

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

Variety	2023-2024 Marketing Approval	Year	Extractable Sugar/ Acre	Extractable Sugar/Ton	Gross Sugar/ Acre	Tons/ Acre	% Sugar	Purity	Final Stand**	% Bolt	% Rot <sup>w</sup>	Percent Emergence*	Curly Top Rating	% of Mkt. Avg.	Powdery Mildew Rating <sup>#</sup>	% of Mkt. Avg.	Rhizomania Root Rating <sup>##</sup>
<b>BTS 511N</b>	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
		2021	18,053	310.4	21,014	58.5	18.0	91.9	233	0.0	0.0	63.4	--	--	6.6	91.0	--
		Average	19,623	298.7	23,302	65.8	17.7	90.6	235	0.0	0.7	51.4					
<b>SV 1915</b>	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
		2021	18,861	303.2	22,096	62.2	17.8	91.2	231	0.0	0.0	61.8	--	--	5.2	71.7	--
		Average	19,431	296.3	23,057	66.3	17.5	90.5	233	0.1	4.1	51.0					
<b>Beta 5678</b>	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
		2021	17,311	302.3	20,147	57.4	17.6	91.7	232	0.0	0.0	49.2	5.9	102.6	7.6	104.8	2.0
		Average	19,096	294.9	22,513	65.2	17.3	90.9	234	0.0	3.0	50.0					
<b>BTS 5460</b>	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
		2021	17,525	299.8	20,409	58.3	17.5	91.6	232	0.0	0.0	59.1	5.6	97.4	6.9	95.2	2.1
		Average	19,421	291.8	23,057	66.9	17.3	90.5	234	0.1	1.0	55.5					

Mean of Fully Approved (23-24)	19,258	293.4	22,785	66.0	17.3	90.7
97% of Fully Approved (23-24)	18,680	284.5	22,101	64.1	16.8	88.0

Mean of Fully Approved Varieties					
2023 Mean	--	--	7.9	100.0	2.0
2022 Mean	5.2	100.0	--	--	2.0
2021 Mean	5.8	100.0	7.3	100.0	2.1

LSD (0.05)	2023	1176.1	7.7	1354.7	3.7	0.4	0.7	7.5	0.3	0.5	5.9	--	0.4	0.2
	2022	1081.4	6.6	1282.9	4.0	0.3	0.7	4.2	0.3	5.1	4.8	0.4	--	0.3
	2021	932.7	5.6	1071.7	3.1	0.2	0.6	5.2	--	--	5.3	0.5	0.5	0.5
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	--	--
	2021	4.7	1.8	4.6	4.5	1.3	0.6	2.1	--	--	8.9	7.0	6.9	--

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.

<sup>#</sup>2021 Powdery mildew data is from 2020-2021 Late Harvest Loc. 2 yield trial. 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.

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

<sup>w</sup> 2022 Rot data is from Location #1 only. 2023 Rot data s from Location #1 only.

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
Jason Taylor	10/12/2020	6/9/2021	2 rows -- 30 in. 4 x 4 lattice