

Imperial Valley Late Harvest Official Variety Trials

3 Year Data (2019-2021)

Variety	2021-2022 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 (DJ)*	% of Mkt. Avg.	Powdery Mildew Rating*	% of Mkt. Avg.	Rhizomania Root Rating*
													--- M = 150 ---		--M = 300		-- M = 100		
Beta 582N		2021	16,959	305.0	19,763	55.0	17.8	91.3	229	0.0	0.0	58.3	5.9	100.4	n/a		--		--
		2020	18,504	290.0	22,040	65.5	17.3	90.2	234	0.0	0.2	78.9	5.4	100.0	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	101.3	27.1	94.3	4.2	84.0	1.6
		Average	18,876	298.6	22,266	63.8	17.6	90.7	239	0.0	0.2	71.3	5.7						
Beta 5678	Full Approval	2021	17,311	302.3	20,147	57.4	17.6	91.7	232	0.0	0.0	49.2	5.9	100.4	n/a		--		--
		2020	21,057	294.2	24,882	72.7	17.4	90.8	231	0.0	1.9	75.9	5.2	96.3	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	97.9	31.3	109.0	6.1	122.0	1.5
		Average	20,234	295.1	23,831	69.1	17.4	91.0	239	0.0	0.7	64.3	5.6						
BTS 5460	Full Approval	2021	17,525	299.8	20,409	58.3	17.5	91.6	232	0.0	0.0	59.1	5.6	95.3	n/a		--		--
		2020	20,735	290.0	24,537	73.3	17.1	90.7	234	0.1	0.2	71.1	5.2	96.3	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	99.6	45.3	157.6	4.3	86.0	1.4
		Average	19,969	291.9	23,526	69.1	17.2	91.0	241	0.0	0.1	68.2	5.5						
BTS 5983		2021	17,587	299.4	20,500	58.9	17.4	91.7	232	0.0	0.0	57.7	5.6	95.3	n/a		--		--
		2020	20,669	285.6	24,575	73.6	16.9	90.4	234	0.0	0.5	77.3	5.3	98.1	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	20,288	291.6	23,925	70.2	17.1	91.0	240	0.0	0.3	60.5	5.5						
BTS 5775	Full Approval	2021	17,815	295.0	20,852	60.5	17.2	91.5	226	0.0	0.0	40.0	6.3	107.2	n/a		--		--
		2020	21,856	285.0	26,032	78.3	17.0	90.3	230	0.0	0.7	65.8	5.8	107.4	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	103.0	36.2	126.1	3.8	76.0	2.1
		Average	20,810	285.7	24,758	73.7	17.0	90.5	237	0.0	0.4	54.6	6.0						
SV 2997	Limited Marketing	2021	18,586	278.0	21,948	66.9	16.4	90.9	228	0.0	0.0	46.9	6.1	103.8	n/a		--		--
		2020	20,745	269.5	24,987	79.1	16.2	89.8	233	0.1	0.2	81.3	5.6	103.7	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	20,561	270.7	24,645	76.9	16.2	90.1	239	0.0	0.2	69.6	5.9						
SV 604N	Full Approval	2021	16,969	280.1	20,217	60.7	16.7	90.4	232	0.0	0.0	58.8	5.7	97.0	n/a		--		--
		2020	17,348	256.8	21,130	68.5	15.6	89.1	228	0.2	0.1	57.8	5.4	100.0	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	99.6	2.1	7.3	5.8	116.0	1.4
		Average	18,581	265.1	22,460	70.5	16.0	89.5	238	0.1	0.3	55.7	5.6						

* varieties ranked by Extractable Sugar per Ton

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

^w Percent rot data for 2020 is from Westmoreland site only. No rot present at Ruegger site. For rot information from 2021, refer to 20-21 Loc. 2 tab

Mean of 21-22 Fully Approved	19,898	284.5	23,644	70.6	16.9	90.5
97% of 21-22 Fully Approved	19,301	275.9	22,934	68.5	16.4	87.8

Mean of Approved Varieties							
2021 Mean	5.9	100.0					
2020 Mean	5.4	100.0					1.9
2019 Mean	5.8	100.0	28.8	100.0	5.0	100.0	1.6

Variety			Extractable Sugar/ Acre	Extractable Sugar/ Ton	Gross Sugar/ Acre	Tons/ Acre	% Sugar	Purity	Stand	% Bolt*	% Rot	Percent Emergence	Curly Top* % of Mkt.	Erwinia* % of Mkt.	Powdery Mildew % of Mkt. Avg.	Rhizomania Root Rating*
													--- M = 150 ---	--M = 300	-- M = 100	

LSD (0.05)	2021	932.7	5.6	1071.7	3.1	0.2	0.6	5.2	--	--	5.3	0.5				0.2
	2020	775.8	6.2	859.9	3.1	0.3	0.5	2.8	0.5		4.9					
	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	--		0.6
C.V.	2021	4.7	1.8	4.6	4.5	1.3	0.6	2.1	--	--	8.9	7.0				
	2020	4.3	2.4	4.0	4.7	1.9	0.6	1.3	326.6		7.5					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
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
Paul Cameron	10/18/2018	7/15-16/2019	2 rows -- 30 in. 4 x 5 lattice