

**Imperial Valley Early Harvest Official Variety Trials  
1 Year Data (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*	Powdery Mildew <sup>#</sup>	% of Mkt. Avg.	Rhizomania Root Rating <sup>##</sup>
SV 1934N		12,273	303.6	14,593	40.0	18.1	89.7	174	0.0	59.4	2.7	79.4	--
BTS 511N	Full Approval	14,639	301.8	17,423	48.4	18.0	90.0	160	0.0	35.7	2.6	76.5	2.0
BTS 5309		13,933	290.9	16,696	48.1	17.4	89.8	164	0.0	40.8	3.5	102.9	--
BTS 539N		14,113	289.2	16,923	49.0	17.4	89.5	162	0.0	37.0	3.5	102.9	--
SV 1927		15,551	287.3	18,568	55.1	17.1	90.0	172	0.0	51.3	4.3	126.5	2.3
SV 1915		15,313	285.2	18,495	54.1	17.1	89.5	172	0.0	51.1	3.7	108.8	2.5
BTS 5386		14,747	285.0	17,681	52.1	17.1	89.6	168	0.0	44.3	5.2	152.9	--
SV 983	Full Approval	13,257	284.4	15,900	46.6	17.1	89.7	100	0.0	15.5	2.8	82.4	3.2
BTS 5255		15,813	282.8	18,796	56.2	16.8	90.5	175	0.0	44.7	3.1	91.2	2.2
BTS 5350		14,923	280.8	17,969	54.1	16.9	89.7	173	0.0	45.1	2.9	85.3	--
BTS 5317		15,185	280.6	18,239	54.9	16.8	89.9	170	0.0	48.2	4.0	117.6	--
BTS 5678	Full Approval	15,769	278.7	18,888	57.1	16.7	90.1	173	0.0	47.6	3.6	105.9	1.8
BTS 5460	Full Approval	15,548	277.7	18,520	56.1	16.6	90.1	171	0.0	53.5	4.1	120.6	2.2
SV 602	Full Approval	16,142	267.1	19,519	61.2	16.2	89.3	154	0.0	31.0	3.9	114.7	2.4
SV 911	Limited Approval	15,259	266.3	18,376	57.7	16.1	89.7	160	0.0	33.2	4.2	123.5	2.3

Mean of Fully Approved (23-24)	15,071	281.9	18,050	53.9	16.9	89.8
97% of Fully Approved (23-24)	14,619	273.5	17,508	52.3	16.4	87.1

Mean of Fully Approved Varieties			
2023 Mean	3.4	100.0	2.3

CV%	2.4	1.6	2.6	3.6	1.3	0.5	3.1	--	12.7	15.7	--
LSD (0.05)	752.2	9.7	990.4	4.1	0.5	0.9	10.8	--	11.6	0.7	0.2

<u>Cooperator</u>	<u>Planted</u>	<u>Harvested</u>	<u>Plot Size</u>	<u>Notes:</u>
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

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.

<sup>#</sup> 2023 Powdery mildew ratings were taken from 2023 EH Location 2 on 5/9/23 on a 1-9 rating scale.

<sup>##</sup> Root rating using 0-9 scale (0=healthy and 9=dead; ≥ 3 would be considered susceptible).