

Imperial Valley Late Harvest Official Variety Trials
2 Year Data (2022-2023)

Variety	2023-2024 Marketing Approval	Year	Extractable Sugar/ Acre	Extractable Sugar/ Ton*	Gross Sugar/ Acre	Tons/ Acre	% Sugar	Purity	Final Stand**	% Bolt	% Rot***	Percent Emergence*	Curly Top Rating	% of Mkt. Avg.	Powdery Mildew Rating#	% of Mkt. Avg.	Rhizomania Root Rating##
SV 1915	Limited Approval	2023	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
		2022	18,954	282.9	23,014	69.1	17.0	89.3	231	0.0	12.4	42.4	5.3	101.9	--	--	2.7
		Average	19,716	292.9	23,537	68.3	17.4	90.1	235	0.2	6.2	45.6					
BTS 511N	Limited Approval	2023	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
		2022	20,623	294.1	24,614	71.6	17.5	90.4	232	0.0	1.5	43.1	5.2	100.0	--	--	1.8
		Average	20,408	292.8	24,446	69.4	17.6	89.9	236	0.0	1.1	45.4					
BTS 5678	Full Approval	2023	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
		2022	18,995	288.0	22,703	66.6	17.1	90.0	232	0.0	9.0	45.1	5.1	98.1	--	--	2.0
		Average	19,988	291.2	23,695	69.1	17.2	90.5	236	0.0	4.6	50.4					
SV 1927		2023	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
		2022	18,971	282.7	22,934	67.8	17.0	89.6	233	0.3	17.4	43.5	--	--	--	--	--
		Average	19,365	289.4	23,183	67.1	17.3	89.9	233	1.0	8.8	44.7					
BTS 5460	Full Approval	2023	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
		2022	20,059	283.4	24,299	71.9	17.0	89.5	231	0.2	2.7	47.5	5.3	101.9	--	--	1.9
		Average	20,369	287.9	24,381	71.2	17.2	90.0	235	0.2	1.5	53.8					
BTS 5255		2023	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
		2022	20,856	286.4	24,944	73.8	17.0	90.2	233	0.0	0.4	44.4	--	--	--	--	--
		Average	20,548	287.4	24,530	71.9	17.1	90.1	236	0.0	0.3	46.3					

Mean of Fully Approved (23-24)	20,178	289.5	24,038	70.1	17.2	90.3
97% of Fully Approved (23-24)	19,573	280.8	23,317	68.0	16.7	87.5

Mean of Fully Approved Varieties					
2023 Mean	--	--	7.9	100.0	2.0
2022 Mean	5.2	100.0	--	--	2.0

LSD (0.05)	2023	1,176.1	7.7	1,354.7	3.7	0.4	0.7	7.5	0.3	0.5	5.9	--	0.4	--
	2022	1,081.4	6.6	1,282.9	4.0	0.3	0.7	4.2	0.3	5.1	4.8	0.4	--	0.3
C.V.	2023	5.1	2.4	5.0	4.7	1.8	0.7	3.0	143.0	199.4	10.0	--	5.6	--
	2022	8.6	3.4	8.5	9.0	2.6	1.1	2.6	315.4	30.1	15.9	5.1	--	--

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.

***2022 Percent rot is from LH OVT Location #1 only. No rot present at Location #2.

2023 Powdery mildew data is from ratings taken at 2022-2023 Late Harvest Loc. 1 yield trial. 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).

Cooperator	Planted	Harvested	Plot Size
Dan Walker	10/13/2022	7/18/2023	2 rows -- 30 inch rows
Ruegger Farms	10/6/2021	6/1/2022	2 rows -- 30 inch rows
Gary and Brett Mamer	10/13/2021	7/7/2022	2 rows -- 30 inch rows