

**Imperial Valley Early Harvest Official Variety Trials
2 Year Data (2022-2023)**

Variety	Approval Status for 2023-24 crop	Extractable Sugar/Acre	Extractable Sugar/Ton	Gross Sugar/Acre	Tons/Acre	% Sugar	Purity	Final Stand**	% Bolt	Percent Emergence*	Curly Top	% of Mkt.	Powdery Mildew [#]	% of Mkt.	Rhizomania Root Rating ^{##}
BTS 511N	Full Approval														
2023 Trial		14,639	301.8	17,423	48.4	18.0	90.0	160	0.0	35.7	--	--	2.6	76.5	2.0
2022 Trial		9,945	264.0	12,562	37.8	16.7	86.5	212	0.0	53.0	5.2	98.1	--	--	1.8
Average		12,292	282.9	14,993	43.1	17.4	88.3	186.0	0.0	44.4					
BTS 5255															
2023 Trial		15,813	282.8	18,796	56.2	16.8	90.5	175	0.0	44.7	--	--	3.1	91.2	2.2
2022 Trial		10,819	272.7	13,471	39.4	17.0	87.2	214	0.0	53.4	--	--	--	--	--
Average		13,316	277.8	16,133	47.8	16.9	88.9	194.5	0.0	49.1					
SV 983	Full Approval														
2023 Trial		13,257	284.4	15,900	46.6	17.1	89.7	100	0.0	15.5	--	--	2.8	82.4	3.2
2022 Trial		9,940	266.4	12,454	37.3	16.7	87.0	202	0.0	38.1	5.5	103.8	--	--	2.7
Average		11,599	275.4	14,177	42.0	16.9	88.4	151.0	0.0	26.8					
SV 1927															
2023 Trial		15,551	287.3	18,568	55.1	17.1	90.0	172	0.0	51.3	--	--	4.3	126.5	2.3
2022 Trial		10,161	263.0	12,703	38.7	16.5	87.2	212	0.0	58.5	--	--	--	--	--
Average		12,856	275.2	15,636	46.9	16.8	88.6	192.2	0.0	54.9					
SV 1915															
2023 Trial		15,313	285.2	18,495	54.1	17.1	89.5	172	0.0	51.1	--	--	3.7	108.8	2.5
2022 Trial		9,846	261.7	12,443	37.9	16.5	86.8	211	0.0	49.6	5.3	100.0	--	--	2.7
Average		12,580	273.5	15,469	46.0	16.8	88.2	191.5	0.0	50.4					
BTS 5678	Full Approval														
2023 Trial		15,769	278.7	18,888	57.1	16.7	90.1	173	0.0	47.6	--	--	3.6	105.9	1.8
2022 Trial		10,573	267.1	13,245	39.4	16.8	87.0	213	0.0	54.5	5.1	96.2	--	--	2.0
Average		13,171	272.9	16,066	48.3	16.8	88.6	193.0	0.0	51.1					
BTS 5460	Full Approval														
2023 Trial		15,548	277.7	18,520	56.1	16.6	90.1	171	0.0	53.5	--	--	4.1	120.6	2.2
2022 Trial		9,910	261.2	12,490	38.0	16.5	86.7	213	0.0	52.0	5.3	100.0	--	--	1.9
Average		12,729	269.5	15,505	47.1	16.6	88.4	192.0	0.0	52.8					
SV 602	Full Approval														
2023 Trial		16,142	267.1	19,519	61.2	16.2	89.3	154	0.0	31.0	--	--	3.9	114.7	2.4
2022 Trial		10,602	255.8	13,293	41.4	16.1	87.1	211	0.0	49.4	5.4	101.9	--	--	2.8
Average		13,372	261.5	16,406	51.3	16.2	88.2	182.5	0.0	40.2					
SV 911	Limited Approval														
2023 Trial		15,259	266.3	18,376	57.7	16.1	89.7	160	0.0	33.2	--	--	4.2	123.5	2.3
2022 Trial		10,361	252.9	13,073	41.0	16.0	86.8	212	0.0	50.2	5.3	100.0	--	--	2.7
Average		12,810	259.6	15,725	49.4	16.1	88.3	186.0	0.0	41.7					

Mean of Fully Approved (23-24)				15,429	46.3	16.7	88.4	180.9
97% of Fully Approved (23-24)				14,966	44.9	16.2	85.7	175.5

Mean of Fully Approved Varieties				
2023 Mean	--	--	3.4	100.0
2022 Mean	5.3	100.0	--	--
				2.3
				2.2

CV%

2023 Trial	2.4	1.6	2.6	3.6	1.3	0.5	3.1	--	12.7	--	15.7	--
2022 Trial	2.9	2.3	2.5	2.5	1.9	0.6	7.6	--	2.3	5.1	--	--

LSD (0.05)

2023 Trial	752.2	9.7	990.4	4.1	0.5	0.9	10.8	--	11.6	--	0.7	0.2
2022 Trial	587.0	NS	640.8	2.0	NS	NS	8.1	--	NS	0.4	--	0.3

Cooperator

Ruegger Farms	9/20/22
Jason Taylor	9/29/22
Horizon Farms	9/15/21
Lance Reeves	9/25/21

Planted

4/17/23
5/15/23
3/30/22
4/6/22

Plot Size

2 rows. 30" rows.
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Notes:

Experimental Design: RCBD
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Varieties ranked by Extractable Sugar per Ton.

* Emergence counts taken prior to thinning and converted to a percent.

** Final Stand counts converted to beets per 100 foot of row. Final stand counts taken after thinning.

[#] 2023 Powdery mildew ratings were taken from 2023 EH Location 2 on 5/9/23 on a 1-9 rating scale.

^{##} Root rating using 0-9 scale (0=healthy and 9=dead; ≥ 3 would be considered susceptible).