

SMBSC Agricultural Staff Variety Strip Trial - Summary

Variety	Stand Count			Extractable		
	28 DAP					
	Beets/100' row	Sugar %	Purity %	Tons / Acre	Sugar per Acre	Percent of Mean Revenue per Acre
Crystal M579	188.9	15.6	90.4	23.0	6067.3	109.3%
Beta 9606	183.0	14.9	90.3	22.9	5664.2	97.0%
Beta 9666	180.6	15.2	89.6	23.0	5771.8	99.1%
Hill 2219	178.4	15.1	90.5	19.7	5005.8	84.6%
SV 862	196.5	15.0	91.1	23.3	5915.7	102.0%
SV 863	183.6	15.0	90.7	24.9	6275.8	108.0%
Mean	185.2	15.1	90.4	22.8	5783.4	100.0
%CV	6.0	2.2	1.2	11.1	11.1	13.9
PR>F	0.0044	<0.0001	0.0673	0.0009	0.0007	<0.0001
LSD (0.05)	9.4	0.3	1.0	2.2	548.0	11.9
Reps	11	11	11	11	11	11

Combined data from 11 locations with each location considered a replicate.

Locations: Renville, Hector, Redwood, Olivia, Belgrade, Raymond, Murdock, Maynard, Lake Lillian (2), and Benson.

Revenue is calculated using the 2017 crop payment calculator, utilizing values released Nov. 22, 2017

SMBSC Variety Strip Trial - Renville

<u>Variety</u>	<u>Stand Count 28 DAP</u>			<u>Tons / Acre</u>	<u>Extractable</u>	<u>Extractable</u>	<u>Percent of</u>
	<u>Beets/100' row</u>	<u>Sugar %</u>	<u>Purity %</u>		<u>Sugar per Ton</u>	<u>Sugar per Acre</u>	<u>Mean Revenue per Acre</u>
Crystal M579	180.0	15.8	90.9	21.1	266.9	5627.8	113.1%
Beta 9606	201.3	14.7	87.4	20.0	234.5	4689.5	79.7%
Beta 9666	171.3	15.3	91.1	18.6	259.0	4814.3	93.5%
Hill 2219	175.0	15.4	89.1	20.3	253.6	5158.2	97.6%
SV 862	202.5	15.1	90.5	24.1	253.8	6109.3	115.7%
SV 863	201.3	15.0	89.0	22.4	246.0	5514.2	100.3%
Average	188.5	15.2	89.7	21.1	252.3	5318.9	100.0%

Planted: May 7, 2018

Harvested: October 6, 2018

Agriculturalist: Cody Bakker

SMBSC Variety Strip Trial - Hector

<u>Variety</u>	<u>Stand Count 28 DAP</u>			<u>Tons / Acre</u>	<u>Extractable</u>	<u>Extractable</u>	<u>Percent of</u>
	<u>Beets/100' row</u>	<u>Sugar %</u>	<u>Purity %</u>		<u>Sugar per Ton</u>	<u>Sugar per Acre</u>	<u>Mean Revenue per Acre</u>
Crystal M579	183.3	15.7	90.6	15.5	262.9	4065.5	90.4%
Beta 9606	180.0	14.8	90.5	19.9	247.0	4913.1	101.1%
Beta 9666	181.7	15.5	91.0	20.9	261.7	5463.7	120.9%
Hill 2219	188.3	14.8	90.9	12.8	249.5	3184.8	66.4%
SV 862	205.0	15.1	92.1	19.6	258.2	5052.6	110.0%
SV 863	136.7	15.0	90.8	20.8	252.4	5251.0	111.2%
Beta 92RR30*	170.0	14.9	90.2	14.8	248.2	3664.6	75.9%
Crystal RR018*	191.7	14.5	90.0	18.5	239.8	4425.0	104.5%
Average	179.2	15.1	91.0	18.2	255.3	4655.1	100.0%

Planted: May 7, 2018

Harvested: October 31, 2018

Agriculturalist: Pete Caspers

*Denotes variety shown, but not included in statistical analysis

SMBSC Variety Strip Trial - Redwood

Variety	Stand Count 28 DAP			Tons / Acre	Extractable	Extractable	Percent of
	Beets/100' row	Sugar %	Purity %		Sugar per Ton	Sugar per Acre	Mean Revenue per Acre
Crystal M579	161.3	14.0	88.3	21.6	225.4	4860.6	97.7%
Beta 9606	167.5	13.6	89.6	26.3	222.5	5855.7	115.0%
Beta 9666	143.8	13.8	88.4	24.1	223.2	5378.8	106.2%
Hill 2219	151.3	14.0	89.6	19.8	230.4	4562.5	95.3%
SV 862	185.0	13.6	90.0	20.3	225.1	4575.3	91.8%
SV 863	155.0	13.4	88.4	23.7	215.3	5098.3	93.9%
Beta 9475*	163.8	13.3	89.6	25.1	217.6	5461.1	102.7%
Average	160.7	13.7	89.0	22.6	223.7	5055.2	100.0%

Planted: May 3, 2018

Harvested: September 12, 2018

Agriculturalist: Chris Dunsmore

*Denotes variety shown, but not included in statistical analysis

SMBSC Variety Strip Trial - Olivia

Variety	Stand Count 28 DAP			Tons / Acre	Extractable	Extractable	Percent of
	Beets/100' row	Sugar %	Purity %		Sugar per Ton	Sugar per Acre	Mean Revenue per Acre
Crystal M579	187.5	15.9	90.3	23.4	266.7	6232.1	98.8%
Beta 9606	171.3	15.1	89.9	23.9	250.8	6001.6	87.9%
Beta 9666	166.3	15.5	90.5	24.7	260.9	6435.5	99.3%
Hill 2219	167.5	15.5	90.7	26.1	261.4	6810.4	105.4%
SV 862	167.5	15.2	90.4	26.6	254.2	6757.6	100.8%
SV 863	175.0	15.2	90.1	28.6	253.6	7246.7	107.8%
Average	172.5	15.4	90.3	25.5	257.9	6580.7	100.0%

Planted: May 5, 2018

Harvested: September 17, 2018

Agriculturalist: Chris Dunsmore

SMBSC Variety Strip Trial - Belgrade

<u>Variety</u>	<u>Stand Count</u> 28 DAP			<u>Tons / Acre</u>	<u>Extractable</u>	<u>Extractable</u>	<u>Percent of</u>
	<u>Beets/100' row</u>	<u>Sugar %</u>	<u>Purity %</u>		<u>Sugar</u> <u>per Ton</u>	<u>Sugar</u> <u>per Acre</u>	<u>Mean Revenue</u> <u>per Acre</u>
Crystal M579	211.3	16.2	90.7	31.9	272.9	8692.5	107.5%
Beta 9606	195.0	15.3	90.4	31.9	256.3	8187.1	94.3%
Beta 9666	210.0	15.7	90.1	32.5	261.4	8497.8	100.2%
Hill 2219	197.5	15.1	90.6	28.9	252.4	7288.5	82.4%
SV 862	215.0	15.0	90.9	35.3	252.0	8906.4	100.4%
SV 863	217.5	15.4	91.8	36.9	263.1	9698.6	115.2%
Beta 9475*	213.8	15.6	90.7	34.6	262.9	9109.0	108.1%
Crystal 018*	188.8	14.9	89.6	32.7	246.1	8049.1	88.0%
Average	207.7	15.4	90.7	32.9	259.7	8545.2	100.0%

Planted: May 3, 2018

Harvested: October 31, 2018

Agriculturalist: Jared Kelm

*Denotes variety shown, but not included in statistical analysis

SMBSC Variety Strip Trial - Raymond

<u>Variety</u>	<u>Stand Count</u> 28 DAP			<u>Tons / Acre</u>	<u>Extractable</u>	<u>Extractable</u>	<u>Percent of</u>
	<u>Beets/100' row</u>	<u>Sugar %</u>	<u>Purity %</u>		<u>Sugar</u> <u>per Ton</u>	<u>Sugar</u> <u>per Acre</u>	<u>Mean Revenue</u> <u>per Acre</u>
Crystal M579	186.7	15.9	91.8	26.2	272.3	7140.6	132.3%
Beta 9606	192.2	14.7	90.8	23.5	246.0	5783.0	94.9%
Beta 9666	185.6	15.6	91.2	15.3	263.7	4039.7	72.2%
Hill 2219	176.7	15.9	92.5	17.1	273.9	4680.5	87.3%
SV 862	196.7	14.7	91.3	22.6	248.3	5611.6	93.2%
SV 863	188.9	15.5	91.3	25.7	262.6	6751.2	120.1%
Average	187.8	15.4	91.5	21.7	261.1	5667.8	100.0%

Planted: May 9, 2018

Harvested: October 24, 2018

Agriculturalist: Jared Kelm

SMBSC Variety Strip Trial - Murdock

<u>Variety</u>	<u>Stand Count</u> <u>28 DAP</u>		<u>Purity %</u>	<u>Tons / Acre</u>	<u>Extractable</u>	<u>Extractable</u>	<u>Percent of</u>
	<u>Beets/100' row</u>	<u>Sugar %</u>			<u>Sugar</u> <u>per Ton</u>	<u>Sugar</u> <u>per Acre</u>	<u>Mean Revenue</u> <u>per Acre</u>
Crystal M579	198.8	15.7	90.7	27.6	264.8	7296.0	111.8%
Beta 9606	185.0	15.2	89.7	27.9	252.3	7029.8	101.7%
Beta 9666	178.8	15.6	88.9	28.7	256.4	7366.2	108.7%
Hill 2219	186.3	15.5	89.8	22.6	257.4	5817.6	86.3%
SV 862	191.3	16.2	90.5	22.3	271.6	6047.0	95.3%
SV 863	173.8	15.4	90.7	25.0	258.6	6452.4	96.2%
Average	185.6	15.6	90.0	25.7	260.2	6668.2	100.0%

Planted: May 18, 2018

Harvested: October 3, 2018

Agriculturalist: Bill Luepke

SMBSC Variety Strip Trial - Maynard

<u>Variety</u>	<u>Stand Count</u> <u>28 DAP</u>		<u>Purity %</u>	<u>Tons / Acre</u>	<u>Extractable</u>	<u>Extractable</u>	<u>Percent of</u>
	<u>Beets/100' row</u>	<u>Sugar %</u>			<u>Sugar</u> <u>per Ton</u>	<u>Sugar</u> <u>per Acre</u>	<u>Mean Revenue</u> <u>per Acre</u>
Crystal M579	182.5	16.5	91.8	22.4	282.8	6335.3	117.9%
Beta 9606	176.3	15.7	92.7	15.1	271.4	4095.9	72.8%
Beta 9666	183.8	14.9	85.7	24.2	231.0	5584.0	79.4%
Hill 2219	187.5	16.3	92.3	17.5	280.3	4900.6	90.3%
SV 862	193.8	15.9	94.0	24.2	279.3	6763.5	124.2%
SV 863	171.3	16.3	93.8	21.4	286.5	6119.4	115.4%
Average	182.5	15.9	91.7	20.8	271.9	5633.1	100.0%

Planted: May 16, 2018

Harvested: September 27, 2018

Agriculturalist: Austin Neubauer

SMBSC Variety Strip Trial - Lake Lillian

<u>Variety</u>	<u>Stand Count</u> <u>28 DAP</u>		<u>Purity %</u>	<u>Tons / Acre</u>	<u>Extractable</u>	<u>Extractable</u>	<u>Percent of</u>
	<u>Beets/100' row</u>	<u>Sugar %</u>			<u>Sugar</u> <u>per Ton</u>	<u>Sugar</u> <u>per Acre</u>	<u>Mean Revenue</u> <u>per Acre</u>
Crystal M579	193.8	15.5	89.6	13.7	255.9	3516.0	101.5%
Beta 9606	176.3	15.0	91.3	17.1	254.5	4341.6	124.4%
Beta 9666	186.3	15.3	89.2	14.4	251.8	3636.8	102.7%
Hill 2219	181.3	14.5	91.0	9.4	244.2	2290.5	62.0%
SV 862	202.5	14.7	90.5	13.5	246.0	3313.9	90.6%
SV 863	191.3	15.0	90.7	16.8	251.0	4223.7	118.8%
Average	188.6	15.0	90.4	14.2	250.6	3553.8	100.0%

Planted: May 7, 2018

Harvested: September 13, 2018

Agriculturalist: Les Plumley

SMBSC Variety Strip Trial - Lake Lillian

<u>Variety</u>	<u>Stand Count</u> <u>28 DAP</u>		<u>Purity %</u>	<u>Tons / Acre</u>	<u>Extractable</u>	<u>Extractable</u>	<u>Percent of</u>
	<u>Beets/100' row</u>	<u>Sugar %</u>			<u>Sugar</u> <u>per Ton</u>	<u>Sugar</u> <u>per Acre</u>	<u>Mean Revenue</u> <u>per Acre</u>
Crystal M579	193.8	14.9	90.0	16.5	247.7	4079.8	117.1%
Beta 9606	176.3	13.8	90.4	17.5	228.6	3995.8	102.1%
Beta 9666	186.3	14.6	89.5	16.4	240.1	3947.1	108.6%
Hill 2219	181.3	14.2	89.0	10.1	230.8	2331.0	60.5%
SV 862	202.5	14.4	90.1	15.5	239.6	3714.0	101.9%
SV 863	191.3	14.4	89.8	17.1	237.3	4051.6	109.7%
Average	188.6	14.4	89.8	15.5	237.3	3686.6	100.0%

Planted: May 7, 2018

Harvested: October 31, 2018

Agriculturalist: Les Plumley

SMBSC Variety Strip Trial - Benson

<u>Variety</u>	<u>Stand Count</u> <u>28 DAP</u>		<u>Purity %</u>	<u>Tons / Acre</u>	<u>Extractable</u>	<u>Extractable</u>	<u>Percent of</u>
	<u>Beets/100' row</u>	<u>Sugar %</u>			<u>Sugar</u> <u>per Ton</u>	<u>Sugar</u> <u>per Acre</u>	<u>Mean Revenue</u> <u>per Acre</u>
Crystal M579	198.8	16.0	89.8	33.4	266.4	8893.6	114.2%
Beta 9606	191.3	15.6	90.1	28.5	259.7	7413.0	92.5%
Beta 9666	192.5	15.0	89.8	33.5	248.9	8325.8	98.5%
Hill 2219	170.0	15.1	90.3	31.9	252.1	8038.6	96.7%
SV 862	200.0	14.8	91.7	32.7	251.0	8221.0	98.4%
SV 863	217.5	14.5	91.0	35.3	244.6	8626.1	99.8%
Beta 9475*	211.3	15.8	92.1	30.2	270.5	8163.7	106.6%
Maribo 109*	183.8	16.0	90.0	31.5	267.8	8446.8	109.1%
Average	195.0	15.2	90.4	32.5	253.8	8253.0	100.0%

Planted: May 11, 2018

Harvested: October 24, 2018

Agriculturalist: Scott Thaden

*Denotes variety shown, but not included in statistical analysis

SMBSC Variety Strip Trial - Appleton

<u>Variety</u>	<u>Sugar %</u>	<u>Purity %</u>	<u>Tons / Acre</u>	<u>Extractable</u>	<u>Extractable</u>	<u>Percent of</u>
				<u>Sugar</u> <u>per Ton</u>	<u>Sugar</u> <u>per Acre</u>	<u>Mean Revenue</u> <u>per Acre</u>
Crystal M579	15.8	88.7	27.4	258.1	7061.9	114.0%
Beta 9606	14.7	88.2	22.5	237.6	5342.6	77.3%
Beta 9666	15.3	88.1	27.4	247.2	6777.4	103.6%
Hill 2219	15.0	88.4	26.7	243.8	6517.7	97.9%
SV 862	15.4	89.2	28.0	254.1	7110.5	112.6%
SV 863	15.1	88.6	25.4	245.7	6232.5	94.5%
Beta 9475*	15.0	88.7	27.7	244.9	6796.2	102.7%
Crystal 018*	15.3	88.4	23.3	247.9	5765.2	88.5%
Average	15.2	88.5	26.2	247.7	6507.1	100.00%

Planted: May 21, 2018

Harvested: September 13, 2018

Agriculturalist: Scott Thaden

*Denotes variety shown, but not included in statistical analysis