

**Imperial Valley Early Harvest Official Variety Trials
3 Year Data (2019-2021)**

Variety	Approval Status for 2021-22 crop	Extractable Sugar/ Acre	Extractable Sugar/ Ton	Gross Sugar/ Acre	Tons/ Acre	% Sugar	Purity	Final Stand**	% Bolt	Percent Emergence*	Curly Top --- M = 150 ---	% of Mkt. Mildew*** -- M = 100	% of Mkt. Avg.	Rhizomania Root Rating
SV 983	Full Approval													
2021 Trial		12,329	286.6	14,676	42.9	17.1	89.8	223	0.0	42.4	5.8	97.4	6.4	94.9
2020 Trial		10,786	299.9	12,785	36.0	17.8	90.4	207	0.0	53.1	5.3	94.9	--	2.3
2019 Trial		11,241	327.2	13,126	34.2	19.1	91.1	211	0.0	64.5	5.5	94.1	7.0	126.0
Average		11,452	304.6	13,529	37.7	18.0	90.4	214	0.0	53.3				
BTS 582N														
2021 Trial		10,866	288.5	13,106	37.9	17.4	89.4	226	0.0	52.9	5.9	99.0	7.1	105.3
2020 Trial		9,718	290.0	11,768	33.5	17.6	89.0	234	0.0	76.0	5.4	96.7	--	2.1
2019 Trial		10,097	323.0	11,838	31.1	18.9	91.0	213	0.0	68.7	5.9	101.0	4.2	75.6
Average		10,227	300.5	12,237	34.2	18.0	89.8	224	0.0	65.9				
BTS 5983														
2021 Trial		11,722	283.3	14,065	41.1	16.9	89.7	224	0.0	53.5	5.6	94.0	7.3	108.3
2020 Trial		9,931	285.6	11,915	34.5	17.1	89.7	236	0.0	72.5	5.3	94.9	--	2.1
2019 Trial		11,037	320.3	12,884	34.4	18.7	91.3	215	0.0	47.0				
Average		10,897	296.4	12,955	36.7	17.6	90.2	225	0.0	57.7				
SV501	Full Approval													
2021 Trial		11,901	276.5	14,341	43.1	16.7	89.4	225	0.0	51.2	5.9	99.0	6.1	90.5
2020 Trial		9,900	283.0	11,804	35.0	16.9	90.1	209	0.0	36.8	5.6	100.3	--	2.2
2019 Trial		11,306	326.4	13,240	34.8	19.1	91.0	196	0.0	42.0	5.8	99.3	4.7	84.6
Average		11,036	295.3	13,128	37.6	17.6	90.2	210	0.0	43.3				
BTS 5775	Full Approval													
2021 Trial		11,476	273.4	13,838	42.5	16.5	89.5	210	0.0	29.0	6.3	105.8	6.2	91.9
2020 Trial		9,158	279.7	11,050	32.8	16.9	89.4	214	0.0	44.3	5.8	103.8	--	2.1
2019 Trial		11,514	328.2	13,478	35.1	19.2	91.0	214	0.0	61.8	6.0	102.7	3.8	68.4
Average		10,716	293.8	12,789	36.8	17.5	90.0	213	0.0	45.0				
BTS 5678	Full Approval													
2021 Trial		12,097	282.0	14,499	42.7	16.9	89.7	222	0.0	38.4	5.9	99.0	7.4	109.7
2020 Trial		10,111	279.4	12,137	36.2	16.8	89.8	233	0.0	69.9	5.2	93.1	--	1.6
2019 Trial		11,448	316.8	13,453	36.1	18.6	90.8	213	0.0	65.1	5.7	97.6	6.1	109.8
Average		11,219	292.7	13,363	38.3	17.4	90.1	223	0.0	57.8				
BTS 5460	Full Approval													
2021 Trial		11,512	280.4	13,878	40.8	16.9	89.5	223	0.0	48.3	5.6	94.0	7.8	115.7
2020 Trial		9,540	280.2	11,489	34.1	16.9	89.5	228	0.0	57.3	5.2	93.1	--	1.6
2019 Trial		10,945	313.3	12,903	35.1	18.5	90.6	212	0.0	71.0	5.8	99.3	4.3	77.4
Average		10,666	291.3	12,757	36.7	17.4	89.9	221	0.0	58.9				
SV 981	Full Approval													
2021 Trial		12,101	269.4	14,501	45.2	16.2	89.8	225	0.0	43.5	6.2	104.1	6.9	102.3
2020 Trial		11,120	274.8	13,288	40.5	16.4	90.1	222	0.0	54.5	5.9	105.6	--	2.3
2019 Trial		11,841	309.0	13,987	38.5	18.3	90.5	210	0.0	46.9	6.1	104.4	6.3	113.4
Average		11,687	284.4	13,925	41.4	17.0	90.1	219	0.0	48.3				
SV 602	Full Approval													
2021 Trial		12,398	269.8	14,867	45.8	16.2	89.7	221	0.0	43.1	6.0	100.0	6.4	94.9
2020 Trial		10,439	276.1	12,454	37.8	16.5	90.2	184	0.0	22.4	6.1	109.2	--	2.3
2019 Trial		12,058	305.9	14,191	39.1	18.0	90.8	209	0.0	50.1	6.0	102.7	6.7	120.6
Average		11,632	283.9	13,837	40.9	16.9	90.2	205	0.0	38.5				

Mean of Fully Approved (21-22)		11,201	292.3	13,333	38.5	17.4	90.1				2021 Mean	6.0	100	6.7	100	2.3
97% of Fully Approved (21-22)		10,865	283.5	12,933	37.3	16.9	87.4				2020 Mean	5.6	100	--	--	2.1
											2019 Mean	5.8	100	5.6	100	1.8

CV	2021 Trial	2020 Trial	2019 Trial	2021 Trial	2020 Trial	2019 Trial	2021 Trial	2020 Trial	2019 Trial	2021 Trial	2020 Trial	2019 Trial	2021 Trial	2020 Trial	2019 Trial
	5.4	4.9	8.3	2.2	1.7	1.9	5.1	5.0	8.2	4.9	5.3	8.5	1.7	1.2	1.4
	0.8	0.6	0.7	2.3	3.8	3.4	0.8	0.6	0.7	2.3	3.8	3.4	--	8.3	7.8
	8.3	7.8	12.0	8.3	7.8	12.0	8.3	7.8	12.0	8.3	7.8	12.0	7.0	3.6	4.2
	7.7	--	25	7.7	--	25	7.7	--	25	7.7	--	25	n/a	n/a	n/a
LSD (0.05)															
	428.1	482.9	922.3	4.2	4.9	6.0	491.4	586.3	1014.2	1.4	1.9	3.0	0.2	0.6	0.3
	0.5	0.2	0.6	0.5	0.6	0.3	0.5	0.6	0.3	0.5	0.6	0.3	0.5	0.2	0.6
	0.6	0.2	0.6	0.6	0.3	0.6	0.6	0.3	0.6	0.6	0.3	0.6	0.6	0.2	0.6

Cooperator	Planted	Harvested	Plot Size	Notes:
Russell Allen	9/23/20	4/13-14/2021	Plot Size: 2 rows. 30" rows.	Experimental Design: RCBD
Brian Hair	10/28/2020	5/17-18/2021	Plot Size: 2 rows. 30" rows.	Experimental Design: RCBD
Cameron Ranches	9/14/19	4/6/20	Plot Size: 2 rows. 30" rows.	Experimental Trial Design : 4X4 lattice
Imperial Ag	10/31/18	6/5/19	Plot Size: 2 rows. 30" rows.	Experimental Trial Design : 4X5 lattice

Varieties ranked by Extractable Sugar per Ton.
 * Emergence counts taken prior to thinning and converted to a percent.
 ** Final Stand counts converted to beets per 100 foot of row. Final stand counts taken after thinning.
 *** 2021 Powdery mildew ratings are average of two raters at 2021 EH Location 2 yield trial. Ratings on 1-9 scale. 1 low disease, 9 = high disease