

CORNELL/NYS 2024 PROCESSING SWEET CORN CULTIVAR TRIAL REPORT (su & sh2 types)

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Procedures and Materials:

Location: Cornell AgriTech (Research North) – Geneva NY

Soil Type: Honeoye silt loam

Planting Dates: su type– 6/04; sh2 type – 6/19

Row Width: 30 inches, **Row length:** 40 feet

In-row Spacing: 9.6 inches

Fertilizer: 350#/A of 15-5-10 with Mn and Zn banded, 400#/A 22-0-0 at side-dressing

Tillage: Conventional, **Cultivation:** One cultivation about 30 days after planting

Herbicide: Dual post plant, Impact post emergence (su) and Basagran post emergence (sh2)

Insecticide: Elevest sprayed when majority of trial began silking and again 7 days later

Planter - Two Row Monosem Vacuum Planter

Plot Size: 2 row - 4 replications (3 reps for harvest and 1 for observation)

Objectives and Season Summary:

The trials were located at the Cornell AgriTech Vegetable Research Farm in Geneva, NY. The objective was to harvest su types at 71-74% moisture and the sh2 types at 76-79% 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, three for harvest and one for viewing. 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 pounds per acre. Fertilizer was banded two inches below and two inches to the side of the seeds at planting. Desired population was 21,000 plants per acre (9.6 inches in row spacing). For weed control, Dual was used at the labeled rate pre-emergence. Both su and sh2 trials received a post emergence herbicide as well, see above. 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)).

Planting conditions for the su trial were adequate, germination was strong and weed control was excellent. The su trial experienced intense rain events from tropical storm remnants but there was little impact. Yields were good to excellent. Planting conditions for the sh2 trial were ideal, germination was good and weed control was excellent. July was wet with two rain events from remnants of tropical storms. 48 days after planting, remnants from another tropical storm resulted in 4.2 inches of rain in a 24-hour period. The sh2 trial was impacted more from the intense rains than the su trial, but overall yields were good.

Table 1: 2024 Cultivar List

SU Types:

Cultivar	Seed Source	Color
IFU-7073	IFSI	Y
Azlan	HM Clause	Y
GH3840	Syngenta	Y
SVSU5824	Seminis	Y
GH3666	Syngenta	Y
GH1662	Syngenta	Y
SVSU5255	Seminis	Y
GH6462	Syngenta	Y
Highlander	IFSI	Y
Camden	Crookham	Y

SH2 Types:

Cultivar	Seed Source	Color
Column	HM Clause	Y
GSS9444	Syngenta	Y
Abundance	HM Clause	Y
SVSK4540	Seminis	Y
SVSK0834	Seminis	Y
H206760107	IFSI	Y
GV6227	GVS	Y
Zion MXR	IFSI	Y
SVSK5217	Seminis	Y
SVSK0279	Seminis	Y
Driver R	HM Clause	Y
GV6188	GVS	Y
Triple Threat	Crookham	Y
Land Cruiser	Crookham	Y
GSS3951	Syngenta	Y
Teton	IFSI	Y
GSS8871	Syngenta	Y
GSS4628	Syngenta	Y
GSS4479	Syngenta	Y
Townsend	Crookham	Y
Sequoia XR	IFSI	Y
BSS5234	Syngenta	Bi
Double Eagle	Crookham	Bi
Shenandoah XR	IFSI	Bi
Platinum XR	IFSI	W
H228072202	IFSI	W

Column Descriptions for Tables: 3 & 6

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

Ear Shape Rating – (Rating of overall ear shape with a focus on tip shape)
C=cylindrical; SL Taper=slightly tapered; T=tapered

Round. Rating – (Roundness of ear) R=round; Sl O=slightly oval; O=oval

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

Pericarp Rating – S=soft; A=acceptable; T=tough

Flavor Rating – P=poor, little to no sweetness and off flavors; A=acceptable, some sweetness and no off flavors; G=good, sweet and no off flavors; S=sweet, above average sweetness and no off flavors

Column Descriptions for Tables: 4 & 7

GDD Base 50°F – Growing degree days base 50°F from planting to harvest

Days to Harvest – Days from planting to harvest

Wt. per Un-husked Ear - The weight in pounds of an unhusked ear. (Total yield weight divided by total number of ears harvested in plot.)

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

Sample Wt. per Husked Ear – The weight in pounds of a husked ear based on the sample. Husking done by hand.

Tip Cover - The measurement in inches of the distance from the tip of the cob to where the husk opens. A negative measurement indicates exposed kernels.

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

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.

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

Kernel Depth – Kernels measured with handheld calipers, from tip of kernel to base.

Moisture % - Average moisture percentage of three replicated harvest samples.

Rec. % – Recovery percentage (Sample average kernel weight per ear/Sample un-husked weight per ear) *100

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

Plants per acre – Plant Population per acre based on population within harvest plot

Ears per Plant – The number of ears harvested divided by the number of plants in sample

Table 2: SU Trial Maturity & Plant Metrics

Cultivar	Days to Silk	GDD to Silk (Base 50°F)	Days to Harvest	GDD to Harvest (Base 50°F)	Moisture %	Plant Height (in)	Ear Height (in)
IFU-7073	61	1345	87	1825	73.9	95.2	28.7
Azlan	58	1270	84	1768	73.4	83.3	24.5
GH3840	61	1345	87	1825	75.1	98.9	29.4
SVSU5824	61	1345	85	1789	73.4	93.5	33.4
GH3666	61	1345	86	1806	75.0	102.8	38.2
GH1662	57	1241	80	1688	72.0	93.0	26.5
SVSU5255	67	1464	93	1914	75.5	102.1	34.3
GH6462	65	1423	88	1848	73.4	97.9	32.3
Highlander	66	1447	87	1825	73.5	93.2	30.2
Camden	66	1447	90	1877	72.5	93.8	33.7

Table 3: SU Ear Observations

Cultivar	Ear Uniformity Rating	Ear Shape Rating	Round. Rating	Rowing Straightness Rating	Pericarp Rating	Flavor Rating
IFU-7073	G-VG	C-SLT	R	St-Sl-irr	A	A-G
Azlan	F-G	SLT	R	St-Sl-irr	A	A
GH3840	VG	SLT	R	St-Sl-irr	A	A
SVSU5824	VG-E	SLT	R	St	A	A
GH3666	VG-E	C-SLT	R	St	A	A-G
GH1662	VG-E	SLT	R	St-Sl-irr	A	A
SVSU5255	G-VG	SLT-T	R	St-Sl-irr	A	A
GH6462	E	C-SLT	R	St-Sl-irr	A	A-G
Highlander	G-VG	SLT	R	St-Sl-irr	A	A-G
Camden	VG-E	SLT	R	St-Sl-irr	A	A-G

Table 4: SU Ear & Yield Data (Planted 6/04/2024)

Cultivar	GDD Base 50°F	Days to Harvest	Wt. per Un-husked Ear (lbs)	Sample Wt. per Un-husked Ear (lbs)	Sample Wt. per Husked Ear (lbs)	Tip Cover (in)	Unfill. Tip (in)	Ear Length (in)	Ear Diam. (in)	Kernel Row Range	Kernel Depth (mm)	Moist. %	Rec. %	Tons per Acre	Plants per Acre	Ears per Plant
IFU-7073	1825	87	1.1	1.2	1.0	1.6	0.5	8.3	2.3	16-20	14.0	73.9	51.8	11.3	21780.0	0.96
Azlan	1768	84	0.9	0.9	0.7	-0.1	1.0	8.2	2.1	16-20	12.9	73.4	48.9	9.6	22542.3	0.96
GH3840	1825	87	1.1	1.1	0.9	0.6	0.4	8.2	2.3	16-22	13.9	75.1	54.3	11.3	22760.1	0.94
SVSU5824	1789	85	0.9	1.0	0.8	0.3	0.6	8.8	2.1	16-22	13.3	73.4	53.9	10.7	22977.9	0.99
GH3666	1806	86	0.9	1.0	0.8	0.5	0.1	8.5	2.0	14-20	14.0	75.0	49.4	10.0	22651.2	0.97
GH1662	1688	80	0.7	0.8	0.6	2.2	0.6	8.2	1.9	16-20	9.9	72.0	44.6	7.7	21997.8	0.96
SVSU5255	1914	93	1.2	1.3	1.1	0.0	1.2	10.5	2.4	16-22	14.4	75.5	56.2	12.7	21453.3	0.97
GH6462	1848	88	0.9	1.0	0.8	1.1	0.0	8.3	2.1	16-20	12.7	73.4	53.8	9.8	22215.6	0.95
Highlander	1825	87	0.9	1.0	0.8	1.0	1.0	8.0	2.2	16-22	12.7	73.5	55.0	10.6	23631.3	0.97
Camden	1877	90	0.9	1.0	0.7	1.1	0.3	8.5	2.0	16-22	11.8	72.5	46.8	10.3	22869.0	0.95

Cultivar Descriptions Provided by the Seed Source (su types)

IFU-7073 – IFSI, 73 days to maturity. Treated with Vibrance Cinco, Dividend Xtreme, and Cruiser.

Azlan- HM Clause, 75 days to maturity. Disease package: HR: PS, IR: ET, MDMV. Rock solid disease package, and industry standard for early SU.

GH3840 – Syngenta. 79 days to maturity.

SVSU5824 – Seminis, 81 days to maturity. Treated with Apron XL, Dividend Extreme, Maxim 4FS, Thiram, Vitavax34, Cruiser 5FS. Disease package: Anticipated HR: RpGD, Anticipated IR: MDMV, SCMV, Pst, ET:1.

GH3666 – Syngenta, 81 days to maturity.

GH1662 – Syngenta.

SVSU5255 – Seminis, 82 days to maturity. Treated with Apron XL, Dividend Extreme, Maxim 4FS, Thiram, Vitavax34, Cruiser 5FS. Disease package: pending.

GH6462 – Syngenta, 83 days to maturity.

Highlander – IFSI, 84 days to maturity. Treated with Vibrance Cinco, Dividend Xtreme, and Cruiser. Disease package: MDMV and NCLB (MR).

Camden – Crookham, 88 days to maturity. Disease package: HR: CR, MDM, NCLM. Full season SU option. Camden has a strong disease package and produces a long ear. Its ear diameter and rowing make it a good for in cob and cut kernel segments.

Table 5: SH2 Trial Maturity & Plant Metrics

Cultivar	Days to Silk	GDD to Silk (Base 50°F)	Days to Harvest	GDD to Harvest (Base 50°F)	Moisture %	Plant Height (in)	Ear Height (in)
Column	60	1368	83	1854	77.2	80.4	27.8
GSS9444	58	1322	76	1727	77.7	78.4	26.8
Abundance	60	1368	85	1892	77.7	83.4	27.9
SVSK4540	62	1389	88	1941	79.3	83.5	29.8
SVSK0834	62	1389	81	1823	78.2	84.8	30.9
H206760107	62	1389	82	1840	76.0	82.5	31.0
GV6227	65	1431	85	1892	76.3	80.9	30.7
Zion MXR	62	1389	80	1804	75.7	82.2	28.3
SVSK5217	64	1413	83	1854	76.8	92.5	34.9
SVSK0279	67	1467	88	1941	80.8	84.1	28.6
Driver R	60	1368	78	1763	76.8	80.2	27.0
GV6188	58	1322	77	1745	77.5	79.2	27.9
Triple Threat	65	1431	86	1912	75.8	85.6	30.4
Land Cruiser	60	1368	78	1763	76.3	91.7	33.2
GSS3951	62	1389	82	1840	77.0	92.3	34.7
Teton	62	1389	80	1804	75.0	85.4	29.1
GSS8871	64	1413	83	1854	76.5	100.3	39.7
GSS4628	64	1413	84	1874	77.5	82.2	28.9
GSS4479	67	1467	88	1941	78.3	80.9	32.2
Townsend	67	1467	88	1941	76.3	84.9	27.7
Sequoia XR	65	1431	86	1912	76.5	94.0	36.0
BSS5234	58	1322	76	1727	75.2	88.1	29.3
Double Eagle	58	1322	76	1727	79.7	83.6	30.4
Shenandoah XR	62	1389	82	1840	76.2	76.1	25.3
Platinum XR	62	1389	81	1823	76.7	75.4	23.7
H228072202	62	1389	82	1840	76.2	75.1	24.4

Table 6: SH2 Ear Observations

Cultivar	Ear Uniformity Rating	Ear Shape Rating	Round. Rating	Kernel Rowing Rating	Pericarp Rating	Flavor Rating
Column	G-VG	C-SLT	R	Sl-irr-St	A	G
GSS9444	E	SLT	R	Sl-irr	A	G-S
Abundance	G	C	R	St-Sl-irr	A	A-G
SVSK4540	G-VG	C-SLT	R	St-Sl-irr	A	G-S
SVSK0834	VG-E	C-SLT	R	St	A	G-S
H206760107	VG-E	C	R	St-Sl-irr	A	G
GV6227	VG	C	R	Sl-irr	A	G
Zion MXR	VG-E	C	R	St-Sl-irr	A	G-S
SVSK5217	VG-E	C	R	St-Sl-irr	A	G
SVSK0279	G-VG	SLT	R	Sl-irr	A	G
Driver R	G-VG	SLT-T	R	St-Sl-irr	A	A-G
GV6188	VG	C-SLT	R	St-Sl-irr	A	G
Triple Threat	VG-E	C-SLT	R	St-Sl-irr	A	G-S
Land Cruiser	VG-E	C-SLT	R	St-Sl-irr	A	G
GSS3951	VG-E	C-SLT	R	St-Sl-irr	A	G-S
Teton	VG-E	C	R	St-Sl-irr	A	G-S
GSS8871	VG	SLT	R	St	A	G
GSS4628	VG-E	C-SLT	R	St-Sl-irr	A	G
GSS4479	E	C-SLT	R	St-Sl-irr	A	G-S
Townsend	VG-E	C	R	St-Sl-irr	A	G-S
Sequoia XR	VG-E	C-SLT	R	St	A	G
BSS5234	VG	C-SLT	R	St-Sl-irr	A	S
Double Eagle	VG	SLT	R	St-Sl-irr	A	G-S
Shenandoah XR	E	C-SLT	R	St-Sl-irr	A	G-S
Platinum XR	E	C-SLT	R	St-Sl-irr	A	S
H228072202	VG-E	C-SLT	R	St-Sl-irr	A	G-S

Table 7: SH2 Ear & Yield Data

Cultivar	GDD Base 50°F	Days to Harv.	Wt. per Un-husked Ear (lbs)	Sample Wt. per Un-husked Ear (lbs)	Sample Wt. per Husked Ear (lbs)	Tip Cover (in)	Unfill. Tip (in)	Ear Length (in)	Ear Diam. (in)	Kernel Row Range	Kernel Depth (mm)	Moist. %	Rec. %	Tons per Acre	Plants per Acre	Ears per Plant
Column	1854	83	1.0	1.1	0.8	0.6	0.5	8.7	2.2	16-20	14.3	77.2	53.1	10.5	22070.4	0.95
GSS9444	1727	76	0.9	1.0	0.7	2.3	0.1	8.7	2.0	14-20	12.4	77.7	43.8	8.9	21054.0	0.92
Abundance	1892	85	0.9	0.9	0.7	1.6	0.2	7.5	2.3	16-20	14.8	77.7	54.2	10.1	21925.2	0.99
SVSK4540	1941	88	0.9	1.0	0.8	0.7	0.2	7.8	2.2	14-20	13.8	79.3	54.7	9.5	21344.4	0.97
SVSK0834	1823	81	1.0	1.1	0.9	-0.1	0.6	9.0	2.2	14-18	14.2	78.2	52.4	9.5	20182.8	0.94
H206760107	1840	82	1.0	1.1	0.8	0.8	0.1	8.4	2.2	16-20	13.6	76.0	56.9	9.6	20328.0	0.97
GV6227	1892	85	1.0	1.0	0.8	-0.2	0.0	8.2	2.2	16-20	14.3	76.3	54.7	10.3	21054.0	0.97
Zion MXR	1804	80	1.0	1.0	0.8	1.4	0.7	7.8	2.3	16-22	13.5	75.7	56.5	9.8	21780.0	0.94
SVSK5217	1854	83	1.0	1.1	0.8	0.3	0.2	8.0	2.3	14-20	13.9	76.8	56.3	10.0	21634.8	0.95
SVSK0279	1941	88	0.9	0.9	0.7	1.2	0.7	8.1	2.2	14-20	13.9	80.8	55.6	8.9	20473.2	0.94
Driver R	1763	78	1.0	1.0	0.8	0.9	1.2	9.1	2.1	14-20	12.9	76.8	47.5	10.5	22070.4	0.98
GV6188	1745	77	0.9	1.0	0.8	1.9	0.0	8.3	2.1	16-20	12.8	77.5	50.1	9.1	21780.0	0.94
Triple Threat	1912	86	0.8	0.9	0.7	0.7	0.1	8.2	2.1	12-18	13.3	75.8	47.6	8.6	21054.0	0.96
Land Cruiser	1763	78	0.9	1.0	0.7	1.9	0.0	7.5	2.1	14-20	12.8	76.3	46.0	8.6	20908.8	0.94
GSS3951	1840	82	0.9	1.0	0.7	1.4	0.1	8.3	2.1	16-22	12.9	77.0	57.6	8.8	20908.8	0.95
Teton	1804	80	1.0	1.1	0.9	0.8	0.6	8.6	2.3	16-20	14.0	75.0	58.0	9.8	21344.4	0.94
GSS8871	1854	83	0.8	0.9	0.7	1.7	0.6	8.5	2.1	16-20	13.5	76.5	49.7	8.3	22215.6	0.90
GSS4628	1874	84	0.9	1.0	0.7	1.5	0.1	8.1	2.2	16-20	13.7	77.5	50.1	9.3	22360.8	0.96
GSS4479	1941	88	0.9	1.0	0.8	1.7	0.2	8.2	2.2	14-20	13.3	78.3	50.6	8.9	20908.8	0.91
Townsend	1941	88	0.9	1.0	0.8	0.9	0.0	7.9	2.1	14-22	13.4	76.3	52.0	9.1	21199.2	0.95
Sequoia XR	1912	86	1.0	1.1	0.8	1.2	0.1	8.3	2.2	14-20	13.9	76.5	49.3	10.2	20908.8	0.94

Table 7: SH2 Ear & Yield Data (Continued)

Cultivar	GDD Base 50°F	Days to Harv.	Wt. per Un-husked Ear (lbs)	Sample Wt. per Un-husked Ear (lbs)	Sample Wt. per Husked Ear (lbs)	Tip Cover (in)	Unfill. Tip (in)	Ear Length (in)	Ear Diam. (in)	Kernel Row Range	Kernel Depth (mm)	Moist. %	Rec. %	Tons per Acre	Plants per Acre	Ears per Plant
BSS5234	1727	76	0.9	0.9	0.7	1.7	0.4	7.6	2.1	16-20	12.7	75.2	50.3	9.3	22215.6	0.95
Double Eagle	1727	76	0.8	0.9	0.6	1.8	0.2	8.3	2.0	14-18	11.5	79.7	41.9	8.7	21780.0	0.95
Shenandoah XR	1840	82	1.1	1.1	0.9	0.9	0.1	8.8	2.2	14-20	12.7	76.2	52.5	11.5	21344.4	0.97
Platinum XR	1823	81	0.8	0.9	0.7	1.5	0.1	7.9	2.1	14-20	11.9	76.7	51.2	9.1	22506.0	0.96
H228072202	1840	82	0.9	1.0	0.8	0.9	0.1	8.2	2.1	14-20	12.7	76.2	51.7	9.2	20328.0	0.97

Descriptions Provided by the Seed Source (sh2)

Yellow Varieties:

Column – HM Clause, 74 days to maturity. Disease package: HR: PS, IR: ET, MDMV. Strong emergence and yields.

GSS9444 – Syngenta, 75 days to maturity.

Abundance – HM Clause, 75 days to maturity. Disease package: IR: PS. Strong yield and excellent recovery through the plant.

SVSK4540 – Seminis, 76 days to maturity. Treated with Apron XL, Dividend Extreme, Maxim 4FS, Thiram, Vitavax34, Cruiser 5FS. Disease package: Anticipated HR: RpGD, Anticipated IR: MDMV, SCMV, Pst, and ET:1.

SVSK0834 – Seminis, 77 days to maturity. Treated with Apron XL, Dividend Extreme, Maxim 4FS, Thiram, Vitavax34, Cruiser 5FS. Disease package: HR: Rp1D, IR: MDMV, SCMV, and ET:1.

H206760107 – IFSI, 81 days to maturity.

GV6227 – Gallatin Valley, 78 days to maturity. Treated with Vib, Div, Cru, and Vay. Disease package: Tolerant to Rust, NCLB. Good yield and kernel depth.

Zion MXR – IFSI, 79 days to maturity. Treated with Vibrance Cinco, Dividend Xtreme, and Cruiser. Disease package: Rust (RpGDJ), MDMV, NCLB (M). Zion MXR has exceptional kernel depth and case recovery for the cut kernel market. Zion MXR has great kernel color and flavor for the main season processing market, along with moderate resistance to NCLB.

SVSK5217 – Seminis, 79 days to maturity. Treated with Apron XL, Dividend Extreme, Maxim 4FS, Thiram, Vitavax34, Cruiser 5FS. Disease package: Anticipated HR: RpG5, Anticipated IR: , ET:1.

SVSK0279 – Seminis, 79 days to maturity. Treated with Apron XL, Dividend Extreme, Maxim 4FS, Thiram, Vitavax34, Cruiser 5FS. Disease package: Anticipated HR: RpG5, Anticipated IR: ET:1.

Driver R – HM Clause, 79 days to maturity. Disease package: HR: PS, IR: MDMV. Long ear style for maximizing yields and an impressive disease package.

GV6188 – Gallatin Valley, 79 days to maturity. Treated with Vib, Div, Cru, and Vay. Disease package: Tolerant to Rust, NCLB. Good yield and kernel depth.

Triple Threat – Crookham, 84 days to maturity. Disease package: HR: CR, MDM, and NCLB. Consistent ear shape in multiple seasons and plantings. This dependability along with a compact robust plant, and excellent kernel to cob ratio, are key reasons for its success.

Descriptions provided by the Seed Source (sh2) Cont.

Land Cruiser – Crookham, 76 days to maturity. Disease package: HR: CR and MDM. Mid-season variety that has consistent ear shape throughout the field. Strong disease package and a high row count, making this variety a standout.

GSS3951 – Syngenta, 81 days to maturity.

Teton – IFSI, 82 days to maturity. Treated with Vibrance Cinco, Dividend Xtreme, and Cruiser. Disease package: Rust (1D), MDMV (MR), and NCLB (M). Teton is a main season processing hybrid with exceptional yield and kernel recovery. A strong plant, disease package and lodging resistance provide yield protection season long.

GSS8871 – Syngenta. 82 days to maturity.

GSS4628 – Syngenta, 83 days to maturity.

GSS4479 – Syngenta, 83 days to maturity.

Townsend – Crookham, 88 days to maturity. Disease package: HR: CR, MDM, and NCLB. Townsend is a full season variety with a strong disease package. It has excellent husk protection and a standability that make this variety a standout for processing.

Sequoia XR – IFSI, 86 days to maturity. Treated with Vibrance Cinco, Dividend Xtreme, and Cruiser. Disease package: Rust (RpGD) and NCLB (MR). Sequoia XR is a late season processing hybrid with good standability and admirable kernel color. Sequoia XR has a strong disease package with high yield and recovery and is an excellent choice for cut or cob corn.

Bi-color sh2 Types:

BSS5234 – Syngenta, 76 days to maturity.

Double Eagle – Crookham, 79 days to maturity. Disease package: HR: CR, IR: NCLB and MDMV. Double Eagle combines superb emergence with a robust disease packaged to deliver a strong yield potential. Attractive ear with good color contrast.

Shenandoah XR – IFSI, 81 days to maturity. Treated with Vibrance Cinco, Dividend Xtreme, and Cruiser. Disease package: Rust (RpGDI) and NCLB (M). Shenandoah XR has a strong disease package and excellent resisting to lodging, adding to the high yield potential.

White sh2 Types:

Platinum XR – IFSI, 80 days to maturity. Treated with Vibrance Cinco, Dividend Xtreme, and Cruiser. Disease package: Rust (RpGDJ) and NCLB (M). Platinum XR has an industry-leading bright white kernel color. This full season hybrid has a good husk protection, ear size and eating quality. Great choice for both processing and fresh markets.

H228072202 – IFSI, 82 days to maturity.

Table 8: SU Weather Data

Date	Average Temp. (°F)	Max Temp. (°F)	Min Temp. (°F)	Total Precip. (inches)	Accum. Precip. (inches)	GDD (Base °F)	Accum. GDD (Base °F)
6/4/24	73.10	86.20	60.00	0.00	0.00	23	23
6/5/24	74.10	81.70	66.40	0.00	0.00	24	47
6/6/24	71.20	77.70	64.60	0.32	0.32	20	68
6/7/24	63.50	68.90	58.10	0.40	0.72	14	81
6/8/24	63.60	70.90	56.30	0.02	0.74	14	95
6/9/24	60.00	67.80	52.30	1.10	1.84	10	105
6/10/24	56.20	60.60	51.80	0.00	1.84	6	111
6/11/24	56.70	60.60	52.70	0.00	1.84	7	118
6/12/24	65.20	75.20	55.20	0.00	1.84	15	133
6/13/24	71.60	88.30	54.90	0.00	1.84	22	154
6/14/24	69.50	77.70	61.30	0.00	1.84	19	173
6/15/24	63.30	71.10	55.60	0.00	1.84	13	186
6/16/24	64.20	79.70	48.70	0.00	1.84	14	200
6/17/24	78.50	89.20	67.80	0.63	2.47	29	229
6/18/24	78.70	89.80	67.50	0.00	2.47	29	257
6/19/24	82.80	92.30	73.40	0.00	2.47	33	290
6/20/24	80.30	90.70	70.00	0.03	2.50	30	321
6/21/24	76.80	86.70	66.90	0.46	2.96	27	347
6/22/24	77.70	86.20	69.10	0.26	3.22	28	375
6/23/24	75.30	82.20	68.40	0.03	3.25	24	399
6/24/24	69.10	78.80	59.40	0.06	3.31	19	419
6/25/24	71.20	83.10	59.20	0.00	3.31	21	440
6/26/24	72.00	82.00	62.10	0.17	3.48	22	462
6/27/24	64.30	71.20	57.40	0.01	3.49	14	476
6/28/24	60.90	74.10	47.80	0.00	3.49	11	487
6/29/24	69.40	75.60	63.30	0.84	4.33	19	506
6/30/24	69.20	79.00	59.40	0.39	4.72	18	524

Table 8: SU Weather Data (Continued)

Date	Average Temp. (°F)	Max Temp. (°F)	Min Temp. (°F)	Total Precip. (inches)	Accum. Precip. (inches)	GDD (Base °F)	Accum. GDD (Base °F)
7/1/24	64.20	72.10	56.30	0.00	4.72	13	536
7/2/24	64.00	78.30	49.60	0.00	4.72	14	550
7/3/24	76.50	86.90	66.00	0.00	4.72	26	577
7/4/24	78.90	87.10	70.70	0.00	4.72	29	606
7/5/24	78.70	87.10	70.30	0.01	4.73	29	634
7/6/24	76.90	86.00	67.80	0.11	4.84	27	661
7/7/24	73.80	84.00	63.70	0.00	4.84	24	685
7/8/24	75.80	88.30	63.30	0.00	4.84	26	711
7/9/24	76.70	88.20	65.10	0.00	4.84	27	738
7/10/24	80.50	91.60	69.40	1.35	6.19	31	768
7/11/24	70.30	75.00	65.70	0.05	6.24	20	788
7/12/24	73.70	84.40	63.00	0.00	6.24	24	812
7/13/24	75.20	84.60	65.70	0.00	6.24	24	836
7/14/24	76.70	91.00	62.40	0.00	6.24	27	863
7/15/24	77.80	87.40	68.20	1.85	8.09	28	891
7/16/24	76.40	87.60	65.30	0.20	8.29	26	917
7/17/24	72.00	79.50	64.40	0.00	8.29	22	939
7/18/24	68.00	74.80	61.20	0.00	8.29	18	957
7/19/24	68.20	77.70	58.60	0.00	8.29	18	975
7/20/24	68.90	81.10	56.70	0.00	8.29	19	994
7/21/24	71.30	81.70	60.80	0.00	8.29	22	1016
7/22/24	72.80	83.50	62.10	0.02	8.31	23	1038
7/23/24	72.80	81.10	64.40	0.03	8.34	23	1061
7/24/24	76.50	86.50	66.40	0.00	8.34	26	1088
7/25/24	69.50	76.60	62.40	0.06	8.40	20	1107
7/26/24	68.70	78.60	58.80	0.00	8.40	18	1125
7/27/24	67.90	82.40	53.40	0.00	8.40	18	1143
7/28/24	71.20	84.70	57.70	0.00	8.40	21	1164
7/29/24	72.80	85.60	60.10	0.00	8.40	23	1187
7/30/24	77.30	87.30	67.30	0.07	8.47	27	1214
7/31/24	77.00	83.70	70.20	0.11	8.58	27	1241

Table 8: SU Weather Data (Continued)

Date	Average Temp. (°F)	Max Temp. (°F)	Min Temp. (°F)	Total Precip. (inches)	Accum. Precip. (inches)	GDD (Base °F)	Accum. GDD (Base °F)
8/1/24	78.50	89.40	67.50	0.00	8.58	28	1270
8/2/24	74.80	80.20	69.30	0.35	8.93	25	1294
8/3/24	74.20	80.10	68.20	0.06	8.99	24	1319
8/4/24	76.90	86.00	67.80	0.00	8.99	27	1345
8/5/24	73.80	83.70	64.00	0.40	9.39	24	1369
8/6/24	66.80	69.80	63.90	0.43	9.82	17	1386
8/7/24	67.20	76.50	57.90	0.00	9.82	17	1403
8/8/24	69.80	76.10	63.50	0.01	9.83	20	1423
8/9/24	73.50	78.60	68.40	4.16	13.99	24	1447
8/10/24	67.70	75.40	59.90	0.00	13.99	18	1464
8/11/24	65.80	73.00	58.60	0.63	14.62	16	1480
8/12/24	65.10	71.60	58.60	0.00	14.62	15	1495
8/13/24	69.00	76.60	61.50	0.00	14.62	19	1514
8/14/24	71.30	80.40	62.10	0.00	14.62	21	1536
8/15/24	73.20	83.30	63.10	0.00	14.62	23	1558
8/16/24	70.90	83.30	58.50	0.00	14.62	21	1579
8/17/24	72.10	77.50	66.70	0.01	14.63	22	1601
8/18/24	74.70	81.90	67.50	0.65	15.28	24	1626
8/19/24	61.10	67.30	55.00	0.57	15.85	11	1637
8/20/24	59.00	64.60	53.40	0.00	15.85	9	1646
8/21/24	59.60	67.50	51.80	0.22	16.07	10	1656
8/22/24	65.00	73.40	56.50	0.00	16.07	15	1670
8/23/24	67.60	77.50	57.70	0.00	16.07	17	1688
8/24/24	67.70	81.90	53.40	0.00	16.07	18	1706
8/25/24	68.60	80.20	57.00	0.00	16.07	19	1724
8/26/24	70.50	83.50	57.60	0.00	16.07	21	1745
8/27/24	73.30	86.20	60.40	0.00	16.07	23	1768
8/28/24	71.30	78.30	64.20	0.00	16.07	21	1789
8/29/24	66.50	72.30	60.60	0.04	16.11	16	1806
8/30/24	68.70	75.90	61.50	0.00	16.11	19	1825
8/31/24	73.80	81.50	66.20	0.56	16.67	24	1848
9/1/24	70.70	81.00	60.40	0.24	16.91	20	1868
9/2/24	59.70	64.40	54.90	0.00	16.91	9	1877
9/3/24	61.40	72.10	50.70	0.00	16.91	11	1888
9/4/24	61.50	74.70	48.40	0.00	16.91	12	1900
9/5/24	63.90	76.50	51.30	0.00	16.91	14	1914

Table 9: SH2 Weather Data

Date	Average Temp. (°F)	Max Temp. (°F)	Min Temp. (°F)	Total Precip. (inches)	Accum. Precip. (inches)	GDD (Base °F)	Accum. GDD (Base °F)
6/19/24	82.80	92.30	73.40	0.00	0.00	33	33
6/20/24	80.30	90.70	70.00	0.03	0.03	30	63
6/21/24	76.80	86.70	66.90	0.46	0.49	27	90
6/22/24	77.70	86.20	69.10	0.26	0.75	28	118
6/23/24	75.30	82.20	68.40	0.03	0.78	24	142
6/24/24	69.10	78.80	59.40	0.06	0.84	19	161
6/25/24	71.20	83.10	59.20	0.00	0.84	21	182
6/26/24	72.00	82.00	62.10	0.17	1.01	22	204
6/27/24	64.30	71.20	57.40	0.01	1.02	14	219
6/28/24	60.90	74.10	47.80	0.00	1.02	11	229
6/29/24	69.40	75.60	63.30	0.84	1.86	19	249
6/30/24	69.20	79.00	59.40	0.39	2.25	18	267

Table 9: SH2 Weather Data (Continued)

Date	Average Temp. (°F)	Max Temp. (°F)	Min Temp. (°F)	Total Precip. (inches)	Accum. Precip. (inches)	GDD (Base °F)	Accum. GDD (Base °F)
7/1/24	64.20	72.10	56.30	0.00	2.25	13	279
7/2/24	64.00	78.30	49.60	0.00	2.25	14	293
7/3/24	76.50	86.90	66.00	0.00	2.25	26	319
7/4/24	78.90	87.10	70.70	0.00	2.25	29	348
7/5/24	78.70	87.10	70.30	0.01	2.26	29	377
7/6/24	76.90	86.00	67.80	0.11	2.37	27	404
7/7/24	73.80	84.00	63.70	0.00	2.37	24	428
7/8/24	75.80	88.30	63.30	0.00	2.37	26	454
7/9/24	76.70	88.20	65.10	0.00	2.37	27	480
7/10/24	80.50	91.60	69.40	1.35	3.72	31	511
7/11/24	70.30	75.00	65.70	0.05	3.77	20	531
7/12/24	73.70	84.40	63.00	0.00	3.77	24	555
7/13/24	75.20	84.60	65.70	0.00	3.77	24	579
7/14/24	76.70	91.00	62.40	0.00	3.77	27	606
7/15/24	77.80	87.40	68.20	1.85	5.62	28	633
7/16/24	76.40	87.60	65.30	0.20	5.82	26	660
7/17/24	72.00	79.50	64.40	0.00	5.82	22	681
7/18/24	68.00	74.80	61.20	0.00	5.82	18	699
7/19/24	68.20	77.70	58.60	0.00	5.82	18	718
7/20/24	68.90	81.10	56.70	0.00	5.82	19	736
7/21/24	71.30	81.70	60.80	0.00	5.82	22	758
7/22/24	72.80	83.50	62.10	0.02	5.84	23	781
7/23/24	72.80	81.10	64.40	0.03	5.87	23	804
7/24/24	76.50	86.50	66.40	0.00	5.87	26	830
7/25/24	69.50	76.60	62.40	0.06	5.93	20	850
7/26/24	68.70	78.60	58.80	0.00	5.93	18	868
7/27/24	67.90	82.40	53.40	0.00	5.93	18	886
7/28/24	71.20	84.70	57.70	0.00	5.93	21	907
7/29/24	72.80	85.60	60.10	0.00	5.93	23	930
7/30/24	77.30	87.30	67.30	0.07	6.00	27	957
7/31/24	77.00	83.70	70.20	0.11	6.11	27	984

Table 9: SH2 Weather Data (Continued)

Date	Average Temp. (°F)	Max Temp. (°F)	Min Temp. (°F)	Total Precip. (inches)	Accum. Precip. (inches)	GDD (Base °F)	Accum. GDD (Base °F)
8/1/24	78.50	89.40	67.50	0.00	6.11	28	1013
8/2/24	74.80	80.20	69.30	0.35	6.46	25	1037
8/3/24	74.20	80.10	68.20	0.06	6.52	24	1061
8/4/24	76.90	86.00	67.80	0.00	6.52	27	1088
8/5/24	73.80	83.70	64.00	0.40	6.92	24	1112
8/6/24	66.80	69.80	63.90	0.43	7.35	17	1129
8/7/24	67.20	76.50	57.90	0.00	7.35	17	1146
8/8/24	69.80	76.10	63.50	0.01	7.36	20	1166
8/9/24	73.50	78.60	68.40	4.16	11.52	24	1189
8/10/24	67.70	75.40	59.90	0.00	11.52	18	1207
8/11/24	65.80	73.00	58.60	0.63	12.15	16	1223
8/12/24	65.10	71.60	58.60	0.00	12.15	15	1238
8/13/24	69.00	76.60	61.50	0.00	12.15	19	1257
8/14/24	71.30	80.40	62.10	0.00	12.15	21	1278
8/15/24	73.20	83.30	63.10	0.00	12.15	23	1301
8/16/24	70.90	83.30	58.50	0.00	12.15	21	1322
8/17/24	72.10	77.50	66.70	0.01	12.16	22	1344
8/18/24	74.70	81.90	67.50	0.65	12.81	24	1368
8/19/24	61.10	67.30	55.00	0.57	13.38	11	1380
8/20/24	59.00	64.60	53.40	0.00	13.38	9	1389
8/21/24	59.60	67.50	51.80	0.22	13.60	10	1398
8/22/24	65.00	73.40	56.50	0.00	13.60	15	1413
8/23/24	67.60	77.50	57.70	0.00	13.60	17	1431
8/24/24	67.70	81.90	53.40	0.00	13.60	18	1448
8/25/24	68.60	80.20	57.00	0.00	13.60	19	1467
8/26/24	70.50	83.50	57.60	0.00	13.60	21	1487
8/27/24	73.30	86.20	60.40	0.00	13.60	23	1511
8/28/24	71.30	78.30	64.20	0.00	13.60	21	1532
8/29/24	66.50	72.30	60.60	0.04	13.64	16	1548
8/30/24	68.70	75.90	61.50	0.00	13.64	19	1567
8/31/24	73.80	81.50	66.20	0.56	14.20	24	1591

Table 9: SH2 Weather Data (Continued)

Date	Average Temp. (°F)	Max Temp. (°F)	Min Temp. (°F)	Total Precip. (inches)	Accum. Precip. (inches)	GDD (Base °F)	Accum. GDD (Base °F)
9/1/24	70.70	81.00	60.40	0.24	14.44	20	1611
9/2/24	59.70	64.40	54.90	0.00	14.44	9	1620
9/3/24	61.40	72.10	50.70	0.00	14.44	11	1631
9/4/24	61.50	74.70	48.40	0.00	14.44	12	1643
9/5/24	63.90	76.50	51.30	0.00	14.44	14	1656
9/6/24	68.00	80.80	55.20	0.34	14.78	18	1674
9/7/24	58.50	66.60	50.50	1.11	15.89	8	1683
9/8/24	56.40	65.10	47.70	0.00	15.89	6	1689
9/9/24	63.10	73.60	52.70	0.08	15.97	13	1702
9/10/24	62.40	72.30	52.50	0.01	15.98	12	1714
9/11/24	62.70	77.40	48.00	0.00	15.98	13	1727
9/12/24	67.80	80.40	55.20	0.00	15.98	18	1745
9/13/24	68.80	80.40	57.20	0.00	15.98	19	1763
9/14/24	69.70	83.70	55.60	0.00	15.98	20	1783
9/15/24	70.50	82.90	58.10	0.00	15.98	21	1804
9/16/24	69.60	81.30	57.90	0.00	15.98	20	1823
9/17/24	67.00	77.70	56.30	0.00	15.98	17	1840
9/18/24	64.20	72.00	56.30	0.00	15.98	14	1854
9/19/24	69.30	80.10	58.60	0.00	15.98	19	1874
9/20/24	67.90	79.90	55.90	0.00	15.98	18	1892
9/21/24	70.30	80.20	60.30	0.00	15.98	20	1912
9/22/24	68.50	76.60	60.40	0.00	15.98	19	1930
9/23/24	60.60	63.50	57.70	0.05	16.03	11	1941