

Imperial Valley Late Harvest Official Variety Trials
2 Year Data (2019-2020)

Variety	2020-2021 Marketing Approval	Year	Extractable Sugar/ Acre	Extractable Sugar/ Ton ⁺	Gross Sugar/ Acre	Tons/ Acre	% Sugar	Purity	Final Stand Beets/ 100'	% Bolt	% Rot ^w	Percent Emergence	Curly Top Rating	% of Mkt. Avg.	Erwinia* Rating (DI)	% of Mkt. Avg.	Powdery Mildew Rating*	% of Mkt. Avg.	Rhizomania Root Rating*
													--- M = 150 ---		--M = 300		-- M = 100		
Beta 582N		2020	18,504	290.0	22,040	65.5	17.3	90.2	234	0.0	0.2	78.9	5.4	99.6	n/a		n/a		2.1
		2019	21,166	300.7	24,995	70.8	17.7	90.7	255	0.0	0.4	76.8	5.9	101.9	27.1	130.1	4.2	83.8	1.6
		Average	19,835	295.4	23,518	68.2	17.5	90.5	245	0.0	0.3	77.9							
BTS 5678	Full Approval	2020	21,057	294.2	24,882	72.7	17.4	90.8	231	0.0	1.9	75.9	5.2	95.9	n/a		n/a		1.6
		2019	22,333	288.7	26,465	77.2	17.1	90.5	255	0.1	0.1	67.9	5.7	98.5	31.3	150.7	6.1	121.7	1.5
		Average	21,695	291.5	25,674	75.0	17.3	90.7	243	0.1	1.0	71.9							
BTS 5460	Full Approval	2020	20,735	290.0	24,537	73.3	17.1	90.7	234	0.1	0.2	71.1	5.2	95.9	n/a		n/a		1.6
		2019	21,647	286.0	25,632	75.6	16.9	90.6	257	0.0	0.0	74.5	5.8	100.2	45.3	217.9	4.3	85.8	1.4
		Average	21,191	288.0	25,085	74.5	17.0	90.7	246	0.1	0.1	72.8							
Beta 5983		2020	20,669	285.6	24,575	73.6	16.9	90.4	234	0.0	0.5	77.3	5.3	97.8	n/a		n/a		2.1
		2019	22,609	289.9	26,700	78.1	17.1	90.8	253	0.1	0.5	46.6	--	--	--		--		--
		Average	21,639	287.8	25,638	75.9	17.0	90.6	244	0.1	0.5	62.0							
BTS 5775	Full Approval	2020	21,856	285.0	26,032	78.3	17.0	90.3	230	0.0	0.7	65.8	5.8	107.0	n/a		n/a		2.1
		2019	22,758	277.2	27,389	82.2	16.7	89.6	254	0.0	0.5	58.1	6.0	103.7	36.2	174.3	3.8	75.8	2.1
		Average	22,307	281.1	26,711	80.3	16.9	90.0	242	0.0	0.6	62.0							
SV 2997N		2020	20,745	269.5	24,987	79.1	16.2	89.8	233	0.1	0.2	81.3	5.6	103.3	n/a		n/a		2.4
		2019	22,353	264.5	26,999	84.7	16.0	89.6	256	0.0	0.3	80.7	--	--	--	--	--	--	--
		Average	21,549	267.0	25,993	81.9	16.1	89.7	245	0.1	0.3	81.0							
SV 2982N	Limited Approval	2020	18,452	261.9	22,339	71.8	15.8	89.4	233	0.4	0.0	67.8	5.4	99.6	n/a		n/a		2.2
		2019	22,301	264.3	26,987	84.3	16.0	89.4	254	0.2	0.7	69.6	5.5	95.0	8.9	43	6.80	136	2.0
		Average	20,377	263.1	24,663	78.1	15.9	89.4	244	0.3	0.4	68.7							
SV143N	Full Approval	2020	17,738	264.4	21,550	68.6	16.0	89.2	233	0.2	0.2	68.5	5.5	101.5	n/a		n/a		2.3
		2019	22,000	260.8	26,695	84.2	15.9	89.2	254	0.6	0.5	67.5	5.8	100.2	5.2	24.9	4.40	88	2.2
		Average	19,869	262.6	24,123	76.4	16.0	89.2	244	0.4	0.4	68.0							
SV604N	Full Approval	2020	17,348	256.8	21,130	68.5	15.6	89.1	228	0.2	0.1	57.8	5.4	99.6	n/a		n/a		2.1
		2019	21,425	258.4	26,033	82.4	15.7	89.1	254	0.1	0.7	50.5	5.8	100.2	2.1	10.1	5.8	115.7	1.4
		Average	19,387	257.6	23,582	75.5	15.7	89.1	241	0.2	0.4	54.2							

* varieties ranked by Extractable Sugar per Ton

^w Percent rot data for 2020 is from Westmoreland site only. No rot present at Ruegger site.

Mean of 20-21 Fully Approved	17,408	230.1	20,862	63.6	13.8	74.9
97% of 20-21 Fully Approved	16,886	223.2	20,236	61.7	13.4	72.7

Mean of Approved Varieties							
2020 Mean	5.4	100.0					1.9
2019 Mean	5.8	100.0	20.8	100.0	5.0	100.0	1.7

Imperial Valley Late Harvest Official Variety Trials

2 Year Data (2019-2020)

Variety	2020-2021 Marketing Approval	Year	Extractable Sugar/ Acre	Extractable Sugar/ Ton [†]	Gross Sugar/ Acre	Tons/ Acre	% Sugar	Purity	Final Stand Beets/ 100'	% Bolt	% Rot ^w	Percent Emergence	Curly Top Rating	% of Mkt. Avg.	Erwinia* Rating (DI)	% of Mkt. Avg.	Powdery Mildew Rating*	% of Mkt. Avg.	Rhizomania Root Rating*
													--- M = 150 ---		--M = 300		-- M = 100		

Pr>F	2020	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001					<0.0001
	2019	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001		<0.0001	<0.0001
LSD	2020	775.8	6.2	859.9	3.1	0.3	0.5	2.8	0.5			4.9	0.2					0.2
	2019	1084.0	7.8	1234.0	3.8	0.4	0.7	5.1	0.5	0.8		5.0	0.3		7.8		n/a	0.6
C.V.	2020	4.3	2.4	4.0	4.7	1.9	0.6	1.3	326.6			7.5	3.6					n/a
	2019	5.2	2.9	4.9	5.0	2.2	0.8	2.1	254.9	211.0		8.1	4.2		44.2		25.0	n/a

Cooperator	Planted	Harvested	Plot Size
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
Paul Cameron	10/18/2018	7/15-16/2019	2 rows -- 30 in. 4 x 5 lattice

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

[†]Data not yet available.