

SMBSC Agricultural Staff Variety Strip Trial - Summary

<u>Variety</u>	Stand Count			Extractable		
	28 DAP			Sugar	Percent of Mean	
	<u>Beets/100' row</u>	<u>Sugar %</u>	<u>Purity %</u>	<u>Tons / Acre</u>	<u>per Acre</u>	<u>Revenue per Acre</u>
Beta 9780	190	15.9	92.0	23.3	6377.7	113.1%
Crystal M623	186	15.4	91.2	23.1	6055.7	100.7%
Hill 2219	166	15.3	91.7	19.2	5062.1	80.4%
Hill 9865	177	15.2	91.7	21.3	5521.0	91.3%
SV 863	185	15.3	92.3	24.3	6407.9	108.5%
SV 881	198	15.4	91.8	24.1	6366.0	106.0%
Mean	184	15.4	91.8	22.6	5965.1	100.0
%CV	8	1.7	0.9	9.2	9.5	11.2
PR>F	<0.0001	0.0004	0.2265	0.0004	0.0003	<0.0001
LSD (0.05)	16	0.3	NS	2.3	618.8	12.3
Reps	7	7	7	7	7	7

Combined data from 7 locations with each location considered a replicate.

Locations: Renville, Hector, Olivia, Belgrade, Raymond, Maynard, and Bird Island.

Revenue is calculated using the 2018 crop payment calculator, utilizing values released Nov. 28, 2018

SMBSC Variety Strip Trial - Renville

Variety	28 DAP Stand				Extractable	Extractable	Percent Rev/Acre	Variety
	Beets/100' row	Sugar %	Purity %	Tons / Acre	Sugar per Ton	Sugar per Acre		
Beta 9780	189	16.3	91.7	14.1	279.2	3945.8	116.8%	Beta 9780
Crystal M623	176	16.0	91.4	14.9	271.7	4051.8	115.0%	Crystal M623
Hilleshog 2219	155	16.0	90.9	8.0	270.6	2161.0	61.0%	Hilleshog 2219
Hilleshog 9865	190	16.0	91.7	12.2	272.8	3339.7	95.5%	Hilleshog 9865
SV 863	189	15.8	91.1	14.5	267.3	3863.0	106.8%	SV 863
SV 881	201	15.8	91.5	14.0	268.7	3763.5	105.0%	SV 881
Hilleshog 2326*	170	15.7	91.4	9.0	267.1	2396.0	66.2%	Hilleshog 2326*
Hilleshog 2329*	173	16.0	91.3	12.1	272.6	3305.8	94.3%	Hilleshog 2329*
Average	183	16.0	91.4	13.0	271.7	3520.8	100.0%	Average

Planted: June 3, 2019

Harvested: October 6, 2019

Agriculturalist: Cody Bakker

*Denotes variety shown with final data, but not included with average/statistical analysis

SMBSC Variety Strip Trial - Hector

Variety	28 DAP Stand				Extractable	Extractable	Percent Rev/Acre	Variety
	Beets/100' row	Sugar %	Purity %	Tons / Acre	Sugar per Ton	Sugar per Acre		
Beta 9780	219	16.7	92.9	25.5	289.8	7399.0	116.1%	Beta 9780
Crystal M623	221	15.8	91.6	24.2	268.6	6504.4	91.2%	Crystal M623
Hilleshog 2219	223	15.9	92.8	25.1	276.0	6937.9	101.6%	Hilleshog 2219
Hilleshog 9865	224	15.3	91.9	21.0	260.8	5485.0	73.2%	Hilleshog 9865
SV 863	244	15.6	93.4	25.7	273.1	7007.8	100.9%	SV 863
SV 881	246	16.1	93.5	27.4	282.2	7736.9	117.0%	SV 881
Hilleshog 9739*	223	15.6	93.4	23.6	272.7	6429.3	92.4%	Hilleshog 9739*
Hilleshog 2326*	226	15.5	92.6	22.7	268.3	6081.7	85.1%	Hilleshog 2326*
Hilleshog 2329*	224	16.0	92.9	20.4	277.6	5672.1	83.7%	Hilleshog 2329*
Average	229	15.9	92.7	24.8	275.1	6845.2	100.0%	Average

Planted: May 7, 2019

Harvested: October 15, 2019

Agriculturalist - Pete Caspers

*Denotes variety shown with final data, but not included with average/statistical analysis

SMBSC Variety Strip Trial - Olivia

Variety	28 DAP Stand				Extractable	Extractable	Percent Rev/Acre	Variety
	Beets/100' row	Sugar %	Purity %	Tons / Acre	Sugar per Ton	Sugar per Acre		
Beta 9780	176	16.5	91.8	32.7	283.4	9278.1	102.4%	Beta 9780
Crystal M623	158	16.7	92.3	31.3	288.2	9018.0	101.9%	Crystal M623
Hilleshog 2219	128	16.5	92.3	31.6	285.5	9015.5	100.5%	Hilleshog 2219
Hilleshog 9865	151	16.3	92.3	30.2	281.2	8493.0	92.7%	Hilleshog 9865
SV 863	163	16.1	92.5	34.8	278.2	9676.8	103.9%	SV 863
SV 881	153	16.2	92.6	32.1	281.3	9029.1	98.6%	SV 881
Crystal M509*	174	15.8	92.5	37.7	273.0	10301.8	107.5%	Crystal M509
Average	155	16.4	92.3	32.1	283.0	9085.1	100.0%	Average

Planted: May 6, 2019

Harvested: October 15, 2019

Agriculturalist: Chris Dunsmore

*Denotes variety shown with final data, but not included with average/statistical analysis

SMBSC Variety Strip Trial - Belgrade**

Variety	28 DAP Stand				Extractable	Extractable	Percent Rev/Acre	Variety
	Beets/100' row	Sugar %	Purity %	Tons / Acre	Sugar per Ton	Sugar per Acre		
Beta 9780	220	14.8	93.1	29.6	255.7	7565.2	114.8%	Beta 9780
Crystal M623	214	14.3	92.0	30.7	243.1	7467.0	102.3%	Crystal M623
Hilleshog 2219	201	14.3	92.9	25.3	246.7	6240.2	88.2%	Hilleshog 2219
Hilleshog 9865	198	14.4	92.0	26.8	245.1	6568.5	91.6%	Hilleshog 9865
SV 863	225	14.5	92.7	27.3	248.7	6793.7	97.6%	SV 863
SV 881	238	14.4	92.9	29.5	248.6	7340.9	105.5%	SV 881
Beta 9475*	220	14.5	93.1	30.6	251.1	7678.6	112.5%	Beta 9475*
Crystal M509*	224	14.1	92.6	32.9	242.0	7950.3	107.8%	Crystal M509*
Average	216	14.4	92.6	28.2	248.0	6995.9	100.0%	Average

Planted: April 25, 2019

Harvested: October 8, 2019

Agriculturalist: Jared Kelm

*Denotes variety shown with final data, but not included with average/statistical analysis

**Denotes an irrigated strip trial

SMBSC Variety Strip Trial - Raymond

Variety	28 DAP Stand				Extractable	Extractable	Percent Rev/Acre	Variety
	Beets/100' row	Sugar %	Purity %	Tons / Acre	Sugar per Ton	Sugar per Acre		
Beta 9780	150	16.4	91.8	28.0	280.6	7869.6	125.7%	Beta 9780
Crystal M623	120	15.2	89.6	30.0	251.6	7539.2	100.3%	Crystal M623
Hilleshog 2219	63	15.2	91.2	17.0	258.2	4378.8	61.1%	Hilleshog 2219
Hilleshog 9865	110	15.1	90.3	25.6	253.1	6468.3	87.0%	Hilleshog 9865
SV 863	99	15.0	92.0	32.0	256.9	8229.2	113.8%	SV 863
SV 881	131	15.3	92.5	29.4	263.5	7743.4	112.0%	SV 881
Crystal M380*	124	15.5	91.7	22.4	265.2	5941.7	86.9%	Crystal M380*
Average	112	15.4	91.2	27.0	260.7	7038.1	100.0%	Average

Planted: May 17, 2019

Harvested: September 28, 2019

Agriculturalist: Bill Luepke

*Denotes variety shown with final data, but not included with average/statistical analysis

SMBSC Variety Strip Trial - Maynard

Variety	28 DAP Stand				Extractable	Extractable	Percent Rev/Acre	Variety
	Beets/100' row	Sugar %	Purity %	Tons / Acre	Sugar per Ton	Sugar per Acre		
Beta 9780	175	14.8	91.7	13.6	250.9	3411.7	105.1%	Beta 9780
Crystal M623	223	14.8	90.8	13.5	248.7	3365.2	101.9%	Crystal M623
Hilleshog 2219	200	14.3	90.8	11.4	240.4	2747.2	77.4%	Hilleshog 2219
Hilleshog 9865	186	14.3	91.8	14.0	243.8	3417.0	99.3%	Hilleshog 9865
SV 863	185	14.8	92.6	15.0	255.5	3830.5	122.2%	SV 863
SV 881	206	14.5	88.3	15.0	234.9	3524.2	94.0%	SV 881
Average	196	14.6	91.0	13.8	245.7	3382.6	100.0%	Average

Planted: June 7, 2019

Harvested: September 25, 2019

Agriculturalist: Austin Neubauer

SMBSC Variety Strip Trial - Bird Island

Variety	28 DAP Stand		Purity %	Tons / Acre	Extractable	Extractable	Percent Rev/Acre	Variety
	Beets/100' row	Sugar %			Sugar per	Sugar per		
					Ton	Acre		
Beta 9780	201	15.6	91.1	19.7	263.2	5174.8	110.8%	Beta 9780
Crystal M623	190	15.4	90.4	17.2	258.0	4444.4	91.9%	Crystal M623
Hilleshog 2219	194	14.5	91.1	16.2	244.0	3953.9	73.2%	Hilleshog 2219
Hilleshog 9865	181	15.0	92.2	19.0	256.4	4875.4	99.7%	Hilleshog 9865
SV 863	191	15.3	91.6	21.0	259.9	5454.3	114.2%	SV 863
SV 881	209	15.1	91.3	21.2	255.4	5424.1	110.1%	SV 881
Average	194	15.1	91.3	19.1	256.2	4887.8	100.0%	Average

Planted: May 7, 2019

Harvested: September 28, 2019

Agriculturalist: Les Plumley