

SMBSC Agricultural Staff Variety Strip Trial - Summary

Strip Trial Means Table

<u>Variety</u>	<u>Stand Count</u>			<u>Extractable</u>		
	<u>28 DAP</u>			<u>Sugar</u>	<u>Percent of Mean</u>	
	<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 9098	212	16.0	90.8	37.1	9974.3	98.6%
Crystal M977	209	16.2	90.3	40.1	10933.9	107.8%
Crystal M002	207	16.1	90.7	38.2	10401.8	103.3%
Hilleshog 2327	201	16.0	90.1	37.0	9923.0	97.3%
SV 863	197	16.2	90.2	36.1	9758.6	96.5%
SV 894	204	16.0	90.4	36.5	9805.2	96.5%
Mean	205	16.1	90.4	37.5	10132.8	100.0
%CV	4	2.1	0.6	3.4	4.2	5.8
PR>F	0.0168	0.8484	0.4071	<0.0001	<0.0001	0.0043
LSD (0.05)	8			1.4	466.8	6.4
Reps	7	7	7	7	7	7

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

Locations: Redwood Falls, Willmar, Raymond, Maynard, Benson, and Bird Island Early and Late.

Revenue is calculated using the 2020 crop payment calculator, utilizing values released Oct. 22, 2021

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 9098	176	16.8	90.3	36.7	281.7	10347	96.4%	Beta 9098
Crystal M977	162	16.7	90.3	42.4	279.8	11861	110.0%	Crystal M977
Crystal M002	169	16.7	90.5	38.5	281.9	10864	101.2%	Crystal M002
Hilleshog 2327	168	17.0	90.2	37.0	284.8	10527	98.7%	Hilleshog 2327
SV 863	169	17.0	90.5	35.7	286.0	10220	96.1%	SV 863
SV 894	171	16.6	90.1	38.2	277.4	10586	97.6%	SV 894
Average	169	16.8	90.3	38.1	281.9	10734	100.0%	Average

Planted: April 21, 2021

Harvested: October 16, 2021

Agriculturalist: Chris Dunsmore

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 9098	200	16.6	89.1	49.4	273.9	13520	103.9%	Beta 9098
Crystal M977	196	16.5	90.5	48.9	278.8	13630	105.9%	Crystal M977
Crystal M002	188	16.1	89.1	45.4	265.7	12062	90.8%	Crystal M002
Hilleshog 2327	192	16.4	89.9	47.1	272.9	12858	98.6%	Hilleshog 2327
SV 863	176	16.7	90.2	48.2	280.9	13530	105.7%	SV 863
SV 894	186	16.2	90.0	48.7	271.1	13194	100.7%	SV 894
Beta 9780	174	16.5	89.6	43.5	274.5	11952	92.0%	Beta 9780
Beta 9986	190	16.7	90.4	46.9	280.3	13139	102.5%	Beta 9986
Average	188	16.5	89.9	47.3	274.8	12986	100.0%	Average

Planted: April 22, 2021

Harvested: October 14, 2021

Agriculturalist: Jared Kelm

*Denotes an irrigated strip trial, and data not used in combined "Variety Strip Trial Means Table"

SMBSC Variety Strip Trial - Willmar

Variety	28 DAP Stand				Extractable	Extractable	Percent Rev/Acre	Variety
	Beets/100' row	Sugar %	Purity %	Tons / Acre	Sugar per Ton	Sugar per Acre		
Beta 9098	218	15.0	91.6	39.1	255.7	9992	102.7%	Beta 9098
Crystal M977	222	14.9	92.1	43.1	254.3	10970	112.2%	Crystal M977
Crystal M002	218	15.2	92.1	42.6	259.7	11063	115.0%	Crystal M002
Hilleshog 2327	210	14.8	91.9	36.9	252.2	9303	94.6%	Hilleshog 2327
SV 863	202	14.5	90.3	37.7	241.9	9123	89.7%	SV 863
SV 894	204	13.9	91.3	38.5	233.5	9001	85.9%	SV 894
Average	212	14.7	91.5	39.7	249.6	9909	100.0%	Average

Planted: April 24, 2021

Harvested: September 24, 2021

Agriculturalist: Jared Kelm

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 9098	236	14.4	89.4	35.3	237.2	8381.2	94.7%	Beta 9098
Crystal M977	214	15.0	87.7	39.2	240.7	9446.9	108.1%	Crystal M977
Crystal M002	214	14.9	89.0	36.9	242.9	8957.2	103.3%	Crystal M002
Hilleshog 2327	214	14.4	87.8	36.7	231.1	8486.8	93.7%	Hilleshog 2327
SV 863	211	14.6	88.8	36.1	238.4	8596.5	97.5%	SV 863
SV 894	228	15.0	88.8	35.9	245.7	8823.8	102.7%	SV 894
Average	219	14.7	88.6	36.7	239.3	8782.1	100.0%	Average

Planted: April 29, 2021

Harvested: September 15, 2021

Agriculturalist: Bill Luepke

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 9098	205	17.0	90.4	31.8	286.2	9098.9	100.0%	Beta 9098
Crystal M977	210	16.7	91.3	35.9	284.9	10221.4	112.1%	Crystal M977
Crystal M002	196	17.1	91.2	33.3	291.9	9708.3	108.0%	Crystal M002
Hilleshog 2327	194	16.6	89.4	32.3	275.1	8880.2	95.2%	Hilleshog 2327
SV 863	184	16.7	90.1	30.5	280.0	8528.6	92.5%	SV 863
SV 894	211	17.0	90.6	29.2	286.6	8377.4	92.2%	SV 894
Average	200	16.9	90.5	32.1	284.1	9135.8	100.0%	Average

Planted: April 22, 2021

Harvested: October 6, 2021

Agriculturalist: Austin Neubauer

SMBSC Variety Strip Trial - Bird Island - Early

Variety	28 DAP Stand				Extractable	Extractable	Percent Rev/Acre	Variety
	Beets/100' row	Sugar %	Purity %	Tons / Acre	Sugar per Ton	Sugar per Acre		
Beta 9098	219	16.4	90.8	26.0	277.9	7230.4	105.0%	Beta 9098
Crystal M977	220	16.1	89.5	24.6	267.1	6568.1	92.9%	Crystal M977
Crystal M002	219	15.6	90.1	27.1	259.7	7028.3	97.4%	Crystal M002
Hilleshog 2327	199	15.8	90.1	26.7	264.1	7056.9	99.0%	Hilleshog 2327
SV 863	200	16.8	90.5	25.5	282.1	7204.7	105.7%	SV 863
SV 894	208	16.3	90.2	25.5	273.0	6970.2	100.0%	SV 894
Average	211	16.2	90.2	25.9	270.6	7009.8	100.0%	Average

Planted: April 22, 2021

Harvested: August 25, 2021

Agriculturalist: Les Plumley

SMBSC Variety Strip Trial - Bird Island - Late

Variety	28 DAP Stand				Extractable	Extractable	Percent Rev/Acre	Variety
	Beets/100' row	Sugar %	Purity %	Tons / Acre	Sugar per Ton	Sugar per Acre		
Beta 9098	219	16.5	89.5	41.2	274.4	11309.0	96.0%	Beta 9098
Crystal M977	220	17.1	89.7	43.7	285.4	12464.3	108.5%	Crystal M977
Crystal M002	219	16.7	89.9	40.3	278.5	11212.1	96.1%	Crystal M002
Hilleshog 2327	199	17.1	90.7	40.3	289.9	11680.7	102.7%	Hilleshog 2327
SV 863	200	17.3	89.9	38.3	288.5	11047.2	96.8%	SV 863
SV 894	208	17.2	89.8	39.5	288.1	11385.9	99.7%	SV 894
Average	211	17.0	89.9	40.5	284.1	11516.5	100.0%	Average

Planted: April 22, 2021

Harvested: October 17, 2021

Agriculturalist: Les Plumley

SMBSC Variety Strip Trial - Benson

Variety	28 DAP Stand				Extractable	Extractable	Percent Rev/Acre	Variety
	Beets/100' row	Sugar %	Purity %	Tons / Acre	Sugar per Ton	Sugar per Acre		
Beta 9098	206	16.0	91.3	49.4	272.3	13461.2	95.4%	Beta 9098
Crystal M977	210	16.9	91.8	51.8	289.8	15005.0	110.7%	Crystal M977
Crystal M002	216	16.6	92.2	48.8	286.2	13979.6	102.3%	Crystal M002
Hilleshog 2327	221	16.4	90.9	48.8	277.2	13525.9	97.0%	Hilleshog 2327
SV 863	213	16.4	90.9	49.0	277.4	13589.8	97.5%	SV 863
SV 894	200	16.3	91.7	48.4	278.6	13492.1	97.1%	SV 894
Average	211	16.4	91.5	49.4	280.3	13842.3	100.0%	Average

Planted: May 1, 2021

Harvested: November 1, 2021

Agriculturalist: Scott Thaden