

2016-2017 Imperial Valley Early Harvest Trial Results

Site: Imperial Valley Early Harvest Official Variety Trial

Cooperator: Von Medearis

Plant Date: September 24, 2016

Harvest Date: April 7, 2017

Plot Size: 2 rows. 30" rows.

Experimental Trial Design : 5X5 lattice

Entry Name	Extractable Sugar per Acre	Extractable Sugar per Ton	Gross Sugar per Acre	Percent Sugar	Extractable Sugar Percent	Tons per Acre	Purity Percent	Nitrate	Tare Percent	Percent Emergence*	Percent Bolters	Stand Counts Beets/100' row**
SV 602 (16HX602RR)	13,215	240.4	15,957	14.6	12.0	54.9	89.9	42.1	0.9	70.7	0.0	237
SV 972	12,638	236.0	15,261	14.3	11.8	53.7	90.1	44.0	0.8	68.4	0.0	233
BTS 5600	12,576	244.5	15,210	14.8	12.2	51.4	89.5	51.4	2.2	80.1	0.0	240
BTS 5678	12,543	258.4	15,017	15.5	12.9	48.3	90.0	51.8	1.3	72.0	0.0	233
SV 501	12,357	250.7	14,915	15.1	12.5	49.3	89.7	48.1	1.6	76.9	0.0	241
SV 401 (12HX401RR)	11,889	239.3	14,488	14.5	12.0	50.2	89.6	58.3	1.2	86.8	0.0	239
SV 979	12,021	245.8	14,466	14.8	12.3	49.4	90.2	47.7	1.2	83.5	0.0	240
BTS 5460	11,760	242.3	14,434	14.9	12.1	48.4	88.6	60.6	1.8	64.7	0.0	235
BTS 5775	11,672	243.7	14,357	15.0	12.2	48.0	88.7	69.8	1.0	85.5	0.0	240
BTS 5715	11,701	243.0	14,295	14.9	12.2	49.1	89.0	55.6	3.1	89.7	0.0	244
BTS 5737	11,819	248.6	14,293	15.1	12.4	47.4	89.6	52.4	1.8	87.3	0.0	244
SV 601 (16HX601RR)	11,646	233.7	14,197	14.3	11.7	49.8	89.4	65.6	1.4	82.5	0.0	241
SV 971	11,441	243.9	13,946	14.9	12.2	46.8	89.1	58.7	1.2	85.3	0.0	243
BTS 5780	11,263	251.6	13,785	15.4	12.6	45.3	88.8	46.1	1.7	86.1	0.0	241
BTS 5499	11,337	244.0	13,784	14.9	12.2	46.4	89.2	43.3	2.2	84.3	0.0	240
SV 978	10,889	242.8	13,328	14.9	12.1	44.7	88.9	45.0	2.6	69.6	0.0	231
SV 604NTT (16HX604RR)	10,767	236.4	13,267	14.6	11.8	45.2	88.5	47.4	2.8	63.6	0.0	223
SV 143 (12HX143RR)	10,335	231.9	12,784	14.3	11.6	44.5	88.5	58.0	3.8	76.2	0.0	238
BTS 541N	10,383	247.8	12,778	15.3	12.4	42.1	88.4	42.4	1.9	85.0	0.0	240
BTS 566N	10,315	240.4	12,711	14.8	12.0	43.0	88.6	52.8	2.8	76.2	0.0	239
SV 508 (15HX508RR)	10,424	242.3	12,694	14.7	12.1	43.0	89.4	54.1	1.4	81.8	0.0	239
SV 977	10,243	239.5	12,572	14.7	12.0	42.9	88.9	35.1	2.6	76.6	0.0	240
BTS 579N	10,156	262.9	12,346	15.9	13.1	38.6	89.2	71.9	1.4	81.3	0.0	240
SV 2014RR	9,684	235.2	12,017	14.6	11.8	41.2	88.0	42.7	7.3	74.3	0.0	237
FILLER	10,600	238.5	13,027	14.6	11.9	44.4	88.8	76.5	2.0	73.0	0.0	237
Mean	11347.0	243.4	13837.0	14.8	12.2	46.7	89.1	52.9	2.1	78.5		
CV	6.2	4.1	5.6	3.1	4.1	4.9	1.0	45.2	52.9	6.4		
LSD (0.05)	689.30	9.91	765.77	0.46	0.50	2.25	0.85	23.64	1.09	5.00		
Pr>F	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0261	<0.0001	<0.0001		
Error MS	487341.2	100.4	601463.6	0.214	0.254	5.2	0.731	571.7	1.209	25.52		
Reps	8	8	8	8	8	8	8	8	8	8		

* 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.

*Sprangle ratings made by Mark Bloomquist on the harvester. 1-5 scale. 1 = no sprangles. 5 = very sprangled.

** Mildew Ratings conducted by Israel Santiago and Mark Bloomquist on March 15. Ratings are an average of both raters. 1 = low disease. 5 = high disease.

*** Stand counts converted to beets per 100 foot of row.