

Imperial Valley Late Harvest Official Variety Trials

3 Year Data (2017-2019)

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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	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	31.3	150.7	6.1	121.7	1.5
		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	45.3	217.9	4.3	85.8	1.4
		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	Full 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	36.2	174.2	3.8	75.8	2.1
		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 Not re-entered into 2019-2020 trials	Specialty 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	14.2	68.1	4.4	87.8	1.9
		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 Not re-entered into 2019-2020 trials	Specialty 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	4.8	23.2	6.7	133.7	2.4
		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 Not re-entered into 2019-2020 trials		2019	22,854	274.7	27,322	83.3	16.4	90.1	252	0.0	0.2	65.4	6.1	105.4	27.2	131.0	4.6	91.8	0.8
		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							
SV143N	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	5.2	24.9	4.4	87.8	2.2
		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 604N	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	2.1	10.1	5.8	115.7	1.4
		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 19-20 Approved	20,490	255.4	25,145	79.4	15.8	87.8
97% of 19-20 Approved	19,875	247.7	24,390	77.0	15.4	85.1

Mean of Approved Varieties						
2019 Mean	5.8	100	20.8	100.0	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.	Rhizomania Root Rating*
													--- 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	<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	7.8	--	--	0.6
	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	44.2	25.0	--	n/a
	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	--	--	n/a
	2017	6.9	4.6	5.9	4.8	3.2	1.3	1.6	118.5	191.6	6.8	6.0	--	--	--	n/a

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