

Imperial Valley Late Harvest Official Variety Trials
2 Year Data (2017-2018)

Variety	Year	Gross Sugar/ Acre	Extractable Sugar/ Acre	Extractable Sugar/ Ton ⁺	Tons/ Acre	% Sugar	Purity	Final Stand Beets/1 00'	% Bolt	% Rot	Percent Emergence	Curly Top Rating	% of Fully Approved	Erwinia* Rating	% of Fully Approved	Powdery Mildew Rating*	% of Fully Approved	Rhizomania Root Rating*
												--- M = 150 ---		--M = 300		-- M = 100		
BTS 5460	2018	28,995	23,310	261.8	88.3	16.3	87.5	231	1.2	1.2	63.6	6.2	96.1	n/a	n/a	n/a	n/a	n/a
	2017	23,375	18,739	256.6	72.9	16.0	87.4	241	0.1	0.3	70.5	6.4	98.7	--	--	n/a	n/a	1.8
Average		26,185	21,025	259.2	80.6	16.2	87.5	236	0.6	0.8	67.1	--	--	--	--	--	--	--
BTS 5678	2018	27,396	21,807	256.4	85.0	16.1	86.9	237	0.0	5.6	65.0	6.6	102.3	n/a	n/a	n/a	n/a	n/a
	2017	23,054	18,626	261.3	71.1	16.2	87.9	240	0.0	0.1	79.5	6.6	101.8	--	--	n/a	n/a	2.1
Average		25,225	20,217	258.9	78.1	16.2	87.4	239	0.0	2.9	72.2	--	--	--	--	--	--	--
BTS 5780	2018	26,329	20,778	256.8	81.2	16.3	86.4	239	0.0	5.9	70.6	7.0	108.5	n/a	n/a	n/a	n/a	n/a
	2017	22,787	18,050	251.2	71.7	15.9	86.7	243	0.1	0.2	84.4	n/a	n/a	--	--	n/a	n/a	n/a
Average		24,558	19,414	254.0	76.4	16.1	86.6	241	0.1	3.1	77.5	--	--	--	--	--	--	--
BTS 5775	2018	26,362	20,793	252.3	82.9	16.0	86.5	231	0.4	6.2	70.1	6.8	105.4	n/a	n/a	n/a	n/a	n/a
	2017	23,550	18,729	254.4	73.8	16.0	87.0	242	0.2	0.2	85.2	n/a	n/a	--	--	n/a	n/a	n/a
Average		24,956	19,761	253.4	78.4	16.0	86.7	236	0.3	3.2	77.7	--	--	--	--	--	--	--
BTS 566N	2018	24,297	19,013	244.0	77.8	15.6	86.0	229	0.3	3.3	65.9	6.3	97.7	n/a	n/a	n/a	n/a	n/a
	2017	21,089	16,826	245.2	69.2	15.4	87.3	241	0.0	0.0	80.4	6.2	95.6	--	--	n/a	n/a	2.1
Average		22,693	17,920	244.6	73.5	15.5	86.7	235	0.2	1.6	73.1	--	--	--	--	--	--	
SV 971	2018	27,156	21,274	242.8	87.7	15.5	86.2	218	3.5	13.3	51.9	6.6	102.3	n/a	n/a	n/a	n/a	n/a
	2017	23,438	18,592	242.8	76.5	15.3	86.9	243	1.6	0.5	91.5	n/a	n/a	--	--	n/a	n/a	n/a
Average		25,297	19,933	242.8	82.1	15.4	86.6	230	2.5	6.9	71.7	--	--	--	--	--	--	--
BTS 5499	2018	25,387	19,901	244.1	81.7	15.6	86.2	236	14.9	2.4	75.3	6.2	96.1	n/a	n/a	n/a	n/a	n/a
	2017	23,110	18,266	238.5	76.7	15.1	86.8	244	8.0	0.2	93.8	6.3	97.1	--	--	n/a	n/a	2.2
Average		24,249	19,084	241.3	79.2	15.3	86.5	240	11.5	1.3	84.6	--	--	--	--	--	--	--
BTS 5600	2018	27,332	21,571	248.9	87.7	15.7	86.6	232	0.0	15.0	69.4	6.4	99.2	n/a	n/a	n/a	n/a	n/a
	2017	23,676	18,707	230.1	81.1	14.6	86.9	240	0.3	0.5	83.6	6.8	104.8	--	--	n/a	n/a	1.4
Average		25,504	20,139	239.5	84.4	15.2	86.7	236	0.1	7.7	76.5	--	--	--	--	--	--	--
SV143NT	2018	27,711	21,517	237.8	90.9	15.3	85.7	239	4.0	12.0	83.2	6.4	99.2	n/a	n/a	n/a	n/a	n/a
	2017	22,751	18,059	240.0	75.5	15.1	87.1	242	1.1	0.3	84.5	6.5	100.2	--	--	n/a	n/a	1.8
Average		25,231	19,788	238.9	83.2	15.2	86.4	240	2.6	6.2	83.8	--	--	--	--	--	--	--
SV2014	2018	23,480	18,155	237.0	76.6	15.3	85.4	233	1.4	10.3	69.6	6.0	93.0	n/a	n/a	n/a	n/a	n/a
	2017	20,134	15,875	234.2	68.1	14.9	86.8	242	0.9	0.2	78.3	6.6	101.8	--	--	n/a	n/a	2.5
Average		21,807	17,015	235.6	72.4	15.1	86.1	237	1.2	5.3	74.0	--	--	--	--	--	--	--
SV604TT	2018	25,235	19,614	235.9	83.1	15.2	85.8	228	1.5	7.9	60.1	6.6	102.3	n/a	n/a	n/a	n/a	n/a
	2017	23,062	18,129	234.5	77.5	14.9	86.4	239	0.3	0.1	71.7	n/a	n/a	--	--	n/a	n/a	2.0
Average		24,149	18,872	235.2	80.3	15.1	86.1	234	0.9	4.0	65.9	--	--	--	--	--	--	--
SV978	2018	25,024	19,629	238.9	82.4	15.2	86.4	227	1.4	10.1	54.5	6.3	97.7	n/a	n/a	n/a	n/a	n/a
	2017	22,185	17,216	227.2	76.0	14.6	85.8	237	0.4	0.1	69.5	n/a	n/a	--	--	n/a	n/a	n/a
Average		23,605	18,423	233.1	79.2	14.9	86.1	232	0.9	5.1	62.0	--	--	--	--	--	--	--

* varieties ranked by Extractable Sugar per Ton

Mean of Full Approved	24,380	19,257	244.1	79.0	15.5	86.7
97% of Full Approved	23,649	18,680	236.8	76.6	15.0	84.1

Mean of Fully Approved Varieties						
2018 Mean	6.5	n/a	n/a	n/a	n/a	n/a
2017 Mean	6.5	n/a	n/a	n/a	n/a	2.0

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												---	M = 150 ---		--M = 300		-- M = 100	

Pr>F	2018	<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	0.015	<0.0001	0.4	<0.0001	<0.0001						<0.0001
LSD	2018	1702.8	1439.5	9.9	4.9	0.4	1.0	7.4	1.3	4.2	7.0							
	2017	1280.1	1176.9	10.8	3.5	0.5	N/S	3.7	1.3	N/S	5.5	0.6						0.3
C.V.	2018	6.7	7.3	4.1	6.1	2.8	1.1	3.2	76.0	47.8	10.5							
	2017	5.9	6.9	4.6	4.8	3.2	1.3	1.6	118.5	191.6	6.8	6.0						--

<u>Cooperator</u>	<u>Planted</u>	<u>Harvested</u>	<u>Plot Size</u>
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

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

[†]Data not yet available.