

Imperial Valley Late Harvest Official Variety Trials 1 Year Data Summary (2023)

Variety	2023-2024 Marketing Approval	Extractable Sugar/ Acre	Extractable Sugar/Ton	Gross Sugar/ Acre	Tons / Acre	% Sugar	Purity	Final Stand**	% Bolt	% Rot***	Percent Emergence*	Powdery Mildew [#]	% of Mkt. Avg.	Rhizomania Root Rating ^{##}
BTS 5386		20,794	307.7	24,361	68.0	18.1	91.0	237	0.3	0.1	53.3	7.7	98.1	--
SV 1934N		17,908	307.3	21,264	57.6	18.3	90.1	239	0.5	0.5	57.6	4.5	57.3	--
BTS 5309		19,249	307.0	22,599	62.4	18.0	91.0	234	0.1	0.2	50.4	7.7	98.1	--
BTS 539N		19,222	305.9	22,701	62.4	18.0	90.6	234	0.0	0.4	45.6	5.9	75.2	--
SV 1915	Limited Approval	20,478	302.8	24,060	67.5	17.8	90.9	238	0.4	0.0	48.8	5.1	65.0	2.5
SV1927		19,760	296.0	23,432	66.3	17.6	90.2	233	1.6	0.1	45.8	5.9	75.2	2.3
BTS 5678	Full Approval	20,981	294.3	24,688	71.6	17.3	91.0	239	0.0	0.1	55.7	7.9	100.6	1.8
BTS 5460	Full Approval	20,678	292.3	24,463	70.4	17.3	90.5	238	0.1	0.2	60.0	7.8	99.4	2.2
BTS 511N	Limited Approval	20,193	291.5	24,279	67.2	17.6	89.4	239	0.0	0.6	47.6	5.2	66.2	2.0
BTS 5350		19,464	288.4	23,201	66.9	17.2	90.1	235	0.0	0.3	50.0	6.4	81.5	--
BTS 5255		20,240	288.3	24,117	69.9	17.2	90.0	239	0.0	0.2	48.2	7.0	89.2	2.2
BTS 5317		18,938	284.0	22,558	67.0	16.9	90.2	238	0.0	0.2	56.1	7.7	98.1	--

Mean of Fully Approved (23-24)	20,830	293.3	24,575	71.0	17.3	90.8
97% of Fully Approved (23-24)	20,205	284.5	23,838	68.9	16.8	88.0
LSD (0.05)	1,176.1	7.7	1,354.7	3.7	0.4	0.7
C.V.	5.1	2.4	5.0	4.7	1.8	0.7

Mean of Fully Approved Varieties			
2023 Mean	7.9	100.0	2.0
LSD (0.05)	0.4		
C.V.	5.6		

Varieties ranked by Extractable Sugar per Ton.

Disease nursery ratings: Lower numbers are more resistant, higher numbers are more susceptible.

*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.

*** Percent rot is calculated by counting rot beets per plot and converting to a percent based on the final stand count.

[#]2023 mildew data is from 2022-23 LH Loc. 1. Rating scale 1-9 with lower ratings meaning less disease and higher ratings meaning more disease.

^{##} Root rating using a scale of 0-9 (0=healthy and 9=dead; ≥3 would be considered susceptible).

<u>Cooperator</u>	<u>Planted</u>	<u>Harvested</u>	<u>Plot Size</u>
Dan Walker	10/13/2022	7/18/2023	2 rows -- 30 inch rows