

SMBSC Variety Strip Trial - Summary of Eight Locations

<u>Variety</u>	<u>Stand Count 28 DAP Beets/100' row</u>	<u>Sugar %</u>	<u>Purity %</u>	<u>Tons / Acre</u>	<u>Extractable Sugar per Acre</u>	<u>Percent of Mean Revenue per Acre</u>
Beta 9475	207.6	15.1	92.0	31.1	8016.6	114.2
Crystal M380	177.4	14.9	91.3	27.1	6822.1	94.7
Crystal RR018	216.9	15.2	91.7	28.3	7306.3	104.2
Hilleshog 9528RR	185.8	14.3	91.9	30.4	7397.0	99.3
SV RR865	159.3	14.0	90.9	27.0	6328.7	81.1
SV RR958	205.8	14.6	92.0	31.1	7739.4	106.5
Mean	192.1	14.7	91.6	29.2	7268.3	100.0
%CV	5.2	2.0	0.6	8.9	9.3	10.9
PR>F	<0.0001	<0.0001	0.0005	0.0029	0.0002	<0.0001
LSD (0.05)	10.1	0.3	0.5	2.6	684.4	11.0
Reps	8	8	8	8	8	8

Combined data of 8 locations. Each location is considered a replicate.

Locations included are: Maynard, Danube, Raymond, Belgrade, Lake Lillian, Montevideo, and Renville.

Revenue calculated using the October 15, 2015 payment with the new payment formula for 2016

2016 SMBSC Variety Strip Trial - Maynard

<u>Variety</u>	<u>Stand Count</u> 28 DAP			<u>Tons / Acre</u>	<u>Extractable</u> <u>Sugar</u> <u>per Acre</u>	<u>Percent of Mean</u> <u>Revenue per Acre</u>
	<u>Beets/100' row</u>	<u>Sugar %</u>	<u>Purity %</u>			
Beta 9475	208	15.6	92.7	30.8	8299.4	107.3
Crystal M380	190	15.1	91.7	29.5	7592.9	94.1
Crystal RR018	220	14.9	91.5	30.0	7582.9	92.3
Hilleshog 9528RR	208	14.5	92.3	34.9	8674.8	103.7
SV RR865	180	14.5	92.1	33.0	8144.9	96.8
SV RR958	233	14.9	92.3	33.8	8628.2	105.9
Beta 90RR54		15.2	92.6	33.0	8674.6	109.6
Mean	207	14.9	92.1	32.0	8153.9	100.0

Planted: April 14

Harvested: September 20

Agriculturist - Cody Bakker

2016 SMBSC Variety Strip Trial - Danube

<u>Variety</u>	<u>Stand Count</u> 28 DAP			<u>Tons / Acre</u>	<u>Extractable</u> <u>Sugar</u> <u>per Acre</u>	<u>Percent of Mean</u> <u>Revenue per Acre</u>
	<u>Beets/100' row</u>	<u>Sugar %</u>	<u>Purity %</u>			
Beta 9475	210	13.8	93.2	33.1	7913.0	117.3
Crystal M380	179	13.8	92.2	26.1	6142.8	89.4
Crystal RR018	213	13.5	92.4	29.6	6814.1	96.8
Hilleshog 9528RR	191	13.4	93.5	35.8	8320.9	119.3
SV RR865	159	13.1	92.7	29.0	6505.1	89.4
SV RR958	204	13.5	93.5	32.2	7547.3	109.1
Crystal M375	210	12.4	93.8	28.3	6085.8	78.7
Mean	195	13.4	93.0	30.6	7047.0	100.0

Planted: April 14

Harvested: September 30

Agriculturist - Chris Dunsmore

2016 SMBSC Variety Strip Trial - Belgrade

<u>Variety</u>	<u>Stand Count</u> <u>28 DAP</u>			<u>Tons / Acre</u>	<u>Extractable</u>	<u>Percent of Mean</u> <u>Revenue per Acre</u>
	<u>Beets/100' row</u>	<u>Sugar %</u>	<u>Purity %</u>		<u>Sugar</u> <u>per Acre</u>	
Beta 9475	225	15.2	91.4	29.9	7701.7	108.9
Crystal M380	183	15.3	91.6	28.1	7330.9	104.9
Crystal RR018	245	16.1	91.1	31.5	8570.9	127.3
Hilleshog 9528RR	230	14.5	91.0	19.9	4837.8	64.6
SV RR865	163	14.1	89.9	20.5	4761.9	60.3
SV RR958	230	14.7	91.5	31.5	7838.5	107.1
Beta 9054	198	15.6	91.4	31.9	8439.9	122.3
Crystal M375	228	15.5	91.2	27.7	7276.1	104.5
Mean	213	15.1	91.1	27.6	7094.7	100.0

Planted: April 16

Harvested: October 16

Agriculturist - Jared Kelm

2016 SMBSC Variety Strip Trial - Raymond

<u>Variety</u>	<u>Stand Count</u> <u>28 DAP</u>			<u>Tons / Acre</u>	<u>Extractable</u>	<u>Percent of Mean</u> <u>Revenue per Acre</u>
	<u>Beets/100' row</u>	<u>Sugar %</u>	<u>Purity %</u>		<u>Sugar</u> <u>per Acre</u>	
Beta 9475	180	16.7	92.6	28.8	8381.9	115.2
Crystal M380	153	16.0	91.2	26.8	7296.7	95.0
Crystal RR018	188	16.6	91.7	27.5	7826.4	105.9
Hilleshog 9528RR	138	15.8	91.6	28.4	7633.3	98.4
SV RR865	133	15.3	91.2	26.2	6779.1	84.5
SV RR958	160	15.6	91.9	29.5	7875.1	101.0
Mean	159	16.0	91.7	27.9	7632.1	100.0

Planted: April 22

Harvested: October 19

Agriculturist - Jared Kelm

2016 SMBSC Variety Strip Trial - Lake Lillian - Early Harvested Strip

<u>Variety</u>	<u>Stand Count</u> <u>28 DAP</u>			<u>Tons / Acre</u>	<u>Extractable</u>	<u>Percent of Mean</u> <u>Revenue per Acre</u>
	<u>Beets/100' row</u>	<u>Sugar %</u>	<u>Purity %</u>		<u>Sugar</u> <u>per Acre</u>	
Beta 9475	205	14.7	92.0	28.3	7122.7	111.1
Crystal M380	170	14.7	91.8	22.6	5662.4	87.9
Crystal RR018	205	15.2	92.2	25.4	6642.1	107.5
Hilleshog 9528RR	168	14.2	91.1	29.1	6944.6	102.2
SV RR865	150	14.5	91.7	21.4	5279.1	80.6
SV RR958	200	14.9	92.2	27.4	6991.4	110.6
Mean	183	14.7	91.8	25.7	6440.4	100.0

Planted: April 16

Harvested: September 14

Agriculturist - Les Plumley

SMBSC Variety Strip Trial - Lake Lillian - Late Harvested Strip

<u>Variety</u>	<u>Stand Count</u> <u>28 DAP</u>			<u>Tons / Acre</u>	<u>Extractable</u>	<u>Percent of Mean</u> <u>Revenue per Acre</u>
	<u>Beets/100' row</u>	<u>Sugar %</u>	<u>Purity %</u>		<u>Sugar</u> <u>per Acre</u>	
Beta 9475	205	15.5	93.2	31.0	8373.2	125.0
Crystal M380	170	15.2	92.3	26.4	6866.1	99.1
Crystal RR018	205	15.5	92.1	25.8	6856.1	100.9
Hilleshog 9528RR	168	14.2	92.6	31.1	7601.9	102.9
SV RR865	150	13.9	91.1	23.9	5583.7	71.8
SV RR958	200	14.7	92.4	28.5	7175.5	100.4
Mean	183	14.8	92.3	27.8	7076.1	100.0

Planted: April 16

Harvested: October 21

Agriculturist - Les Plumley

2016 SMBSC Variety Strip Trial - Renville

<u>Variety</u>	<u>Stand Count</u> 28 DAP			<u>Tons / Acre</u>	<u>Extractable</u> <u>Sugar</u> <u>per Acre</u>	<u>Percent of Mean</u> <u>Revenue per Acre</u>
	<u>Beets/100' row</u>	<u>Sugar %</u>	<u>Purity %</u>			
Beta 9475	220	14.3	89.9	38.1	8979.1	111.7
Crystal M380	194	14.1	88.9	33.1	7584.7	91.1
Crystal RR018	216	14.7	90.9	33.7	8344.1	109.5
Hilleshog 9528RR	198	14.1	90.9	35.2	8351.0	104.5
SV RR865	176	13.0	88.1	35.3	7344.7	77.2
SV RR958	204	14.1	90.8	35.9	8487.4	105.9
Mean	201	14.0	89.7	35.1	8120.7	100.0

Planted: April 15

Harvested: October 18

Agriculturist - Mike Schjenken

SMBSC Variety Strip Trial - Montevideo

<u>Variety</u>	<u>Stand Count</u> 28 DAP			<u>Tons / Acre</u>	<u>Extractable</u> <u>Sugar</u> <u>per Acre</u>	<u>Percent of Mean</u> <u>Revenue per Acre</u>
	<u>Beets/100' row</u>	<u>Sugar %</u>	<u>Purity %</u>			
Beta 9475	208	15.0	91.3	28.9	7361.7	116.0
Crystal M380	180	14.9	90.8	24.4	6100.0	94.2
Crystal RR018	243	15.0	91.3	23.0	5813.4	91.0
Hilleshog 9528RR	185	14.0	91.9	28.6	6811.7	99.8
SV RR865	163	13.9	90.7	26.9	6230.8	88.6
SV RR958	215	14.3	91.6	30.4	7372.3	110.4
Mean	199	14.5	91.2	26.4	6463.5	100.0

Planted: May 5

Harvested: October 14

Agriculturist - Scott Thaden

SMBSC Variety Strip Trial - Appleton

<u>Variety</u>	<u>Stand Count 28 DAP Beets/100' row</u>	<u>Sugar %</u>	<u>Purity %</u>	<u>Tons / Acre</u>	<u>Extractable Sugar per Acre</u>	<u>Percent of Mean Revenue per Acre</u>
Beta 9475	238	15.4	92.2	33.5	8877.1	104.1
Crystal M380	215	16.1	92.7	32.0	8919.6	109.4
Crystal RR018	208	16.1	91.6	27.9	7640.7	92.3
Hilleshog 9528RR	220	15.2	92.7	33.7	8853.7	102.9
SV RR865	178	14.3	90.6	35.3	8471.9	89.8
SV RR958	215	15.4	92.3	31.3	8268.9	96.7
Crystal M375	215	16.5	92.9	30.7	8805.7	110.5
Beta 90RR54	205	15.5	92.2	30.0	7981.7	93.9
Beta 92RR60		16.7	92.3	30.5	8766.1	110.2
Mean	212.33	15.4	92.0	32.3	8505.3	100.0

Planted: 4/14/2016
 Harvested: 9/19/2016
 Agriculturist: Scott Thaden

* Strip Trial was not machine harvested. Ten foot of row was harvested from 10 points across the strip trial for each variety and yields calculated.