0.4	115.7	5	14	20	4	204.5	10	
Mission Seed Solutions	A1257VT2P	236.3	20.0	11.8	57.4	32000.0	0.8	0.4	115.7	6	12	19	11	203.8	11	
Local Seed	LC1398 VT2PRIB	235.6	19.6	12.1	58.3	32875.0	0.4	0.0	115.3	7	9	2	2	218.7	3	
Mid-Atlantic Seeds	MA8128VT2P	233.2	19.8	11.8	58.6	29875.0	0.4	0.0	114.1	8	20	24	26	191.9	23	1
Mid-Atlantic Seeds	MA8117TRE	229.5	17.9	12.8	55.7	31375.0	0.0	0.0	112.3	9	3	5	5	217.3	4	
Local Seed	LC1207 TCRIB	228.5	18.0	12.7	55.6	31750.0	0.0	0.0	111.8	10	4	3	1	221.2	1	
MorCorn	MC4255	228.4	20.2	11.3	57.4	31500.0	0.4	0.4	111.8	11	8	21	18	202.0	12	218.8
Seed Consultants	SCS 1111Q	228.3	19.8	11.6	58.6	33000.0	0.0	0.0	111.7	12	10	4	17	213.3	6	
Local Seed	LC1407 VT2RIB	224.9	20.6	10.9	56.8	31125.0	1.5	0.0	110.1	13	1	1	7	217.1	5	
LG Seeds	LG60C47 STX Rib	223.5	17.6	12.7	56.9	32375.0	1.6	0.0	109.4	14	15	6	14	209.2	7	
AgVenture	AV4313AM	219.5	20.3	10.8	56.9	33000.0	0.4	0.0	107.4	15	16	13	12	201.2	16	
AgVenture	AV5911AM	217.5	18.8	11.6	56.4	31000.0	1.2	0.0	106.5	16	22	8	13	201.7	13	
MorCorn	MC4319	217.1	20.4	10.7	57.4	32500.0	0.4	0.0	106.3	17	13	15	9	201.3	15	219.7
Seed Consultants	SCS 1121 AM	215.0	19.5	11.0	56.3	30750.0	0.8	0.4	105.2	18	21	14	20	194.0	20	
Seed Consultants	SCS 1141 AM	211.3	20.3	10.5	57.4	32625.0	0.8	0.8	103.4	19	19	22	10	193.1	22	
DeKalb	DKC65-95RIB (Check)	206.8	20.0	10.3	59.0	30125.0	2.6	0.0	101.2	20	7	16	6	201.4	14	
Dyna-Gro	D54VC52 (Check)	201.8	20.7	9.8	56.9	28125.0	0.5	0.0	98.8	21	11	17	22	193.5	21	
AgVenture	AV8714AM	198.6	20.3	9.8	56.4	32500.0	0.0	0.0	97.2	22	6	12	16	199.8	17	220.8
AgVenture	AV8614AM	196.8	20.0	9.8	57.6	32625.0	7.2	6.8	96.3	23	17	10	8	198.4	19	
Blue River Organic Seed	64K93	191.4	19.0	10.1	56.5	29625.0	0.0	0.8	93.7	24	24	25	24	177.2	24	
Blue River Organic Seed	68C37	183.6	18.2	10.1	57.5	30000.0	3.6	4.5	89.9	25	26	26	28	170.9	26	
Blue River Organic Seed	66G25	180.4	17.8	10.1	58.9	29500.0	0.9	0.0	88.3	26	29	29	29	165.0	28	
NK	NK1460-5222	179.4	17.6	10.2	54.2	33000.0	0.8	0.0	87.8	27	27	23	23	175.6	25	
Blue River Organic Seed	70A47	164.5	19.7	8.4	57.0	29000.0	9.8	0.8	80.5	28	28	28	27	162.4	29	
NK	NK1239-5122	160.5	17.3	9.3	55.3	32250.0	3.1	3.1	78.5	29	25	27	25	167.4	27	I
	Check Avg.	204.3	20.3	10.1	58.0	29125.0	1.5	0.0								
	Test Avg.	213.8	19.4	11.0	57.2	31552.0	1.4	0.7								
	LSD (0.05)	14.1	0.5	0.7	0.8	1638.0	2.5	2.7								
	% C.V.	4.3	1.4	4.4	0.8	3.0	138.3	164.3								

Check Avg. + LSD (0.05) 218.4

										ormance Sur Marydel, D						
Planted 5/12/2020 & Ha	rvested October 8, Mediu	um Hybrid	ls							, ,	Perfo	ormance Rank	ing for	Poole	d sites	
Brand	Hybrid	Yield Bu/A ¹	% 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
DeKalb	DKC70-27RIB (Check)	242.4	20.9	11.6	55.5	31250.0	0.8	0.4	102.7	1	3	2	4	224.7	1	
MorCorn	MC4725	237.6	21.2	11.2	56.0	32125.0	2.0	0.0	100.7	2	6	5	3	220.8	2	
MorCorn	MC4670	234.5	20.5	11.5	58.8	32375.0	1.5	0.0	99.4	3	1	9	12	214.6	8	
LG Seeds	LG5643 VT2RIB	231.5	20.4	11.4	55.1	31500.0	0.0	0.4	98.1	4	2	7	8	217.8	4	
Mission Seed Solutions	A7516Q	231.1	21.0	11.0	57.7	31375.0	0.8	0.0	98.0	5	12	11	5	209.6	9	
Mission Seed Solutions	A1857VT2P	230.1	20.4	11.3	59.2	32500.0	0.4	0.4	97.5	6	11	14	10	208.1	11	
Mission Seed Solutions	A1548DGVT2P	229.9	20.9	11.0	56.6	32250.0	0.4	0.0	97.4	7	5	6	9	217.3	6	
Dyna-Gro	D58VC65 (Check)	229.5	20.9	11.0	57.3	31875.0	0.4	0.0	97.3	8	9	3	1	220.1	3	
Local Seed	LC1697 VT2PRIB	227.8	20.8	11.0	58.9	32875.0	0.8	0.8	96.6	9	14	13	15	202.6	14	
LG Seeds	LG66C32 VT2RIB	227.4	20.7	11.0	57.6	32750.0	1.5	0.0	96.4	10	8	16	11	206.5	12	222.4
Mid-Atlantic Seeds	MA8158SS	226.8	20.6	11.0	59.5	32750.0	0.0	0.0	96.1	11	10	15	7	208.8	10	
Local Seed	LC1577 VT2PRIB	223.4	20.5	10.9	57.7	32125.0	0.4	0.0	94.7	12	7	4	2	217.5	5	
Local Seed	LC1898 TC	222.2	17.6	12.6	57.2	33000.0	1.1	0.8	94.2	13	15	12	17	193.8	17	
Mid-Atlantic Seeds	MA5155GT3VIP	219.9	21.1	10.5	56.7	32375.0	1.5	2.7	93.2	14	17	17	14	194.9	16	
Seed Consultants	SCS 1188 AM	219.0	20.9	10.5	57.2	32875.0	3.4	0.4	92.8	15	16	8	13	202.6	13	212.7
Local Seed	LC1806 VT2PRIB	216.2	20.4	10.6	58.8	31750.0	0.4	0.0	91.7	16	13	10	16	200.9	15	
Seed Consultants	SCS 1158 AM	206.5	20.1	10.3	56.6	32625.0	3.4	3.4	87.5	17	4	1	6	217.0	7	
	Check Avg. Test Avg. LSD (0.05)	235.9 226.8 12.2	20.9 20.5 0.3	11.3 11.1 0.6	56.4 57.4 0.6	31563.0 32257.4 1050.7	0.6 1.1 NS	0.2 0.5 NS								
	% C.V.	3.6	0.5	3.5	0.8	2.0	143.3	190.8								
	Check Avg. + LSD (0.05)	248.1														

									Hybrid Perfo							
Planted 5/8/2020 & Har	vested September 17, Ea	rly Hybric	s			Plum	леектаг	ilis, LLC (s	Sussex Courr	ty) Laurei, D		ormance Ran	cing for	Poole	l sites	1
Brand	Hybrid	Yield Bu/A ¹	% Moisture	Yield/ Moisture	Test Weight	Final Pop	% Stalk Lodging	% Root Lodging	% Relative Yield to Check Avg.	Laurel Irrigated	Georgetown	Marydel Irrigated	Middletown Dry land		Rank	Two Yea Yield Ave Bu/A
DeKalb	DKC62-53RIB (Check)	239.7	21.5	11.1	52.4	32125.0	0.0	0.4	112.5	1	2	2	1	219.9	1	
Seed Consultants	SCS 1071AM	217.6	19.9	10.9	54.0	32625.0	22.1	0.0	102.2	2	13	3	8	207.1	5	
Mid-Atlantic Seeds	MA8106VT2P	215.1	20.3	10.6	54.1	32375.0	5.8	0.0	101.0	3	20	1	18	201.4	9	
AgVenture	AV7808AM	211.6	21.2	10.0	53.7	30250.0	18.7	0.4	99.3	4	16	13	17	197.5	14	217.0
Local Seed	LC1009 VT2PRIB	210.9	20.1	10.5	53.9	31125.0	9.3	0.0	99.0	5	8	5	11	205.1	6	
Mid-Atlantic Seeds	MA8091VT2P	210.0	21.0	10.0	53.3	31750.0	31.7	0.4	98.6	6	4	9	4	209.1	2	
LG Seeds	LG59C72VT2RIB	208.2	19.8	10.5	52.2	32625.0	1.9	3.0	97.7	7	10	20	22	194.4	17	
Local Seed	LC0297 SSX	208.0	19.5	10.7	55.7	31750.0	1.2	0.0	97.7	8	11	12	16	200.7	10	
Local Seed	LC0607 TCRIB	206.0	17.7	11.7	54.0	32625.0	23.5	0.0	96.7	9	7	18	19	196.8	16	
AgVenture	AV6409AM	204.4	18.7	10.9	52.6	32625.0	3.8	0.0	96.0	10	6	14	9	200.2	11	
Mid-Atlantic Seeds	MA8066SS	203.8	20.1	10.1	54.8	32375.0	2.3	0.0	95.7	11	9	15	10	199.2	12	
AgVenture	AV7408AM	202.2	19.2	10.6	52.8	31750.0	13.1	1.2	94.9	12	1	8	5	208.4	3	220.6
Seed Consultants	SCS 1087AM	201.8	19.3	10.5	53.3	31500.0	16.9	0.0	94.7	13	5	6	3	207.8	4	221.7
Mid-Atlantic Seeds	MA8039VT2P	200.4	18.3	11.0	55.2	30875.0	17.6	0.0	94.1	14	19	21	12	190.6	19	
Local Seed	LC0999 VT2PRIB	199.5	18.8	10.7	55.3	32125.0	10.0	0.0	93.7	15	15	11	13	197.5	15	
AgVenture	AV4810AM	196.1	20.6	9.5	55.1	33000.0	19.7	1.1	92.1	16	12	10	15	198.7	13	
NK	NK1082-5222	195.5	20.3	9.6	51.7	31250.0	2.9	0.5	91.8	17	21	17	7	191.6	18	
MorCorn	MC3952	194.3	18.6	10.4	55.5	32625.0	7.8	0.4	91.2	18	14	4	2	203.5	8	215.0
Blue River Organic Seed	48G35	193.4	17.5	11.1	53.0	32625.0	1.6	3.2	90.8	19	24	23	20	170.7	22	
Seed Consultants	SCS 1069AM	189.7	20.1	9.4	55.2	33000.0	18.6	0.0	89.1	20	18	16	14	189.6	20	211.7
LG Seeds	LG57C97VT2PRO	187.6	19.8	9.5	56.7	33000.0	20.5	0.4	88.1	21	17	19	21	186.5	21	
Dyna-Gro	D52VC63 (Check)	186.3	21.2	8.8	52.2	32500.0	35.8	2.7	87.5	22	3	7	6	203.6	7	
Blue River Organic Seed	54C27	178.2	20.1	8.9	52.6	31375.0	25.7	0.8	83.7	23	22	24	25	162.1	23	
Blue River Organic Seed	51T59	162.6	17.8	9.1	54.0	31625.0	51.7	2.0	76.3	24	25	22	23	160.1	24	
Blue River Organic Seed	57A30	147.2	17.7	8.3	51.1	32125.0	64.6	0.0	69.1	25	23	25	24	152.4	25	
	Check Avg.	213.0	21.4	10.0	52.3	32312.5	17.9	1.6								
	•	198.8	21.4 19.6		53.8	32065.0	17.9	0.7								
	Test Avg. LSD (0.05)	198.8	19.6	10.2 0.9	1.32	32065.0 NS	17.1	NS								
	C.V.	5.5	2.9					179.3								
	% C.V. Check Avg. + LSD (0.05)	5.5 230.6	2.9	5.4	1.5	3.3	78.5	1/9.3								

CHECK AVg.	213.0	21.4	10.0	32.5	32312.3	17.5	1.0
Test Avg.	198.8	19.6	10.2	53.8	32065.0	17.1	0.7
LSD (0.05)	17.6	1.0	0.9	1.32	NS	19.1	NS
% C.V.	5.5	2.9	5.4	1.5	3.3	78.5	179.3
	220.0						

Check Avg. + LSD (0.05) 230.6

										formance Su nty) Laurel, I						
Planted 5/8/2020 & Har	vested September 17, Ear	ly-Mediu	m Hybrids			Plum	Creek Fa	rms, LLC	Sussex Cou	nty) Laurei,		ormance Ranl	king for	Poole	d sites	
Brand		Yield Bu/A ¹	%	Yield/	Test	Final	% Stalk	% Root	% Relative Yield to	Laurel	Georgetown	Marydel	Middletown	Yield Avg.	De al	Two Yea Yield Ave
	Hybrid		Moisture	Moisture	Weight	Pop	Lodging	Lodging	Check Avg.	Irrigated	Irrigated	Irrigated	Dry land	Bu/A	Rank	Bu/A
Local Seed	LC1407 VT2RIB	232.8	22.5	10.3	53.1	31875.0	5.2	0.0	120.1	1	1	13	7	217.1 218.7	5	
Local Seed	LC1398 VT2PRIB	232.6	20.6	11.3	54.1	33000.0	21.2	0.0	120.0	2	9	7	2	-	3	
Local Seed	LC1207 TCRIB	232.3	20.4	11.4	51.9	29375.0	0.5	0.0	119.8	3	4	10	1	221.2	1	
Seed Consultants	SCS 1111Q	231.5	21.1	11.0	54.0	32500.0	19.8	0.0	119.4	4	10	12	17	213.3	6	
Mid-Atlantic Seeds	MA8117TRE	230.8	20.3	11.4	52.3	31625.0	3.8	0.0	119.1	5	3	9	5	217.3	4	
LG Seeds	LG60C47 STX Rib	225.3	19.4	11.6	52.9	33000.0	8.0	0.0	116.3	6	15	14	14	209.2	7	
Mid-Atlantic Seeds	MA8141DGVT2P	225.2	22.3	10.1	54.1	31625.0	0.8	0.0	116.2	7	2	2	3	219.8	2	
AgVenture	AV5911AM	217.5	20.7	10.5	52.4	30750.0	12.3	0.0	112.2	8	22	16	13	201.7	13	
LG Seeds	LG62C02 VT2RIB	214.0	20.6	10.4	54.1	31625.0	21.6	0.0	110.4	9	18	3	19	206.4	9	224.0
AgVenture	AV8614AM	208.9	21.9	9.6	53.7	33000.0	20.1	0.4	107.8	10	17	23	8	198.4	19	
Local Seed	LC1488 VT2PRIB	205.2	20.1	10.2	53.5	32625.0	34.4	0.0	105.9	11	23	4	21	198.7	18	
AgVenture	AV8714AM	203.0	22.0	9.2	53.5	30125.0	32.5	0.0	104.7	12	6	22	16	199.8	17	220.8
AgVenture	AV4313AM	199.0	20.9	9.5	53.9	32625.0	31.5	0.0	102.7	13	16	15	12	201.2	16	
Seed Consultants	SCS 1121 AM	196.6	20.5	9.6	53.2	29500.0	13.1	0.0	101.5	14	21	18	20	194.0	20	
MorCorn	MC4319	195.7	20.5	9.6	54.6	32750.0	24.7	0.0	97.4	15	13	17	9	201.3	15	219.7
DeKalb	DKC65-95RIB (Check)	194.9	21.0	9.3	55.6	30250.0	38.7	0.4	100.6	16	7	20	6	201.4	14	
Dyna-Gro	D54VC52 (Check)	192.8	21.5	9.0	53.4	27000.0	5.9	0.0	99.5	17	11	21	22	193.5	21	
Local Seed	LC1497 DGVT2PRIB	189.8	20.5	9.3	53.9	29625.0	54.8	0.4	97.9	18	5	1	15	207.1	8	
Mission Seed Solutions	A1257VT2P	186.8	21.0	8.9	52.6	30625.0	35.6	0.0	96.4	19	12	6	11	203.8	11	
Local Seed	LC1289 VT2PRIB	186.1	21.1	8.8	51.6	32875.0	46.0	0.0	92.4	20	14	5	4	204.5	10	
MorCorn	MC4255	185.4	20.9	8.9	52.1	30625.0	35.1	0.0	95.7	21	8	11	18	202.0	12	218.8
Seed Consultants	SCS 1141 AM	183.4	22.6	8.1	53.9	31500.0	56.2	0.0	94.6	22	19	19	10	193.1	22	
NK	NK1460-5222	181.7	18.5	9.8	51.8	32500.0	59.6	0.0	93.7	23	27	27	23	175.6	25	
Mid-Atlantic Seeds	MA8128VT2P	180.7	20.1	9.0	53.4	29500.0	29.8	0.0	93.2	24	20	8	26	191.9	23	
Blue River Organic Seed	64K93	176.6	20.2	8.8	53.8	30375.0	56.2	0.0	91.1	25	24	24	24	177.2	24	
Blue River Organic Seed	68C37	175.7	19.8	8.9	53.8	31750.0	47.5	0.0	90.7	26	26	25	28	170.9	26	
NK	NK1239-5122	171.9	18.5	9.3	53.7	30000.0	50.4	2.0	88.7	27	25	29	25	167.4	27	
Blue River Organic Seed	70A47	163.0	20.8	7.8	52.4	31500.0	60.2	0.0	84.1	28	28	28	27	162.4	29	
Blue River Organic Seed	66G25	159.2	20.4	7.8	54.8	30875.0	46.7	0.0	82.1	29	29	26	29	165.0	28	
	Check Avg.	193.8	21.3	9.1	54.5	28625.0	22.3	0.2								
	Test Avg.	199.2	20.7	9.6	53.4	31206.9	30.1	0.1								
	LSD (0.05)	24.4	0.9	1.1	1.3	2444.2	34.0	0.9								
	% C.V.	7.6	2.7	6.9	1.6	4.8	84.8	186.7								
	Check Avg. + LSD (0.05)	218.2														

						Plum	Creek Fa	rms, LLC	Sussex Cour	nty) Laurel,	Delaware					
Planted 5/8/2020 & Har	vested September 17, Me	edium Hyb	orids								Perfo	ormance Rank	ing for	Poole	d sites	1
Brand	Hybrid	Yield Bu/A ¹	% 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	Two Yea Yield Ave Bu/A
Seed Consultants	SCS 1158 AM	238.9	21.8	11.0	52.8	31750.0	26.4	0.0	103.9	1	4	17	6	217.0	7	54,11
DeKalb	DKC70-27RIB (Check)	231.3	25.1	9.3	51.9	30750.0	27.3	0.0	100.6	2	3	1	4	224.7	1	
Dyna-Gro	D58VC65 (Check)	228.4	23.4	9.8	53.5	33000.0	1.9	0.0	99.4	3	9	8	1	220.1	3	
Local Seed	LC1577 VT2PRIB	224.0	22.8	9.8	53.8	31125.0	25.0	0.4	97.4	4	7	12	2	217.5	5	
MorCorn	MC4725	219.9	23.7	9.3	52.7	32750.0	15.0	0.0	95.7	5	6	2	3	220.8	2	
Mission Seed Solutions	A1548DGVT2P	219.8	23.1	9.6	53.3	30750.0	28.5	0.0	95.6	6	5	7	9	217.3	6	
LG Seeds	LG5643 VT2RIB	218.3	22.2	9.9	52.8	30125.0	27.4	0.4	95.0	7	2	4	8	217.8	4	
Seed Consultants	SCS 1188 AM	206.2	21.9	9.5	53.9	33000.0	14.0	0.4	89.7	8	16	15	13	202.6	13	212.7
MorCorn	MC4670	206.0	22.4	9.2	53.5	30125.0	25.7	0.0	89.6	9	1	3	12	214.6	8	
Local Seed	LC1806 VT2PRIB	200.5	21.5	9.3	54.8	29125.0	49.4	0.0	87.2	10	13	16	16	200.9	15	
Mission Seed Solutions	A7516Q	198.1	23.2	8.6	54.0	32375.0	24.7	0.0	86.2	11	12	5	5	209.6	9	
Local Seed	LC1898 TC	196.5	18.1	10.9	54.0	29500.0	6.8	0.0	85.5	12	15	13	17	193.8	17	
Local Seed	LC1697 VT2PRIB	195.8	21.9	9.0	55.4	31250.0	7.9	0.0	85.2	13	14	9	15	202.6	14	
Mission Seed Solutions	A1857VT2P	194.5	20.9	9.4	55.2	32000.0	23.2	0.0	84.6	14	11	6	10	208.1	11	
Mid-Atlantic Seeds	MA8158SS	194.0	23.3	8.3	53.7	32000.0	44.5	0.0	84.4	15	10	11	7	208.8	10	
LG Seeds	LG66C32 VT2RIB	190.9	22.3	8.6	53.2	33000.0	15.9	0.0	83.0	16	8	10	11	206.5	12	222.4
Mid-Atlantic Seeds	MA5155GT3VIP	187.9	24.4	7.7	52.3	32000.0	38.8	1.5	81.7	17	17	14	14	194.9	16	
	Check Ave.	229.9	24.2	9.5	52.7	31875.0	14.6	0.0								
	Test Ave.	208.9	22.5	9.3	53.6	31448.5	23.7	0.0								
		22.4	4.0		4.0			0.0								

Test Net.
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Check Avg. + LSD (0.05)
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Planted 5/11/2020 & H	arvested September 23, E	arly Hybri	ds						-		Perfe	ormance Ranl	king for	Pooled	d sites	
		Yield	%	Yield/	Test	Final	% Stalk	% Root	% Relative Yield to	Georgetown	Laurel	Marydel	Middletown	Yield Avg.		Two Yea
Brand	Hybrid	Bu/A ¹	Moisture	Moisture	Weight	Рор	Lodging	Lodging	Check Avg.	Irrigated	Irrigated	Irrigated	Dry land	Bu/A	Rank	Bu/A
AgVenture	AV7408AM	210.7	19.6	10.7	54.0	32125.0	0.0	0.0	101.1	1	12	8	5	208.4	3	220.6
DeKalb	DKC62-53RIB (Check)	210.2	19.6	10.8	52.7	32000.0	0.0	0.0	100.9	2	1	2	1	219.9	1	
Dyna-Gro	D52VC63 (Check)	206.6	21.1	9.8	53.1	33000.0	0.0	0.0	99.1	3	22	7	6	203.6	7	
Mid-Atlantic Seeds	MA8091VT2P	204.2	20.7	9.9	53.9	32625.0	0.0	0.0	98.0	4	6	9	4	209.1	2	
Seed Consultants	SCS 1087AM	203.8	19.6	10.4	53.8	33000.0	2.7	0.8	97.8	5	13	6	3	207.8	4	221.7
AgVenture	AV6409AM	197.1	19.1	10.3	54.2	32250.0	0.0	0.0	94.6	6	10	14	9	200.2	11	
Local Seed	LC0607 TCRIB	196.2	18.2	10.8	55.2	32500.0	0.0	0.0	94.1	7	9	18	19	196.8	16	
Local Seed	LC1009 VT2PRIB	196.0	20.0	9.9	54.5	32250.0	0.8	0.0	94.0	8	5	5	11	205.1	6	
Mid-Atlantic Seeds	MA8066SS	195.8	20.5	9.6	54.9	31875.0	0.0	0.0	94.0	9	11	15	10	199.2	12	
LG Seeds	LG59C72VT2RIB	195.3	19.2	10.2	53.2	32625.0	0.0	0.0	93.7	10	7	20	22	194.4	17	
Local Seed	LC0297 SSX	195.0	18.8	10.4	55.6	31875.0	0.4	0.0	93.6	11	8	12	16	200.7	10	
AgVenture	AV4810AM	193.7	20.8	9.3	55.3	33000.0	1.1	0.0	92.9	12	16	10	15	198.7	13	
Seed Consultants	SCS 1071AM	192.9	18.7	10.3	54.3	32750.0	3.0	0.0	92.6	13	2	3	8	207.1	5	
MorCorn	MC3952	192.0	18.1	10.6	55.6	32875.0	1.1	0.0	92.1	14	18	4	2	203.5	8	215.0
Local Seed	LC0999 VT2PRIB	186.6	18.4	10.2	55.1	32625.0	0.0	0.0	89.6	15	15	11	13	197.5	15	
AgVenture	AV7808AM	182.8	20.8	8.8	55.1	31875.0	0.8	1.2	87.7	16	4	13	17	197.5	14	217.0
LG Seeds	LG57C97VT2PRO	179.6	19.5	9.2	55.9	31875.0	1.2	0.0	86.2	17	21	19	21	186.5	21	
Seed Consultants	SCS 1069AM	178.8	19.7	9.1	54.0	32875.0	1.5	0.0	85.8	18	20	16	14	189.6	20	211.7
Mid-Atlantic Seeds	MA8039VT2P	178.6	18.0	10.0	56.4	32500.0	0.0	0.0	85.7	19	14	21	12	190.6	19	
Mid-Atlantic Seeds	MA8106VT2P	177.0	18.9	9.4	55.3	32625.0	0.0	0.0	84.9	20	3	1	18	201.4	9	
NK	NK1082-5222	173.9	19.3	9.1	52.5	32250.0	1.2	0.0	83.4	21	17	17	7	191.6	18	
Blue River Organic Seed	54C27	150.8	20.0	7.5	54.6	31500.0	23.0	0.0	72.4	22	23	24	25	162.1	23	
Blue River Organic Seed	57A30	147.3	17.7	8.3	52.7	32375.0	9.7	0.0	70.7	23	25	25	24	152.4	25	
Blue River Organic Seed	48G35	145.7	17.5	8.3	52.3	32125.0	1.9	0.0	69.9	24	19	23	20	170.7	22	
Blue River Organic Seed	51T59	143.0	17.9	8.0	54.1	32875.0	15.2	1.2	68.6	25	24	22	23	160.1	24	

% CV	3.9	3.0	4.4	1.6	1.6	109.9	152.8	
LSD (0.05)	10.8	1.0	0.7	1.3	900.1	7.4	0.7	
Test Average	185.3	19.3	9.6	54.3	32410.0	2.5	0.1	
Check Average	208.4	20.3	10.3	52.9	32500.0	0.0	0.0	

Check Avg. + LSD (0.05) 219.2

										formance Su r (Sussex Cou		town Dolaw	uaro.			
Planted 5/11/2019 & Ha	rvested September 23, Ea	arlv-Mediu	um Hybrids			Carve	i Researc	n & Educ	ation Cente	r (Sussex Cou		ormance Ranl		Poole	d sites	-
		Yield	%	Yield/	Test	Final	% Stalk	% Root	% Relative Yield to	Georgetown	Laurel	Marydel	Middletown	Yield Avg.		Two Yea Yield Ave
Brand	Hybrid	Bu/A ¹	Moisture	Moisture	Weight	Рор	Lodging	Lodging	Check Avg.	Irrigated	Irrigated	Irrigated	Dry land	Bu/A	Rank	Bu/A
Local Seed	LC1407 VT2RIB	210.3	21.9	9.6	53.4	33000.0	0.4	0.0	106.0	1	1	13	7	217.1	5	
Mid-Atlantic Seeds	MA8141DGVT2P	210.0	22.2	9.5	53.4	32625.0	0.4	0.0	105.8	2	7	2	3	219.8	2	
Mid-Atlantic Seeds	MA8117TRE	205.3	20.2	10.2	52.3	31625.0	0.8	0.0	103.5	3	5	9	5	217.3	4	
Local Seed	LC1207 TCRIB	203.2	19.4	10.5	52.6	32000.0	0.4	0.0	102.4	4	3	10	1	221.2	1	
Local Seed	LC1497 DGVT2PRIB	203.1	18.9	10.8	51.5	32000.0	0.0	0.0	102.4	5	18	1	15	207.1	8	
AgVenture	AV8714AM	201.7	22.2	9.1	53.2	31625.0	0.8	0.0	101.7	6	12	22	16	199.8	17	220.8
DeKalb	DKC65-95RIB (Check)	201.6	20.9	9.7	55.2	31875.0	0.4	0.0	101.6	7	16	20	6	201.4	14	
MorCorn	MC4255	200.6	20.6	9.8	53.4	32125.0	0.0	0.0	101.1	8	21	11	18	202.0	12	218.8
Local Seed	LC1398 VT2PRIB	198.9	20.4	9.8	53.9	32625.0	0.8	0.0	100.3	9	2	7	2	218.7	3	_
Seed Consultants	SCS 1111Q	198.1	20.8	9.6	54.7	31625.0	0.8	3.2	99.9	10	4	12	17	213.3	6	
Dyna-Gro	D54VC52 (Check)	195.2	21.3	9.2	53.7	29250.0	0.5	1.2	98.4	11	17	21	22	193.5	21	
Mission Seed Solutions	A1257VT2P	194.5	20.8	9.4	52.7	31500.0	0.4	0.0	98.0	12	19	6	11	203.8	11	
MorCorn	MC4319	193.5	21.8	8.9	53.6	32500.0	0.0	0.8	97.5	13	15	17	9	201.3	15	219.7
Local Seed	LC1289 VT2PRIB	191.6	20.4	9.4	53.8	32625.0	0.8	0.0	96.6	14	20	5	4	204.5	10	
LG Seeds	LG60C47 STX Rib	191.6	19.2	10.0	54.0	33000.0	0.0	0.0	96.6	15	6	14	14	209.2	7	
AgVenture	AV4313AM	189.4	20.8	9.1	53.2	32250.0	0.4	0.0	95.4	16	13	15	12	201.2	16	
AgVenture	AV8614AM	188.1	22.5	8.4	52.4	32875.0	0.0	0.0	94.8	17	10	23	8	198.4	19	
LG Seeds	LG62C02 VT2RIB	182.0	19.2	9.5	55.8	32500.0	0.4	0.0	91.7	18	9	3	19	206.4	9	224.0
Seed Consultants	SCS 1141 AM	180.0	20.9	8.6	54.5	31875.0	0.8	0.8	90.7	19	22	19	10	193.1	22	
Mid-Atlantic Seeds	MA8128VT2P	177.9	20.2	8.8	54.7	31750.0	0.0	4.2	89.6	20	24	8	26	191.9	23	
Seed Consultants	SCS 1121 AM	177.1	20.3	8.7	53.9	31375.0	5.6	0.0	89.3	21	14	18	20	194.0	20	
AgVenture	AV5911AM	175.1	20.1	8.7	54.3	30625.0	2.9	0.0	88.3	22	8	16	13	201.7	13	
Local Seed	LC1488 VT2PRIB	167.8	18.7	9.0	55.2	33000.0	0.4	0.0	84.6	23	11	4	21	198.7	18	
Blue River Organic Seed	64K93	160.7	19.5	8.3	53.4	31625.0	6.3	0.0	81.0	24	25	24	24	177.2	24	
NK	NK1239-5122	160.6	18.3	8.8	52.7	32875.0	0.8	1.2	81.0	25	27	29	25	167.4	27	
Blue River Organic Seed	68C37	160.3	19.8	8.1	53.9	31750.0	5.9	0.0	80.8	26	26	25	28	170.9	26	
NK	NK1460-5222	160.1	18.5	8.7	52.3	32750.0	0.4	0.0	80.7	27	23	27	23	175.6	25	
Blue River Organic Seed	70A47	157.4	20.0	7.9	54.7	32250.0	1.6	0.0	79.3	28	28	28	27	162.4	29	
Blue River Organic Seed	66G25	156.8	18.8	8.4	55.9	31500.0	1.6	0.0	79.0	29	29	26	29	165.0	28	
	Check Ave.	198.4	21.1	9.4	54.4	30562.5	0.4	0.6								
	Test Ave.	185.9	20.3	9.2	53.7	32035.0	1.1	0.4								
	LSD (0.05)	14.6	1.2	0.7	1.2	1123.8	3.6	NS								
	% CV	5.3	3.8	5.1	1.5	2.1	171.9	188.1								
	Check Avg. + LSD (0.05)	213.0														

Diamate of 5 (44 (2040 0 11-		a dlama the	te al de	ed 5/11/2019 & Harvested September 23, Medium Hybrids Performance Ranking for Pooled sites														
		Yield	%	Yield/	Test	Final	% Stalk	% Root	% Relative Yield to	Georgetown	Laurel	Marydel	Middletown	Yield Avg.		Two Year Yield Ave		
Brand	Hybrid	Bu/A ¹	Moisture	Moisture	Weight	Рор	Lodging	Lodging	Check Avg.	Irrigated	Irrigated	Irrigated	Dry land	Bu/A	Rank	Bu/A		
	MC4670	222.8	21.3	10.5	54.5	32750.0	1.2	0.0	103.6	1	9	3	12	214.6	8			
	LG5643 VT2RIB	219.5	21.4	10.3	52.5	32375.0	1.9	1.2	102.1	2	7	4	8	217.8	4			
	DKC70-27RIB (Check)	218.7	23.7	9.2	51.9	32625.0	0.8	0.4	101.7	3	2	1	4	224.7	1			
Seed Consultants	SCS 1158 AM	218.6	21.8	10.0	53.3	32625.0	0.4	0.0	101.7	4	1	17	6	217.0	7			
Mission Seed Solutions	A1548DGVT2P	218.1	21.7	10.1	53.4	31875.0	0.0	0.0	101.5	5	6	7	9	217.3	6			
	MC4725	216.5	22.9	9.5	53.1	32875.0	1.5	1.2	100.7	6	5	2	3	220.8	2			
Local Seed	LC1577 VT2PRIB	212.4	21.4	9.9	54.3	32000.0	0.0	0.0	98.8	7	4	12	2	217.5	5			
LG Seeds	LG66C32 VT2RIB	212.1	22.3	9.5	53.1	32375.0	0.0	0.0	98.6	8	16	10	11	206.5	12	222.4		
Dyna-Gro	D58VC65 (Check)	211.2	21.7	9.8	54.1	32375.0	0.0	0.0	98.2	9	3	8	1	220.1	3			
Mid-Atlantic Seeds	MA8158SS	210.9	22.2	9.5	55.1	31625.0	6.3	0.0	98.1	10	15	11	7	208.8	10			
Mission Seed Solutions	A1857VT2P	208.7	21.4	9.8	54.9	32750.0	1.5	0.0	97.0	11	14	6	10	208.1	11			
Mission Seed Solutions	A7516Q	204.3	23.2	8.8	53.5	31750.0	0.8	0.4	95.0	12	11	5	5	209.6	9			
Local Seed	LC1806 VT2PRIB	200.4	20.8	9.7	55.5	31125.0	0.4	0.0	93.2	13	10	16	16	200.9	15			
Local Seed	LC1697 VT2PRIB	200.2	22.2	9.0	54.9	32750.0	0.4	0.0	93.1	14	13	9	15	202.6	14			
Local Seed	LC1898 TC	193.9	18.8	10.3	55.0	32875.0	3.4	0.0	90.2	15	12	13	17	193.8	17			
Seed Consultants	SCS 1188 AM	191.7	22.5	8.6	53.1	32750.0	2.3	2.7	89.2	16	8	15	13	202.6	13	212.7		
Mid-Atlantic Seeds	MA5155GT3VIP	178.4	22.7	7.9	53.2	31875.0	1.2	1.9	83.0	17	17	14	14	194.9	16			
	Check Ave.	215.0	22.7	9.5	53	32500.0	0.4	0.2										
	Test Ave.	208.1	21.9	9.5	53.8	32316.2	1.3	0.5										
	LSD (0.05)	8.7	1.0	0.6	1.0	NS NS	NS	NS										
	% CV	2.8	3.1	4.2	1.0	2.5	154.6	155.0										
	Check Avg. + LSD (0.05)	223.7				2.5		200.0										