

Imperial Valley Late Harvest Official Variety Trials

3 Year Data (2017-2019)

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Variety	Marketing Approval	Year	Extractable Sugar/ Acre	Extractable Sugar/ Ton ⁺	Gross Sugar/ Acre	Tons/ Acre	% Sugar	Purity	Final Stand Beets/100'	% Bolt	% Rot	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 5678	Full Approval	2019	22,333	288.7	26,465	77.2	17.1	90.5	255	0.1	0.1	67.9	5.7	98.5	--		6.1	121.7	--
		2018	21,807	256.4	27,396	85.0	16.1	86.9	237	0.0	5.6	65.0	6.6	101.7	51.4	159.3	n/a		1.6
		2017	18,626	261.3	23,054	71.1	16.2	87.9	240	0.0	0.1	79.5	6.6	101.5	n/a		n/a		2.1
		Average	20,922	268.8	25,639	77.8	16.5	88.4	244.1	0.0	1.9	70.8							
BTS 5460	Full Approval	2019	21,647	286.0	25,632	75.6	16.9	90.6	257	0.0	0.0	74.5	5.8	100.2	--		4.3	85.8	--
		2018	23,310	261.8	28,995	88.3	16.3	87.5	231	1.2	1.2	63.6	6.2	95.6	52.4	162.4	n/a		1.0
		2017	18,739	256.6	23,375	72.9	16.0	87.4	241	0.1	0.3	70.5	6.4	98.5	n/a		n/a		1.8
		Average	21,232	268.1	26,001	79.0	16.4	88.5	242.9	0.4	0.5	69.5							
BTS 5775	Limited Approval	2019	22,758	277.2	27,389	82.2	16.7	89.6	254	0.0	0.5	58.1	6.0	103.7	--		3.8	75.8	--
		2018	20,793	252.3	26,362	82.9	16.0	86.5	231	0.4	6.2	70.1	6.8	104.8	57.0	176.7	n/a		1.5
		2017	18,729	254.4	23,550	73.8	16.0	87.0	242	0.2	0.2	85.2	n/a		n/a		n/a		n/a
		Average	20,760	261.3	25,767	79.6	16.2	87.7	242.3	0.2	2.3	71.1							
Beta 566N	Full Approval	2019	20,845	282.2	24,937	73.4	17.0	89.7	255	0.0	0.1	75.0	5.4	93.3	--		4.4	87.8	--
		2018	19,013	244.0	24,297	77.8	15.6	86.0	229	0.3	3.3	65.9	6.3	97.1	36.0	111.6	n/a		1.8
		2017	16,826	245.2	21,089	69.2	15.4	87.3	241	0.0	0.0	80.4	6.2	95.4	n/a		n/a		2.1
		Average	18,895	257.1	23,441	73.5	16.0	87.7	241.7	0.1	1.1	73.8							
SV 971	Full Approval	2019	18,553	274.3	22,386	67.4	16.6	89.2	167	0.4	0.7	22.0	5.7	98.5	--		6.7	133.7	--
		2018	21,274	242.8	27,156	87.7	15.5	86.2	218	3.5	13.3	51.9	6.6	101.7	8.1	25.1	n/a		1.1
		2017	23,438	242.8	23,438	76.5	15.3	86.9	243	1.6	0.5	91.5	n/a		n/a		n/a		n/a
		Average	21,088	253.3	24,327	77.2	15.8	87.4	209.2	1.8	4.8	55.1							
Beta 5600	Full Approval	2019	22,854	274.7	27,322	83.3	16.4	90.1	252	0.0	0.2	65.4	6.1	105.4	--		4.6	91.8	--
		2018	21,571	248.9	27,332	87.7	15.7	86.6	232	0.0	15.0	69.4	6.4	98.7	37.9	117.5	n/a		0.6
		2017	18,707	230.1	23,676	81.1	14.6	86.9	240	0.3	0.5	83.6	6.8	104.6	n/a		n/a		1.4
		Average	21,044	251.2	26,110	84.0	15.6	87.9	241.4	0.1	5.2	72.8							
SV143NTT	Full Approval	2019	22,000	260.8	26,695	84.2	15.9	89.2	254	0.6	0.5	67.5	5.8	100.2	--		4.4	87.8	--
		2018	21,517	237.8	27,711	90.9	15.3	85.7	239	4.0	12.0	83.2	6.4	98.7	6.6	20.5	n/a		0.8
		2017	18,059	240.0	22,751	75.5	15.1	87.1	242	1.1	0.3	84.5	6.5	100.0	n/a		n/a		1.8
		Average	20,525	246.2	25,719	83.5	15.4	87.3	244.9	1.9	4.3	78.4							
SV 604TT	Full Approval	2019	21,425	258.4	26,033	82.4	15.7	89.1	254	0.1	0.7	50.5	5.8	100.2	--		5.8	115.7	--
		2018	19,614	235.9	25,235	83.1	15.2	85.8	228	1.5	7.9	60.1	6.6	101.7	8.7	27.0	n/a		2.6
		2017	18,129	234.5	23,062	77.5	14.9	86.4	239	0.3	0.1	71.7	6.5	100.0	n/a		n/a		2.0
		Average	19,723	242.9	24,777	81.0	15.3	87.1	240.4	0.6	2.9	60.8							

* varieties ranked by Extractable Sugar per Ton

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

Mean of Full Approved	20,490	255.4	25,145	79.4	15.8	87.8
97% of Full Approved	19,875	247.7	24,390	77.0	15.4	85.1

Mean of Approved Varieties						
2019 Mean	5.8	100	--	5.0	100.0	--
2018 Mean	6.5	100.0	32.3	100.0	n/a	1.4
2017 Mean	6.5	100.0	n/a		n/a	1.9

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.	% Rhiz. Resist.
													--- M = 150 ---	--M = 300	-- M = 100	

Pr>F	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	--
	2018	<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
	2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.4	0.02	<0.0001	0.4	<0.0001	<0.0001	--	--	--	<0.0001
LSD (0.05)	2019	1084.0	7.8	1234.0	3.8	0.4	0.7	5.1	0.5	0.8	5.0	0.3	--	--	--	--
	2018	1439.5	9.9	1702.8	4.9	0.4	1.0	7.4	1.3	4.2	7.0	0.4	--	--	--	0.6
	2017	1176.9	10.8	1280.1	3.5	0.5	N/S	3.7	1.3	N/S	5.5	0.6	--	--	--	0.3
C.V.	2019	5.2	2.9	4.9	5.0	2.2	0.8	2.1	254.9	211.0	8.1	4.2	--	25.0	--	--
	2018	7.3	4.1	6.7	6.1	2.8	1.1	3.2	76.0	47.8	10.50	4.0	37.8	--	--	--
	2017	6.9	4.6	5.9	4.8	3.2	1.3	1.6	118.5	191.6	6.8	6.0	--	--	--	--

Cooperator	Planted	Harvested	Plot Size
Paul Cameron	10/18/2019	7/15-16/2019	2 rows -- 30 in. 4 x 5 lattice
Gary and Ryan Mamer	10/6/2017	7/16-17/2018	2 rows -- 30 in. 5 x 5 lattice
Paul Cameron	10/5/2016	6/15-16/2017	2 rows -- 30 in. 5 x 5 lattice
Jim Mamer/Vince Wavra	10/12/2016	6/27-28/2017	2 rows -- 30 in. 5 x 5 lattice