

Imperial Valley Late Harvest Official Variety Trials
3 Year Data (2020-2022)

Variety	2022-2023 Marketing Approval	Year	Extractable Sugar/ Acre	Extractable Sugar/Ton	Gross Sugar/ Acre	Tons/ Acre	% Sugar	Purity	Final Stand**	% Bolt	% Rot ^w	Percent Emergence*	Curly Top Rating	% of Mkt. Avg.	Powdery Mildew Rating [#]	% of Mkt. Avg.	Rhizomania Root Rating
Beta 5678	Full Approval	2022	18,995	288.0	22,703	66.6	17.1	90.0	232	0.0	9.0	45.1	5.1	95.6	--	--	--
		2021	17,311	302.3	20,147	57.4	17.6	91.7	232	0.0	0.0	49.2	5.9	99.4	7.6	109.1	2.0
		2020	21,057	294.2	24,882	72.7	17.4	90.8	231	0.0	1.9	75.9	5.2	96.3	--	--	1.6
		Average	19,121	294.8	22,577	65.6	17.4	90.8	232	0.0	3.6	56.7					
BTS 5460	Full Approval	2022	20,059	283.4	24,299	71.9	17.0	89.5	231	0.2	2.7	47.5	5.3	99.4	--	--	--
		2021	17,525	299.8	20,409	58.3	17.5	91.6	232	0.0	0.0	59.1	5.6	94.4	6.9	99.0	2.1
		2020	20,735	290.0	24,537	73.3	17.1	90.7	234	0.1	0.2	71.1	5.2	96.3	--	--	1.6
		Average	19,440	291.1	23,082	67.8	17.2	90.6	232	0.1	1.0	59.2					
BTS 5775	Full Approval	2022	18,985	279.7	22,931	68.0	16.8	89.5	226	0.1	10.1	43.1	5.6	105.0	--	--	--
		2021	17,815	295.0	20,852	60.5	17.2	91.5	226	0.0	0.0	40.0	6.3	106.2	6.4	91.9	2.6
		2020	21,856	285.0	26,032	78.3	17.0	90.3	230	0.0	0.7	65.8	5.8	107.4	--	--	2.1
		Average	19,552	286.6	23,272	68.9	17.0	90.4	227	0.0	3.6	49.6					
SV 2997	Limited Marketing	2022	18,488	264.6	22,606	71.0	16.1	89.0	232	0.7	10.1	45.1	5.2	97.5	--	--	--
		2021	18,586	278.0	21,948	66.9	16.4	90.9	228	0.0	0.0	46.9	6.1	102.8	6.9	99.0	2.8
		2020	20,745	269.5	24,987	79.1	16.2	89.8	233	0.1	0.2	81.3	5.6	103.7	--	--	2.4
		Average	19,273	270.7	23,180	72.3	16.2	89.9	231	0.3	3.4	57.8					
SV 604N not tested 2022	Nematode Specialty Approval Early-Mid Harvest	2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2021	16,969	280.1	20,217	60.7	16.7	90.4	232	0.0	0.0	58.8	5.7	96.1	4.7	67.5	2.3
		2020	17,348	256.8	21,130	68.5	15.6	89.1	228	0.2	0.1	57.8	5.4	100.0	--	--	2.1
		Average	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Mean of Fully Approved (22-23)	19,371	290.8	22,977	67.4	17.2	90.6
97% of Fully Approved (22-23)	18,790	282.1	22,288	65.4	16.7	87.9

Mean of Fully Approved Varieties					
2022 Mean	5.3	100.0	--	--	--
2021 Mean	5.9	100.0	7.0	100.0	2.2
2020 Mean	5.4	100.0	--	--	1.8

	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
LSD (0.05)	2022	1081.4	6.6	1282.9	4.0	0.3	0.7	4.2	0.3	5.1	4.8	0.4	--	--	--	--
	2021	932.7	5.6	1071.7	3.1	0.2	0.6	5.2	--	--	5.3	0.5	0.5	0.5	--	0.5
	2020	775.8	6.2	859.9	3.1	0.3	0.5	2.8	0.5	--	4.9	--	--	--	--	0.2
C.V.	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	--	--	n/a
	2020	4.3	2.4	4.0	4.7	1.9	0.6	1.3	326.6	--	7.5	--	--	--	--	n/a

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.

#2021 Powdery mildew data is from ratings taken at 2020-2021 Late Harvest Loc. 2 yield trial. Rating scale 1-9 with lower ratings meaning less disease and higher ratings meaning more disease.

^w Percent rot data for 2020 is from Westmoreland site only. No rot present at Ruegger site. 2022 Rot data is from Location #1 only. No rot at Location #2.

Cooperator	Planted	Harvested	Plot Size
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
Fritz Ruegger	10/12/2019	6/17/2020	2 rows -- 30 in. 4 x 4 lattice
Westmoreland Farms	10/10/2019	8/10-11/2020	2 rows -- 30 in. 4 x 4 lattice