

**Imperial Valley Early Harvest Official Variety Trials
3 Year Data (2021-2023)**

Variety	Approval Status for 2023-24 crop	Extractable Sugar/Acre	Extractable Sugar/Ton	Gross Sugar/Acre	Tons/Acre	% Sugar	Purity	Final Stand**	% Bolt	Percent Emergence*	Curly Top	% of Mkt. Midew***#	% of Mkt. Avg.	Rhizomania Root Rating##
BTS 511N	Full Approval													
2023 Trial		14,639	301.8	17,423	48.4	18.0	90.0	160	0.0	35.7	--	--	2.6	76.5
2022 Trial		9,945	264.0	12,562	37.8	16.7	86.5	212	0.0	53.0	5.2	98.1	--	1.8
2021 Trial		12,020	292.0	14,391	40.8	17.5	89.7	224	0.0	57.2	--	--	7.5	105.6
Average		12,201	285.9	14,792	42.3	17.4	88.7	199	0.0	48.6				
SV 983	Full Approval													
2023 Trial		13,257	284.4	15,900	46.6	17.1	89.7	100	0.0	15.5	--	--	2.8	82.4
2022 Trial		9,940	266.4	12,454	37.3	16.7	87.0	202	0.0	38.1	5.5	103.8	--	2.7
2021 Trial		12,329	286.6	14,676	42.9	17.1	89.8	223	0.0	42.4	5.8	--	6.4	90.1
Average		11,842	279.1	14,343	42.3	17.0	88.8	175	0.0	32.0				
SV 1915														
2023 Trial		15,313	285.2	18,495	54.1	17.1	89.5	172	0.0	51.1	--	--	3.7	108.8
2022 Trial		9,846	261.7	12,443	37.9	16.5	86.8	211	0.0	49.6	5.3	100.0	--	2.7
2021 Trial		12,326	287.9	14,697	43.0	17.2	89.8	224	0.0	50.2	--	--	6.1	85.9
Average		12,495	278.3	15,212	45.0	16.9	88.7	202	0.0	50.3				
BTS 5678	Full Approval													
2023 Trial		15,769	278.7	18,888	57.1	16.7	90.1	173	0.0	47.6	--	--	3.6	105.9
2022 Trial		10,573	267.1	13,245	39.4	16.8	87.0	213	0.0	54.5	5.1	96.2	--	2.0
2021 Trial		12,097	282.0	14,499	42.7	16.9	89.7	222	0.0	38.4	5.9	--	7.4	104.2
Average		12,813	275.9	15,544	46.4	16.8	88.9	203	0.0	46.8				
BTS 5460	Full Approval													
2023 Trial		15,548	277.7	18,520	56.1	16.6	90.1	171	0.0	53.5	--	--	4.1	120.6
2022 Trial		9,910	261.2	12,490	38.0	16.5	86.7	213	0.0	52.0	5.3	100.0	--	1.9
2021 Trial		11,512	280.4	13,878	40.8	16.9	89.5	223	0.0	48.3	5.6	--	7.8	109.9
Average		12,323	273.1	14,963	45.0	16.7	88.8	202	0.0	51.3				
SV 602	Full Approval													
2023 Trial		16,142	267.1	19,519	61.2	16.2	89.3	154	0.0	31.0	--	--	3.9	114.7
2022 Trial		10,602	255.8	13,293	41.4	16.1	87.1	211	0.0	49.4	5.4	101.9	--	2.8
2021 Trial		12,398	269.8	14,867	45.8	16.2	89.7	221	0.0	43.1	6.0	103.0	6.4	90.1
Average		13,047	264.2	15,893	49.5	16.2	88.7	195	0.0	41.2				
SV 911	Limited Approval													
2023 Trial		15,259	266.3	18,376	57.7	16.1	89.7	160	0.0	33.2	--	--	4.2	123.5
2022 Trial		10,361	252.9	13,073	41.0	16.0	86.8	212	0.0	50.2	5.3	100.0	--	2.7
2021 Trial		12,770	267.2	15,387	47.7	16.2	89.4	222	0.0	44.1	--	--	7.2	101.4
Average		12,797	262.1	15,612	48.8	16.1	88.6	198	0.0	42.5				

Mean of Fully Approved (23-24)	12,445	275.7	15,107	45.1	16.8	88.8
97% of Fully Approved (23-24)	12,072	267.4	14,654	43.7	16.3	86.1

Mean of Fully Approved Varieties				
2023 Mean	--	--	3.4	100.0
2022 Mean	5.3	100.0	--	2.2
2021 Mean	5.8	100.0	7.1	2.3

CV%														
2023 Trial	2.4	1.6	2.6	3.6	1.3	0.5	3.1	--	12.7	--	15.7	--		
2022 Trial	2.9	2.3	2.5	2.5	1.9	0.6	7.6	--	2.3	5.1	--	--		
2021 Trial	5.4	2.2	5.1	4.9	1.7	0.8	2.3	--	8.3	7.0	7.7		n/a	

LSD (0.05)														
2023 Trial	752.2	9.7	990.4	4.1	0.5	0.9	10.8	--	11.6	--	0.7		0.2	
2022 Trial	587.0	NS	640.8	2.0	NS	NS	8.1	--	NS	0.4	--	--	0.3	
2021 Trial	428.1	4.2	491.4	1.4	0.2	0.5	3.6	--	2.8	0.5	0.6		0.5	

Cooperator	Planted	Harvested	Plot Size	Notes:
Ruegger Farms	9/20/22	4/17/23	2 rows, 30" rows.	Experimental Design: RCBD
Jason Taylor	9/29/22	5/15/23	2 rows, 30" rows.	Experimental Design: RCBD
Horizon Farms	9/15/21	3/30/22	2 rows, 30" rows.	Experimental Design: RCBD
Lance Reeves	9/25/21	4/6/22	2 rows, 30" rows.	Experimental Design: RCBD
Russell Allen	9/23/20	4/13-14/21	2 rows, 30" rows.	Experimental Design: RCBD
Brian Hair	10/28/20	5/17-18/21	2 rows, 30" rows.	Experimental Design: RCBD

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
 # 2023 Powdery mildew ratings were taken from EH Location 2 on 5/9/23 on a 1-9 rating scale.
 ## Root rating using 0-9 scale (0=healthy and 9=dead; ≥ 3 would be considered susceptible).