

NEW YORK STATE 2021 PROCESSING SWEET CORN CULTIVAR TRIAL REPORT (su, se, sh2 & Augmented types)

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We wish to thank the NYS Vegetable Research Council and Association, Ontario Processing Vegetable Growers and cooperating seed companies for their financial support of the project. We also wish to thank Michael Gardinier and Steve Lashbrook of Farm Fresh First, for their assistance in planning the trials. Special thanks to my crew, Kim Day, Carla Yannotti, and Jeremy Freere for their assistance in day-to-day operations. I dedicate all my 2021 reports to my late father, Lester W. Fillingham, may he rest in peace.

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Procedures and Materials:

Location: Cornell AgriTech (Research North) – Geneva NY

Soil Type: Honeoye silt loam

Planting Dates: su/se Types – 6/07; Yellow sh2/aug. Types – 6/25; White sh2 Types – 6/30

Row Width: 30 inches, **Row length:** 40 ft.

In-row Spacing: 11 inches

Fertilizer: 350#/A of 15-5-10 with Mn and Zn

Tillage: Conventional

Herbicide: Dual post plant

Planter - Two Row Monosem Vacuum Planter

Plot Size: 2 row - 4 replications (Replicated entries)

Objectives and Season Summary:

The trials were located at the Cornell AgriTech Vegetable Research Farm in Geneva, NY. The objective was to harvest su/se gene types at 72-75% moisture and the sh2/aug. types at 75-78% moisture. Plot size for the replicated entries was 2 rows, 40 feet in length, and 30 inches between the rows. Each cultivar has four replications. Yield data were taken from a single harvest of a 20 feet section of each of the two rows (40 row feet total). A subsample of 15 ears were used for ear data.

All plantings were sown with a Monosem vacuum planter with double disc openers. The fertilizer used was a 15-5-10 (with Mn and Zn) at a rate of 350 lbs. per acre. Fertilizer was banded two inches below and two inches to the side of the seeds at planting. Desired population was 19,000 plants per acre (11 inches in row spacing). For weed control, Dual was used at the labeled rate pre-emergence. One cultivation was made to enhance weed control and to side-dress N (was done roughly 30 days from planting (400 pounds of 22-0-0 per acre)).

Geneva NY experienced a somewhat dry and mild spring and an excessively wet July. Overall, the growing season was full of intense rains and a few dry spells. Planting conditions for both the yellow sh2/aug. and the su/se trials were satisfactory. Field conditions were slightly wet for the white sh2 trial planting. Although July was filled with excessive precipitation and relatively cool temperatures, the trials showed very limited signs of pathogens. Only secondary signs of pathogens were visible beyond the prime of the crop. Overall, it was a decent sweet corn year for our program, with the su/se trial being the most vigorous.

**A vegetable cutting was held November 5th, 2021. Samples of full cobs and kernels were microwaved and put-on display.*

Table 1: Cultivar List

| SU & SE Type | Seed Source |
|-------------------------|--------------------|
| SVSU0362 | Seminis |
| SC1263R | Seminis |
| Suza* | Harris Moran |
| GH4927 | Syngenta |
| GH6055 | Syngenta |
| Azlan | Harris Moran |
| SVSU5255 | Seminis |
| GH6462 | Syngenta |
| Generator | Harris Moran |

| Yellow sh2 & Aug. | Seed Source |
|------------------------------|--------------------|
| CSHYP16-1029 | Crookham Co. |
| Messenger | Seminis |
| ZHY1478FA | Crites |

| Yellow sh2 & Aug. | Seed Source |
|------------------------------|--------------------|
| GSS8937 | Syngenta |
| 1972XR | IFIS |
| HMX59YS718 | Harris Moran |
| ZHY10160Z | Crites |
| Harvest Gold | GVS |
| Kamet | Harris Moran |
| XTH4079 | IFIS |
| 1979MXR | IFIS |
| Bull Moose | Seminis |
| BraveHeart | Crookham Co. |
| GSS3951 | Syngenta |
| GVS7433 | GVS |
| Fortitude | Crookham Co. |
| Stagg | Seminis |
| Shiras | Seminis |
| Garrison | Syngenta |
| SV1339SK | Seminis |
| Dall | Seminis |

| White sh2 Type | Seed Source |
|-----------------------|--------------------|
| HMX59WS831 | Harris Moran |
| 3879 XR | IFIS |
| ZHW50550Y | Crites |
| Devotion | Seminis |
| Platinum XR | IFIS |

Column Descriptions for Tables 3, 6 & 9:

Ear Uniformity – Ex=excellent (entire sample was the same length, diameter and uniform tip fill); VG=very good; G=good; F=fair; P=poor

Ear Shape Rating - CY=cylindrical; SLT=slightly tapered; T=tapered

Oval/round – R=round; SLO=slightly oval; O=oval

Kernel Rowing – (The straightness of the rows of kernels.) St=straight; SL IRR=slightly irregular; IRR=quite irregular

Kernel Row Range - The number of rows around an ear listed as a range

Kernel Size Rating – S=small, M=medium, L=large

Kernel Depth (Rating) – S=shallow, M=moderate, D=deep

Pericarp – S=soft, OK=acceptable, T=tough

Flavor – P=poor, OK=acceptable, Good=better than acceptable, SW=sweet

Plant Heights – The measurement of the plant in inches from the base of the stalk to the top of the tassel.

Ear Heights – The measurement from the base of the stalk to the node at the base of the primary ear.

Column Descriptions for Tables 4, 7, & 10:

Husk Extension - The measurement in inches of the distance from the tip of the cob to where the husk opens. A negative measurement indicates exposed kernels. Exposed kernels can make the ear more susceptible to insect or bird feeding.

Ear Length - The measurement in inches of the husked ear butt to tip.

Ear Diameter - The measurement in inches of the diameter of the middle of the ear.

Unfilled Tip - The measurement in inches of the tip of the ear that had not formed kernels.

Weight. per Unhusked Ear - The weight in pounds of an unhusked ear. (Total yield weight divided by total number of ears harvested.) Comparing (weight per unhusked ear from total harvest) to the sample unhusked weight per ear indicates how valid the sampling technique is.

Sample Wt. per Unhusked Ear - The weight in pounds of an unhusked ear based on the sample 10 ears brought in from the field.

Sample Husked ear weight - The weight in pounds of a husked ear based on the sample.

Sample Kernel Weight per ear - The weight in pounds of the kernels cut from the ear.

Plants per acre - Plant Population per acre of the harvested plot (multiply number in the column by 1000). Harvest plot was two rows by 20 ft per replication.

Ears per plant - The number of ears harvested divided by the number of plants in the harvest area.

Moisture percentage - Percent Moisture of the harvest sample - A slurry of cut kernels was dried to determine the percent moisture.

Tons per Acre - The extrapolated yield of the plot listed as tons per acre. Harvest plot was two rows by 20 ft (40 row feet) per replication.

Recovery - (Sample average kernel weight per ear/Sample un-husked weight per-ear)*100

Table 2: SU & SE Maturity Metrics

| Cultivar | Days to Silk | GDD* to Silk | Days to Harvest | GDD* to Harvest | % Moist. | Seed Company Maturity |
|-----------|--------------|--------------|-----------------|-----------------|----------|-----------------------|
| SVSU0362 | 54 | 1107 | 73 | 1516 | 76.8 | 69 |
| SC1263R | 55 | 1120 | 74 | 1540 | 78.6 | 73 |
| Suza^ | 57 | 1147 | 75 | 1566 | 75 | 73 |
| GH4927 | 57 | 1147 | 78 | 1644 | 74.8 | 75 |
| GH6055 | 57 | 1147 | 81 | 1727 | 74.8 | 76 |
| Azlan | 58 | 1162 | 82 | 1749 | 73 | 74 |
| SVSU5255 | 62 | 1246 | 82 | 1749 | 77.2 | 82 |
| GH6462 | 62 | 1246 | 86 | 1846 | 71.3 | 83 |
| Generator | 65 | 1329 | 87 | 1858 | 73.2 | 85 |

**GDD base 50*

^ Planted a week later than other varieties.

Table 3: Ear, Kernel & Plant Observations (su/se) *

| Cultivar | Uniformity Rating | Ear Shape | Oval/Round | Kernel Rowing | Kernel Row Range | Kernel Size | Kernel Depth | Pericarp Rating | Flavor Rating | Plant Height (in) | Ear Height (in) |
|-----------|-------------------|-----------|------------|---------------|------------------|-------------|--------------|-----------------|---------------|-------------------|-----------------|
| SVSU0362 | G | SLT | R | ST-SL IRR | 14-18 | M | M | OK | OK | 75.5 | 20.0 |
| SC1263R | G | SLT | R | SL IRR | 18-22 | M | M | OK | OK | 81.4 | 27.4 |
| Suza^ | VG | SLT | R | ST-SL IRR | 16-20 | M | M | OK | OK | 77.6 | 20.0 |
| GH4927 | G-VG | SLT | R | SL IRR | 16-20 | M | M-D | OK | Ok | 84.2 | 32.6 |
| GH6055 | G-VG | SLT | R | SL IRR | 16-20 | L | D | OK | OK | 81.4 | 30.8 |
| Azlan | G-VG | SLT | R | SL IRR | 16-20 | M | M | OK | OK | 81.8 | 28.0 |
| SVSU5255 | G-VG | SLT | R | ST-SL IRR | 18-20 | M-L | M-D | OK | OK | 100.2 | 33.8 |
| GH6462 | VG | SLT | R | ST-SL IRR | 18-22 | M | M | OK | OK-G | 101.8 | 33.8 |
| Generator | VG | SLT | R | ST-SL IRR | 18-20 | M | M | OK | OK-G | 99.2 | 34.6 |

**See page 4 for column descriptions.*

^ Planted a week later than other varieties.

Table 4: Ear and Yield Data (su/se) *

| Cultivar | Husk Ext. (in) | Ear Length (in) | Ear Diam. (in) | Unfill. Tip (in) | Wt. per Un-husked Ear(lbs) | Samp. Wt. per Un-husked Ear (lbs) | Samp. Husked Wt. Per Ear (lbs) | Samp. Kernel Wt. Per Ear (lbs) | Plants Per Acre (1000) | Avg. Ears Per Plant | % Moist. | Tons Per Acre | Rec. % |
|-----------|----------------|-----------------|----------------|------------------|----------------------------|-----------------------------------|--------------------------------|--------------------------------|------------------------|---------------------|----------|---------------|--------|
| SVSU0362 | 1.50 | 8.89 | 1.90 | 0.68 | 0.91 | 0.92 | 0.66 | 0.42 | 18,513 | 1.02 | 76.8 | 8.5 | 43.5 |
| SC1263R | 0.84 | 8.05 | 1.96 | 0.55 | 0.85 | 0.88 | 0.61 | 0.40 | 18,295 | 1.00 | 78.6 | 7.8 | 45.6 |
| Suza^ | 1.83 | 7.69 | 2.04 | 0.53 | 0.87 | 0.85 | 0.58 | 0.43 | 18,004 | 0.96 | 75.0 | 7.5 | 52.7 |
| GH4927 | 0.40 | 8.30 | 1.99 | 0.01 | 0.95 | 1.00 | 0.69 | 0.47 | 17,569 | 1.00 | 74.8 | 8.4 | 46.9 |
| GH6055 | 0.03 | 8.63 | 2.12 | 0.75 | 0.98 | 1.02 | 0.77 | 0.58 | 16,842 | 0.98 | 74.8 | 8.1 | 55.8 |
| Azlan | 0.48 | 8.75 | 2.10 | 0.85 | 1.06 | 1.10 | 0.84 | 0.66 | 16,988 | 0.98 | 73.0 | 8.8 | 60.0 |
| SVSU5255 | 0.69 | 10.20 | 2.25 | 0.90 | 1.28 | 1.35 | 1.02 | 0.75 | 16,842 | 0.93 | 77.2 | 9.8 | 55.4 |
| GH6462 | 1.65 | 8.06 | 2.15 | 0.15 | 1.04 | 0.98 | 0.68 | 0.58 | 17,278 | 0.99 | 71.3 | 8.9 | 59.4 |
| Generator | 1.18 | 8.62 | 2.04 | 0.23 | 0.99 | 1.06 | 0.78 | 0.55 | 18,004 | 0.97 | 73.2 | 8.6 | 51.5 |

**See page 5 for column descriptions.*

^ Planted a week later than other varieties.

Cultivar Descriptions Provided by the Seed Source (su/se Types)

SVSU0362- Seminis, 69 days to maturity.

SC1263R – Seminis, yellow se, early season maturity (73 days or 1530 heat units), 74-inch plant height, 22-inch ear height, 8.0-inch ear length, 2.0-inch ear diameter, average row count is 18, HR for common rust (RpD+RpG), IR MDMV.

Suza – Harris Moran, 73 days to maturity, 8.0-inch ear length, 2.1-inch diameter, row count 16-18, IR: NCLB & Pg#11.

GH4927 – Syngenta, 75 days to maturity, ear is 8.5 inches in length and 1.9 in diameter, Rpli gene for rust resistance, Poast herbicide tolerance.

GH6055 – Syngenta. 76 days to maturity. Ear is 8.4 inches in length and 2.1 inches in diameter R: PS (Rp1-d) / MDMV.

Azlan- Harris Moran, 75 days to maturity. Ear is 8 inches in length and 2.1 inches in diameter. IR: Et, MDMV, Ps & Pg#6.

SVSU5255 – Seminis, 82 days to maturity.

GH6462 – Syngenta; 83 days to maturity; double rust genes d, g – some NCLB, SCLB, MDMV and Stewarts tolerance; great % recovery and good finished quality and color.

Generator – Harris Moran. 85 days to maturity. Ear is 8.75 inches in length and 2 inches in diameter. IR: NCLB, Et, Ps. Pg# 6.

Table 5: Maturity Metrics (yellow sh2 & Aug.)

| Cultivar | Days to Silk | GDD* to Silk | Days to Harvest | GDD* to Harvest | % Moist. | Seed Company Maturity |
|--------------|--------------|--------------|-----------------|-----------------|----------|-----------------------|
| GSS8937 | 54 | 1159 | 75 | 1631 | 77.2 | 72 |
| 1972XR | 55 | 1182 | 77 | 1660 | 78.0 | 72 |
| HMX59YS718 | 57 | 1232 | 80 | 1715 | 77.6 | 75 |
| ZHY10160Z | 61 | 1337 | 80 | 1715 | 75.6 | 75 |
| Harvest Gold | 62 | 1365 | 81 | 1737 | 76.0 | - |
| Kamet | 63 | 1393 | 81 | 1737 | 78.6 | 78 |
| XTH4079 | 63 | 1393 | 81 | 1737 | 77.0 | 79 |
| 1979MXR | 63 | 1393 | 81 | 1737 | 76.0 | 79 |
| Bull Moose | 64 | 1415 | 82 | 1754 | 78.6 | 79 |
| BraveHeart | 63 | 1393 | 82 | 1754 | 74.5 | 78 |
| GSS3951 | 65 | 1438 | 83 | 1768 | 77.5 | 81 |
| GVS7433 | 65 | 1438 | 83 | 1768 | 77.3 | 82 |
| Fortitude | 65 | 1438 | 83 | 1768 | 77.6 | 85 |
| Stagg | 66 | 1464 | 84 | 1787 | 79.0 | 80 |
| Shiras | 66 | 1464 | 84 | 1787 | 78.3 | 82 |
| Garrison | 66 | 1464 | 84 | 1787 | 78.2 | 80-85 |
| SV1339SK | 67 | 1490 | 86 | 1815 | 77.6 | 83 |
| Dall | 68 | 1511 | 87 | 1828 | 79.8 | 83 |
| CSHYP16-1029 | 68 | 1511 | 87 | 1828 | 77.5 | 84 |
| Messenger | 68 | 1511 | 87 | 1828 | 79.5 | 87 |
| ZHY1478FA | 69 | 1524 | 88 | 1846 | 80.0 | 85 |

*GDD base 50

Table 6: Ear, Kernel & Plant Observations (Yellow sh2 & Aug.) *

| Cultivar | Uniform. Rating | Ear Shape | Oval/ Round | Kernel Rowing | Kernel Row Range | Kernel Size | Kernel Depth | Peri-carp Rating | Flavor Rating | Plant Height (in) | Ear Height (in) |
|--------------|-----------------|-----------|-------------|---------------|------------------|-------------|--------------|------------------|---------------|-------------------|-----------------|
| GSS8937 | G-VG | SL TP | R | SL IRR-IRR | 14-16 | M | M-D | OK | OK-G | 78.0 | 23.5 |
| 1972XR | F-G | SL TP | R | SL IRR | 16-20 | M | M | OK | OK-G | 81.5 | 24.5 |
| HMX59YS718 | G | CYL-SL TP | R | SL IRR | 18-22 | M | M-D | OK | OK-G | 89.0 | 31.5 |
| ZHY10160Z | G | SL TP | R | SL IRR | 14-18 | M | M | OK | OK-G | 88.0 | 30.0 |
| Harvest Gold | F-G | SL TP | R | SL IRR | 16-20 | M | M | OK | OK-G | 87.0 | 30.5 |
| Kamet | G-VG | CYL-SL TP | R | SL IRR | 16-20 | M | M | OK | OK-G | 91.0 | 33.0 |
| XTH4079 | G | CYL | R | SL IRR | 18-24 | M | M | OK | OK-G | 85.5 | 31.0 |
| 1979MXR | VG | SL TP | R | SL IRR | 16-20 | M | M | OK | OK-G | 90.0 | 28.5 |
| Bull Moose | G | SL TP | R | SL IRR | 18-24 | M | M | OK | OK-G | 89.0 | 29.5 |
| BraveHeart | G-VG | SL TP | R | SL IRR | 16-20 | M | M | OK | OK-G | 89.0 | 28.0 |
| GSS3951 | VG | SL TP | R | SL IRR | 18-24 | M | M-D | OK | OK-G | 87.0 | 30.5 |

**See page 4 for column descriptions.*

Table 6: Ear, Kernel & Plant Observations (Yellow sh2 & Aug.) Cont.

| Cultivar | Uniform. Rating | Ear Shape | Oval/ Round | Kernel Rowing | Kernel Row Range | Kernel Size | Kernel Depth | Peri-carp Rating | Flavor Rating | Plant Height (in) | Ear Height (in) |
|--------------|-----------------|-----------|-------------|---------------|------------------|-------------|--------------|------------------|---------------|-------------------|-----------------|
| GVS7433 | G | SL TP | R | SL IRR | 16-20 | M | M | OK | OK-G | 94.5 | 35.0 |
| Fortitude | VG | SL TP | R | ST-SL IRR | 18-24 | M | M | OK | OK-G | 82.0 | 30.0 |
| Stagg | G-VG | SL TP | R | SL IRR | 16-20 | M | M | OK | OK-G | 77.0 | 23.0 |
| Shiras | G | SL TP | R | SL IRR-IRR | 14-20 | M | M | OK | OK-G | 91.0 | 34.0 |
| Garrison | G-VG | SL TP | R | SL IRR | 16-22 | M | M | OK | OK-G | 80.0 | 29.0 |
| SV1339SK | G-VG | CYL-SL TP | R | ST-SL IRR | 16-20 | M | M | OK | OK-G | 90.5 | 33.5 |
| Dall | G-VG | SL TP | R | SL IRR | 18-22 | M | M-D | OK | OK-G | 92.0 | 33.0 |
| CSHYP16-1029 | G-VG | SL TP | R | SL IRR | 14-20 | M | M | OK | OK-G | 85.0 | 31.5 |
| Messenger | G-VG | SL TP | R | ST-SL IRR | 18-22 | M | M | OK | OK-G | 87.0 | 33.0 |
| ZHY1478FA | VG | SL TP | R | SL IRR | 16-20 | M | M | OK | OK-G | 86.0 | 31.0 |

Table 7: Ear and Yield Data (yellow sh2 & Aug.) *

| Cultivar | Husk Ext. (in) | Ear Length (in) | Ear Diam. (in) | Unfill. Tip (in) | Weight Per Un-husked Ear (lbs) | Samp. Wt. Per Un-husked Ear (lbs) | Samp. husked Wt. Per Ear (lbs) | Samp. Kernel Wt. Per Ear (lbs) | Plants Per Acre (1000) | Avg. Ears Per Plant | % Moist. | Tons Per Acre | Rec. % |
|--------------|----------------|-----------------|----------------|------------------|--------------------------------|-----------------------------------|--------------------------------|--------------------------------|------------------------|---------------------|----------|---------------|--------|
| GSS8937 | 0.71 | 8.24 | 2.00 | 0.16 | 0.84 | 0.91 | 0.68 | 0.49 | 17424 | 0.95 | 77.2 | 7.2 | 54 |
| 1972XR | 1.29 | 8.18 | 2.01 | 0.76 | 0.92 | 0.99 | 0.72 | 0.48 | 17424 | 0.91 | 78.0 | 7.3 | 49 |
| HMX59YS718 | 1.21 | 7.75 | 2.20 | 0.08 | 0.99 | 1.07 | 0.76 | 0.53 | 17859 | 0.97 | 77.6 | 8.5 | 49 |
| ZHY10160Z | 2.00 | 8.54 | 2.01 | 0.53 | 1.03 | 0.99 | 0.70 | 0.47 | 16407 | 0.94 | 75.6 | 7.9 | 48 |
| Harvest Gold | -0.28 | 9.24 | 2.10 | 0.78 | 1.04 | 1.09 | 0.79 | 0.56 | 16843 | 0.93 | 76.0 | 8.1 | 51 |
| Kamet | 1.45 | 7.76 | 2.01 | 0.44 | 0.88 | 0.91 | 0.63 | 0.44 | 16988 | 0.99 | 78.6 | 7.2 | 48 |
| XTH4079 | 1.63 | 7.86 | 2.19 | 0.46 | 0.94 | 0.95 | 0.75 | 0.53 | 17569 | 0.98 | 77.0 | 8.2 | 55 |
| 1979MXR | 2.52 | 7.89 | 2.08 | 0.03 | 0.95 | 1.00 | 0.71 | 0.49 | 17133 | 0.92 | 76.0 | 7.5 | 48 |
| Bull Moose | 0.90 | 7.83 | 2.12 | 0.31 | 0.93 | 1.02 | 0.72 | 0.47 | 17424 | 0.95 | 78.6 | 7.7 | 46 |
| BraveHeart | 1.65 | 8.21 | 2.09 | 0.19 | 1.02 | 1.06 | 0.73 | 0.51 | 17133 | 0.95 | 74.5 | 8.3 | 49 |
| GSS3951 | 1.33 | 8.53 | 2.05 | 0.60 | 0.94 | 1.00 | 0.73 | 0.50 | 17859 | 0.97 | 77.5 | 8.1 | 50 |

**See page 5 for column descriptions.*

Table 7: Ear and Yield Data (yellow sh2 & Aug.) Cont.

| Cultivar | Husk Ext. (in) | Ear Length (in) | Ear Diam. (in) | Unfill. Tip (in) | Weight Per Un-husked Ear (lbs) | Samp. Wt. Per Un-husked Ear (lbs) | Samp. husked Wt. Per Ear (lbs) | Samp. Kernel Wt. Per Ear (lbs) | Plts. Per Acre (1000) | Avg. Ears Per Plant | % Moist. | Tons Per Acre | Rec. % |
|--------------|----------------|-----------------|----------------|------------------|--------------------------------|-----------------------------------|--------------------------------|--------------------------------|-----------------------|---------------------|----------|---------------|--------|
| GVS7433 | 1.55 | 8.52 | 2.18 | 0.62 | 0.99 | 1.08 | 0.79 | 0.55 | 17278 | 0.95 | 77.3 | 8.2 | 50 |
| Fortitude | 1.88 | 8.23 | 2.10 | 0.78 | 0.95 | 1.04 | 0.73 | 0.49 | 16843 | 0.93 | 77.6 | 7.5 | 47 |
| Stagg | 0.93 | 8.73 | 2.19 | 0.38 | 1.08 | 1.15 | 0.88 | 0.63 | 17424 | 0.92 | 79.0 | 8.6 | 54 |
| Shiras | 1.08 | 9.02 | 2.11 | 0.72 | 1.00 | 1.07 | 0.80 | 0.58 | 16988 | 0.95 | 78.3 | 8.0 | 54 |
| Garrison | 1.22 | 7.65 | 2.00 | 0.13 | 0.83 | 0.91 | 0.63 | 0.47 | 17569 | 0.95 | 78.2 | 7.0 | 52 |
| SV1339SK | 1.12 | 8.78 | 2.19 | 1.21 | 1.02 | 1.08 | 0.84 | 0.59 | 16262 | 0.96 | 77.6 | 7.9 | 55 |
| Dall | 0.58 | 9.14 | 2.19 | 0.86 | 1.04 | 1.13 | 0.89 | 0.58 | 16652 | 0.97 | 79.8 | 8.3 | 51 |
| CSHYP16-1029 | 1.20 | 8.50 | 2.01 | 0.05 | 0.91 | 0.96 | 0.72 | 0.50 | 16842 | 0.95 | 77.5 | 7.3 | 52 |
| Messenger | 2.07 | 8.78 | 2.17 | 0.30 | 1.09 | 1.16 | 0.84 | 0.59 | 17278 | 0.97 | 79.5 | 9.1 | 51 |
| ZHY1478FA | 0.88 | 8.29 | 1.99 | 0.23 | 0.97 | 1.03 | 0.69 | 0.49 | 17133 | 0.97 | 80.0 | 8.1 | 48 |

Descriptions Provided by the Seed Source (sh2 & Aug.)

Yellow Varieties:

GSS8937 – Syngenta, 72 days to maturity. Average ear length 8.1 inches and 1.8 inches in diameter. HR: Ps: (Rp1-g), MDMV: A; IR: Et.

1972XR – IFSI, 72 days to maturity; G for rust resistance, MS for NCLB, early processor with very strong yield and recovery data.

HMX59YS718 – Harris Moran, 75 days to maturity, early to main season variety with excellent yield and recovery; girthy ear, HR for Ps and IR for Et.

ZHY10160Z – Crites, 75 days to maturity. Ear length is 7.9 inches with a 2.0-inch diameter. HR: Common Rust. IR: NCLB.

Harvest Gold – Gallatin Valley Seed, 1730 HU to harvest. Ears are 8.5 inches in length and 2.1 inches in diameter. Resistance to Common rust and smut.

Kamet – Harris Moran, 78 days to maturity. Ear length is 8.25 inches and 2.1 inches in diameter. IR: Et & MDMV.

XTH4079 – IFIS, 79 days to maturity. Average plant height of 86 inches and ear height of 27 inches. Moderate resistance to NCLB and MDM.

1979MXR – IFIS, 79 days to maturity. Moderate resistance to NCLB & MDM. RpGI.

Bull Moose – Seminis, 79 days (1660 HU) to maturity. Average plant height of 84 inches and ear height of 28 inches. Average length of ear is 8.3 inches and 2.1 inches in diameter.

BraveHeart – Crookham Co., 80 days to maturity. Ear length is 8.5-9.0 inches and 1.9 inches in diameter. HR: CR, SW, NCLB & MDM.

GSS3951 – Syngenta; 82 days to maturity; 8.3-inch ear with 18-20 rows, bright color when cooked, sturdy plant that has shown to take stress and high populations better than most, d and l rust genes; good tolerance to NCLB and expected tol. to Pst.

GVS7433 – Gallatin Valley Seed, Bi-Color, 1810 HU to harvest. Ear length is 7.8-8.0 inches and diameter of 2.1 inches. Rust resistant (RpGI). Tolerant of NCLB.

Fortitude – Crookham Co., Augmented type. 85 days to maturity. Ear length is 8.5 inches and 1.8 inches in diameter. HR: NCLB. IR: Common Rust.

Stagg – Seminis, 80 days to maturity.

Shiras – Seminis, 82 days to maturity.

Descriptions provided by the Seed Source (sh2 & Aug.) Cont.

Garrison – Syngenta, 80-85 days to maturity. 7.5 inches in length and 2 inches in diameter. Tolerant to NCLB, Common Rust, Stewarts Wilt, SCLB & MDMV.

SV1339SK – Seminis, 83 days to maturity.

Dall – Seminis, 83 days to maturity.

CSHYP16-1029 – Crookham Co., 84 days to maturity.

ZHY1478 – Crites, 85 days to maturity.

Messenger (SVSK1899) – Seminis, commercial with limited seed in 2019, 87 days, excellent husk cover, late maturing with notable standability for easy harvesting; 92-inch plant height; ear height 34 inches, 8.9-inch length and 2-inch diameter ear with excellent kernel depth, suitable for cut kernel and/or corn on the cob packs; uniform ears with consistent taper, great tip fill; deep yellow kernel color, HR for RpG5; IR for MDMV/SCMV/Et.

White sh2 Types

HMX59WS831 – Harris Moran, 76-78 days to maturity. Ear length is 8.0 inches and a diameter of 2.1 inches. IR: MDMV. HR: Ps(RpG).

ZHW50550Y – Crites, 81 days to maturity.

3879XR – IFSI, 81 days to maturity, genes G, D and J for rust resistance, M for NCLB.

Devotion – Seminis; white; 82 days to maturity; 1720 heat units, 8” ear length; 1.9” ear diameter; 18 row count; high quality white sh2 with superb eating quality; IR for Stewarts wilt.

Platinum XR – IFSI, 80 days to maturity. 1137 HU to silk.

*Abbreviations of Common Sweet Corn Pathogens:

Northern Corn Leaf Blight – Et or NCLB, (*Exserohilum turcicum*)

Maize dwarf mosaic –MDMV (*Maize dwarf mosaic virus*)

Common Rust – Ps (*Puccinia sorghi*)

Stewarts wilt – Pst (*Pantoea stewartii* (ex. *Erwinia stewartii*))

Southern corn leaf blight – Bm (*Bipolaris maydis*(=*Helminthosporium maydis*))

Table 8: White sh2 Maturity Metrics

| Cultivar | Days to Silk | GDD to Silk | Days to Harvest | GDD to Harvest | % Moist. | Seed Company Maturity |
|------------|--------------|-------------|-----------------|----------------|----------|-----------------------|
| HMX59WS831 | 61 | 1314 | 84 | 1696 | 76.8 | 77 |
| ZHW5055OY | 63 | 1361 | 85 | 1715 | 75.5 | 81 |
| 3879XR | 64 | 1374 | 86 | 1728 | 77.5 | 81 |
| Devotion | 64 | 1374 | 86 | 1728 | 76.6 | 82 |
| PlatinumXR | 64 | 1374 | 87 | 1737 | 76.2 | 80 |

Table 9: Ear, Kernel & Plant Observations (White sh2) *

| Cultivar | Uniform. Rating | Ear Shape | Oval/ Round | Kernel Rowing | Kernel Row Range | Kernel Size | Kernel Depth | Pericarp Rating | Flavor Rating | Plant Height (in) | Ear Height (in) |
|------------|-----------------|-----------|-------------|---------------|------------------|-------------|--------------|-----------------|---------------|-------------------|-----------------|
| HMX59WS831 | G-VG | SL TP | R | ST- SL IRR | 16-20 | M | M | OK | OK-G | 68.0 | 20.5 |
| ZHW5055OY | VG | SL TP | R | ST- SL IRR | 16-22 | M | M | OK | OK-G | 77.0 | 24.0 |
| 3879XR | G-VG | SL TP | R | ST- SL IRR | 18-22 | M | M | OK | OK-G | 84.0 | 30.0 |
| Devotion | G-VG | SL TP | R | ST- SL IRR | 16-20 | M | M | OK | OK-G | 82.0 | 30.5 |
| PlatinumXR | G-VG | SL TP | R | ST- SL IRR | 16-20 | M | M-D | OK | OK-G | 80.0 | 28.0 |

**See page 4 for column descriptions.*

Table 10: Ear and Yield Data (White sh2) *

| Cultivar | Husk Ext. (in) | Ear Length (in) | Ear Diam. (in) | Unfill. Tip (in) | Weight Per Unhusked Ear(lbs) | Samp. Wt. Per Un-husked Ear (lbs) | Samp. husked Wt. Per Ear (lbs) | Samp. Kernel Wt. Per Ear (lbs) | Plants Per Acre (1000) | Avg. Ears Per Plant | % Moist. | Tons Per Acre | Rec. % |
|------------|----------------|-----------------|----------------|------------------|------------------------------|-----------------------------------|--------------------------------|--------------------------------|------------------------|---------------------|----------|---------------|--------|
| HMX59WS831 | 1.03 | 7.90 | 2.03 | 0.45 | 0.90 | 0.94 | 0.67 | 0.46 | 17278 | 0.97 | 76.8 | 7.5 | 49 |
| ZHW5055OY | 2.48 | 7.88 | 2.01 | 0.32 | 0.88 | 0.99 | 0.65 | 0.41 | 15972 | 0.96 | 75.5 | 6.8 | 42 |
| 3879XR | 1.52 | 7.75 | 2.00 | 0.50 | 0.88 | 0.91 | 0.63 | 0.41 | 16842 | 0.98 | 77.5 | 7.3 | 45 |
| Devotion | 1.22 | 7.43 | 1.99 | 0.27 | 0.87 | 0.93 | 0.61 | 0.41 | 16843 | 0.97 | 76.6 | 7.1 | 44 |
| PlatinumXR | 1.50 | 8.13 | 2.06 | 0.69 | 0.86 | 0.91 | 0.68 | 0.50 | 16552 | 0.96 | 76.2 | 6.8 | 55 |

**See page 5 for column descriptions.*

Table 8. Weather Summary for Geneva NY

| Day | Avg. Temp. (F) | Min. Temp. (F) | Max. Temp. (F) | Precip. (in) | Monthly Acc. Precip. | Degree days base 50 | Acc. dd units base 50 |
|---------|----------------|----------------|----------------|--------------|----------------------|---------------------|-----------------------|
| 6/7/21 | 78.3 | 65.3 | 89.8 | 0.06 | 0.06 | 28 | 28 |
| 6/8/21 | 74.6 | 69.3 | 83.1 | 0.31 | 0.37 | 26 | 54 |
| 6/9/21 | 74.5 | 66.9 | 79.9 | 0.00 | 0.37 | 22 | 76 |
| 6/10/21 | 69.2 | 58.3 | 80.8 | 0.00 | 0.37 | 20 | 96 |
| 6/11/21 | 68.2 | 54.7 | 82.2 | 0.00 | 0.37 | 18 | 114 |
| 6/12/21 | 68.1 | 60.6 | 79.2 | 0.00 | 0.37 | 19 | 133 |
| 6/13/21 | 71.8 | 56.5 | 83.8 | 0.00 | 0.37 | 20 | 153 |
| 6/14/21 | 67.5 | 59.7 | 74.5 | 0.49 | 0.86 | 17 | 171 |
| 6/15/21 | 62.6 | 59.2 | 70.3 | 0.01 | 0.87 | 15 | 185 |
| 6/16/21 | 60.6 | 51.8 | 68.9 | 0.01 | 0.88 | 10 | 196 |
| 6/17/21 | 63.9 | 52.7 | 75.4 | 0.00 | 0.88 | 14 | 210 |
| 6/18/21 | 68.3 | 54.9 | 79.2 | 0.01 | 0.89 | 18 | 227 |
| 6/19/21 | 74.7 | 63.7 | 85.5 | 0.20 | 1.09 | 25 | 252 |
| 6/20/21 | 71.2 | 58.1 | 84.2 | 0.00 | 1.09 | 21 | 273 |
| 6/21/21 | 75.0 | 66.4 | 89.1 | 0.81 | 1.90 | 27 | 300 |
| 6/22/21 | 58.2 | 52.7 | 64.4 | 0.00 | 1.90 | 7 | 307 |
| 6/23/21 | 60.6 | 48.6 | 73.9 | 0.00 | 1.90 | 11 | 318 |
| 6/24/21 | 67.4 | 52.9 | 78.4 | 0.00 | 1.90 | 16 | 334 |
| 6/25/21 | 72.2 | 61.9 | 82.9 | 0.00 | 1.90 | 22 | 357 |
| 6/26/21 | 77.3 | 68.2 | 88.9 | 0.00 | 1.90 | 29 | 385 |
| 6/27/21 | 81.9 | 71.6 | 92.3 | 0.00 | 1.90 | 32 | 417 |
| 6/28/21 | 83.8 | 75.7 | 93.0 | 0.00 | 1.90 | 34 | 451 |
| 6/29/21 | 79.8 | 70.5 | 95.4 | 0.24 | 2.14 | 33 | 484 |
| 6/30/21 | 76.3 | 70.7 | 83.5 | 0.12 | 2.26 | 27 | 511 |

Table 8. Weather Summary for Geneva NY

| Day | Avg. Temp. (F) | Min. Temp. (F) | Max. Temp. (F) | Precip. (in) | Monthly Acc. Precip. | Degree days base 50 | Acc. dd units base 50 |
|---------|----------------|----------------|----------------|--------------|----------------------|---------------------|-----------------------|
| 7/1/21 | 70.5 | 64.8 | 75.0 | 0.00 | 0.00 | 19 | 530 |
| 7/2/21 | 63.5 | 58.8 | 70.3 | 0.80 | 0.80 | 15 | 545 |
| 7/3/21 | 65.1 | 60.3 | 72.5 | 0.07 | 0.87 | 16 | 561 |
| 7/4/21 | 67.0 | 59.2 | 74.3 | 0.00 | 0.87 | 16 | 577 |
| 7/5/21 | 72.2 | 55.0 | 89.1 | 0.00 | 0.87 | 22 | 599 |
| 7/6/21 | 79.8 | 73.6 | 85.6 | 0.00 | 0.87 | 30 | 629 |
| 7/7/21 | 70.3 | 61.0 | 76.6 | 0.84 | 1.71 | 19 | 648 |
| 7/8/21 | 68.5 | 61.2 | 77.5 | 0.38 | 2.09 | 20 | 667 |
| 7/9/21 | 69.0 | 63.9 | 77.9 | 0.40 | 2.49 | 21 | 688 |
| 7/10/21 | 67.2 | 61.5 | 74.1 | 0.01 | 2.50 | 17 | 705 |
| 7/11/21 | 64.5 | 59.4 | 70.9 | 0.28 | 2.78 | 15 | 720 |
| 7/12/21 | 67.0 | 61.7 | 74.5 | 0.39 | 3.17 | 18 | 739 |
| 7/13/21 | 75.5 | 68.0 | 85.3 | 0.13 | 3.30 | 27 | 765 |
| 7/14/21 | 73.4 | 68.5 | 82.8 | 0.19 | 3.49 | 26 | 791 |
| 7/15/21 | 76.3 | 64.2 | 87.1 | 0.00 | 3.49 | 26 | 817 |
| 7/16/21 | 72.0 | 66.0 | 76.5 | 0.00 | 3.49 | 21 | 837 |
| 7/17/21 | 64.0 | 61.7 | 67.3 | 1.62 | 5.11 | 15 | 852 |
| 7/18/21 | 67.5 | 61.3 | 75.9 | 0.08 | 5.19 | 19 | 870 |
| 7/19/21 | 73.0 | 61.5 | 83.1 | 0.00 | 5.19 | 22 | 893 |
| 7/20/21 | 74.5 | 64.6 | 85.8 | 0.05 | 5.24 | 25 | 918 |
| 7/21/21 | 65.7 | 61.7 | 72.9 | 0.00 | 5.24 | 17 | 935 |
| 7/22/21 | 66.5 | 58.6 | 74.0 | 0.00 | 5.24 | 16 | 951 |
| 7/23/21 | 68.5 | 59.9 | 77.5 | 0.00 | 5.24 | 18 | 969 |
| 7/24/21 | 68.7 | 54.7 | 78.8 | 0.00 | 5.24 | 17 | 986 |
| 7/25/21 | 75.9 | 67.5 | 83.8 | 0.26 | 5.50 | 26 | 1011 |
| 7/26/21 | 75.4 | 64.0 | 85.3 | 0.00 | 5.50 | 25 | 1036 |
| 7/27/21 | 71.6 | 65.1 | 85.3 | 0.05 | 5.55 | 25 | 1061 |
| 7/28/21 | 66.3 | 58.3 | 75.2 | 0.00 | 5.55 | 16 | 1078 |
| 7/29/21 | 65.3 | 56.3 | 77.0 | 0.04 | 5.59 | 17 | 1094 |
| 7/30/21 | 65.0 | 57.2 | 68.4 | 0.00 | 5.59 | 13 | 1107 |
| 7/31/21 | 63.3 | 51.8 | 73.4 | 0.00 | 5.59 | 13 | 1120 |

Table 8. Weather Summary for Geneva NY

| Day | Avg. Temp. (F) | Min. Temp. (F) | Max. Temp. (F) | Precip. (in) | Monthly Acc. Precip. | Degree days base 50 | Acc. dd units base 50 |
|---------|----------------|----------------|----------------|--------------|----------------------|---------------------|-----------------------|
| 8/1/21 | 62.9 | 58.1 | 67.8 | 0.37 | 0.37 | 13 | 1133 |
| 8/2/21 | 64.5 | 55.2 | 72.9 | 0.03 | 0.40 | 14 | 1147 |
| 8/3/21 | 65.5 | 50.9 | 79.2 | 0.00 | 0.40 | 15 | 1162 |
| 8/4/21 | 68.1 | 53.6 | 80.2 | 0.00 | 0.40 | 17 | 1179 |
| 8/5/21 | 70.0 | 55.8 | 83.7 | 0.00 | 0.40 | 20 | 1198 |
| 8/6/21 | 73.4 | 57.9 | 87.1 | 0.00 | 0.40 | 23 | 1221 |
| 8/7/21 | 74.9 | 64.8 | 85.5 | 0.21 | 0.61 | 25 | 1246 |
| 8/8/21 | 73.4 | 64.2 | 85.8 | 0.01 | 0.62 | 25 | 1271 |
| 8/9/21 | 77.9 | 70.3 | 87.8 | 0.00 | 0.62 | 29 | 1300 |
| 8/10/21 | 78.6 | 71.8 | 85.5 | 0.00 | 0.62 | 29 | 1329 |
| 8/11/21 | 81.1 | 72.7 | 91.6 | 0.00 | 0.62 | 32 | 1361 |
| 8/12/21 | 79.2 | 71.8 | 88.2 | 0.00 | 0.62 | 30 | 1391 |
| 8/13/21 | 78.2 | 69.3 | 87.4 | 0.00 | 0.62 | 28 | 1419 |
| 8/14/21 | 69.0 | 58.1 | 76.5 | 0.13 | 0.75 | 17 | 1436 |
| 8/15/21 | 65.3 | 57.0 | 76.5 | 0.00 | 0.75 | 16 | 1452 |
| 8/16/21 | 66.4 | 53.4 | 79.5 | 0.00 | 0.75 | 16 | 1469 |
| 8/17/21 | 72.5 | 67.6 | 81.5 | 0.88 | 1.63 | 25 | 1493 |
| 8/18/21 | 71.9 | 70.5 | 73.9 | 1.52 | 3.15 | 22 | 1516 |
| 8/19/21 | 72.6 | 69.8 | 79.5 | 1.36 | 4.51 | 25 | 1540 |
| 8/20/21 | 75.1 | 68.2 | 82.6 | 0.00 | 4.51 | 25 | 1566 |
| 8/21/21 | 73.6 | 69.6 | 81.9 | 0.31 | 4.82 | 26 | 1591 |
| 8/22/21 | 74.7 | 66.4 | 83.7 | 0.01 | 4.83 | 25 | 1617 |
| 8/23/21 | 76.2 | 71.6 | 82.4 | 0.00 | 4.83 | 27 | 1644 |
| 8/24/21 | 76.2 | 68.9 | 85.5 | 0.00 | 4.83 | 27 | 1671 |
| 8/25/21 | 78.6 | 66.6 | 89.6 | 0.00 | 4.83 | 28 | 1699 |
| 8/26/21 | 78.2 | 71.2 | 86.0 | 0.00 | 4.83 | 29 | 1727 |
| 8/27/21 | 73.2 | 67.1 | 77.2 | 0.00 | 4.83 | 22 | 1749 |
| 8/28/21 | 73.3 | 62.2 | 84.2 | 0.00 | 4.83 | 23 | 1772 |
| 8/29/21 | 74.8 | 70.0 | 82.4 | 0.15 | 4.98 | 26 | 1799 |
| 8/30/21 | 74.6 | 68.9 | 81.5 | 0.00 | 4.98 | 25 | 1824 |
| 8/31/21 | 70.6 | 64.0 | 79.5 | 0.00 | 4.98 | 22 | 1846 |

Table 8. Weather Summary for Geneva NY

| Day | Avg. Temp. (F) | Min. Temp. (F) | Max. Temp. (F) | Precip. (in) | Monthly Acc. Precip. | Degree days base 50 | Acc. dd units base 50 |
|---------|----------------|----------------|----------------|--------------|----------------------|---------------------|-----------------------|
| 9/1/21 | 63.7 | 58.5 | 66.9 | 0.00 | 0.00 | 13 | 1858 |
| 9/2/21 | 61.7 | 55.8 | 68.5 | 0.00 | 0.00 | 12 | 1870 |
| 9/3/21 | 61.2 | 54.3 | 68.4 | 0.00 | 0.00 | 11 | 1882 |
| 9/4/21 | 65.5 | 54.7 | 76.1 | 0.00 | 0.00 | 16 | 1897 |
| 9/5/21 | 67.9 | 62.8 | 76.5 | 0.02 | 0.02 | 20 | 1917 |
| 9/6/21 | 64.9 | 60.1 | 72.5 | 0.07 | 0.09 | 16 | 1933 |
| 9/7/21 | 66.8 | 54.5 | 76.5 | 0.00 | 0.09 | 16 | 1949 |
| 9/8/21 | 67.5 | 62.2 | 72.1 | 0.07 | 0.16 | 17 | 1965 |
| 9/9/21 | 64.2 | 57.7 | 73.9 | 0.01 | 0.17 | 16 | 1981 |
| 9/10/21 | 62.1 | 55.4 | 71.2 | 0.00 | 0.17 | 13 | 1995 |
| 9/11/21 | 66.7 | 57.2 | 78.8 | 0.00 | 0.17 | 18 | 2013 |
| 9/12/21 | 70.8 | 64.0 | 76.1 | 0.00 | 0.17 | 20 | 2033 |
| 9/13/21 | 65.6 | 59.5 | 74.3 | 0.26 | 0.43 | 17 | 2049 |
| 9/14/21 | 70.9 | 58.8 | 84.9 | 0.00 | 0.43 | 22 | 2071 |
| 9/15/21 | 67.2 | 60.1 | 74.3 | 0.54 | 0.97 | 17 | 2088 |
| 9/16/21 | 63.8 | 53.8 | 73.9 | 0.00 | 0.97 | 14 | 2102 |
| 9/17/21 | 70.0 | 59.7 | 78.8 | 0.00 | 0.97 | 19 | 2121 |
| 9/18/21 | 68.1 | 58.5 | 73.6 | 0.00 | 0.97 | 16 | 2138 |
| 9/19/21 | 61.2 | 51.1 | 71.6 | 0.00 | 0.97 | 11 | 2149 |
| 9/20/21 | 63.5 | 49.6 | 77.7 | 0.00 | 0.97 | 14 | 2163 |
| 9/21/21 | 67.2 | 61.3 | 74.1 | 0.00 | 0.97 | 18 | 2180 |
| 9/22/21 | 68.8 | 65.8 | 72.1 | 0.22 | 1.19 | 19 | 2199 |
| 9/23/21 | 66.2 | 55.6 | 72.3 | 0.89 | 2.08 | 13 | 2212 |
| 9/24/21 | 57.5 | 50.5 | 67.1 | 0.00 | 2.08 | 9 | 2221 |
| 9/25/21 | 60.7 | 50.2 | 72.9 | 0.00 | 2.08 | 12 | 2233 |
| 9/26/21 | 59.2 | 49.1 | 69.8 | 0.01 | 2.09 | 9 | 2242 |
| 9/27/21 | 65.2 | 53.8 | 76.1 | 0.05 | 2.14 | 16 | 2258 |
| 9/28/21 | 59.2 | 50.0 | 66.6 | 0.00 | 2.14 | 8 | 2267 |
| 9/29/21 | 56.3 | 49.6 | 64.9 | 0.00 | 2.14 | 7 | 2274 |
| 9/30/21 | 53.2 | 47.5 | 59.0 | 0.00 | 2.14 | 3 | 2277 |