

SMBSC Agricultural Staff Variety Strip Trial - Summary

Strip Trial Means Table

<u>Variety*</u>	<u>Stand Count</u>		<u>Purity %</u>	<u>Tons / Acre</u>	<u>Extractable</u>	<u>Extractable</u>	<u>Percent of Mean Revenue per Acre**</u>
	<u>28 DAP</u>	<u>Sugar %</u>			<u>Sugar per Ton</u>	<u>Sugar per Acre</u>	
Beta 9131	153	15.0	90.3	30.6	251.2	7680.6	101.1%
Beta 9369	153	15.1	90.2	31.0	252.6	7908.6	102.7%
Crystal M339	146	15.0	90.0	29.7	249.9	7420.6	95.2%
Hilleshog 2395	134	14.8	90.1	32.3	245.0	7915.4	101.0%
Mean	146.5	15.0	90.1	30.9	249.7	7731.3	100.0
%CV	12.3	2.1	0.4	9.0	2.3	10.2	13.5
PR>F	0.1916	0.1575	0.3304	0.3639	0.1123	0.6113	0.7432
LSD (0.05)	ns	ns	ns	ns	ns	ns	ns
Reps***	7	7	7	7	7	7	7

* Varieties are organized in alphabetical order. The top and bottom performers measured by 'Percent of Mean Revenue per Acre' vary by location, indicating an environmental effect.

** Revenue is calculated using the 2024 crop payment calculator, utilizing values released Oct. 23, 2025

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

Locations: Redwood Falls, Renville, Hector, Appleton, Murdock, Cosmos, and Brooten

SMBSC Variety Strip Trial - Redwood Falls

28 DAP Stand					Extractable Sugar per	Extractable Sugar per	Percent Rev/Acre	Variety
Variety	Beets/100' row	Sugar %	Purity %	Tons / Acre	Ton	Acre		
Beta 9131	180	15.7	90.4	43.4	262.7	11397	105%	Beta 9131
Beta 9369	185	16.0	91.0	43.6	270.3	11779	113%	Beta 9369
Crystal M339	155	15.8	90.6	41.0	265.3	10866	102%	Crystal M339
Hilleshog 2395	158	15.5	89.8	35.0	257.1	8987	80%	Hilleshog 2395
Beta 9284*	176	15.6	90.3	41.2	260.3	10729	97%	Beta 9284*
Average	170	15.7	90.5	40.7	263.8	10757	100.0%	Average

Planted: April 16, 2025

Harvested: October 21, 2025

Agriculturalist: Andrew Docter

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

SMBSC Variety Strip Trial - Renville

28 DAP Stand					Extractable Sugar per	Extractable Sugar per	Percent Rev/Acre	Variety
Variety	Beets/100' row	Sugar %	Purity %	Tons / Acre	Ton	Acre		
Beta 9131	156	14.4	91.1	23.9	242.9	5803	121.0%	Beta 9131
Beta 9369	114	13.3	90.3	19.9	220.8	4403	73.9%	Beta 9369
Crystal M339	131	14.4	89.7	20.2	236.6	4771	94.3%	Crystal M339
Hilleshog 2395	124	14.2	90.4	24.0	235.8	5654	110.9%	Hilleshog 2395
Crystal M106*	151	14.3	90.4	23.8	237.8	5668	113.1%	Crystal M106*
Average	131	14.1	90.4	22.0	234.0	5158	100.0%	Average

Planted: April 22, 2025

Harvested: October 2, 2025

Agriculturalist: Chris Dunsmore

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

SMBSC Variety Strip Trial - Appleton**

28 DAP Stand					Extractable Sugar per	Extractable Sugar per	Percent Rev/Acre	Variety
Variety	Beets/100' row	Sugar %	Purity %	Tons / Acre	Ton	Acre		
Beta 9131	205	14.9	89.4	28.0	245.6	6870	100%	Beta 9131
Beta 9369	205	15.2	88.8	28.5	248.8	7100	106%	Beta 9369
Crystal M339	149	15.0	89.4	28.2	247.7	6975	103%	Crystal M339
Hilleshog 2395	136	14.5	89.2	28.1	237.1	6672	91%	Hilleshog 2395
Beta 9284*	198	15.2	89.5	30.5	250.7	7658	116%	Beta 9284*
Crystal M977*	206	14.7	89.4	28.2	242.3	6833	97%	Crystal M977*
Average	174	14.9	89.2	28.2	244.8	6904	100.0%	Average

Planted: April 18, 2025

Harvested: September 8, 2025

Agriculturalist: Gavin Johnson

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

**Denotes an irrigated strip trial

SMBSC Variety Strip Trial - Cosmos

28 DAP Stand					Extractable Sugar per	Extractable Sugar per	Percent Rev/Acre	Variety
Variety	Beets/100' row	Sugar %	Purity %	Tons / Acre	Ton	Acre		
Beta 9131	140	15.6	90.3	33.8	261.5	8845	93%	Beta 9131
Beta 9369	165	16.2	90.4	37.8	271.6	10270	115%	Beta 9369
Crystal M339	163	15.7	90.2	35.0	263.1	9205	98%	Crystal M339
Hilleshog 2395	153	14.9	90.4	39.3	248.0	9752	94%	Hilleshog 2395
Average	155	15.6	90.3	36.5	261.0	9518	100.0%	Average

Planted: April 23, 2025

Harvested: October 10, 2025

Agriculturalist: Dylan Swanson

SMBSC Variety Strip Trial - Brooten**

28 DAP Stand					Extractable Sugar per	Extractable Sugar per	Percent Rev/Acre	Variety
Variety	Beets/100' row	Sugar %	Purity %	Tons / Acre	Ton	Acre		
Beta 9131	149	15.4	90.5	22.7	258.4	5864	92%	Beta 9131
Beta 9369	148	15.8	90.6	25.3	266.6	6750	112%	Beta 9369
Crystal M339	156	15.4	90.4	19.6	257.5	5055	79%	Crystal M339
Hilleshog 2395	161	15.2	90.7	29.5	255.5	7540	117%	Hilleshog 2395
Beta 9284*	164	15.6	90.3	22.5	262.0	5896	95%	Beta 9284*
Crystal M977*	169	15.1	90.4	23.4	252.7	5917	90%	Crystal M977*
Average	153	15.5	90.6	24.3	259.5	6302	100.0%	Average

Planted: April 26, 2025

Harvested: October 17, 2025

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 - Hector

28 DAP Stand					Extractable Sugar per	Extractable Sugar per	Percent Rev/Acre	Variety
Variety	Beets/100' row	Sugar %	Purity %	Tons / Acre	Ton	Acre		
Beta 9131	128	15.6	90.3	25.6	261.2	6683	94%	Beta 9131
Beta 9369	124	15.7	90.0	26.1	262.3	6849	97%	Beta 9369
Crystal M339	148	15.5	89.9	27.8	258.1	7165	99%	Crystal M339
Hilleshog 2395	106	15.4	90.2	31.7	257.2	8140	111%	Hilleshog 2395
Ses 863*	113	15.5	90.5	28.6	259.5	7431	103%	Ses 863*
Average	126	15.6	90.1	27.8	259.7	7209	100.0%	Average

Planted: April 21, 2025

Harvested: October 20, 2025

Agriculturalist: Ryan Kuester

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

SMBSC Variety Strip Trial - Murdock

28 DAP Stand					Extractable Sugar per	Extractable Sugar per	Percent Rev/Acre	Variety
Variety	Beets/100' row	Sugar %	Purity %	Tons / Acre	Ton	Acre		
Beta 9131	114	13.7	90.1	36.7	226.1	8302	102%	Beta 9131
Beta 9369	128	13.8	90.0	36.0	227.8	8209	103%	Beta 9369
Crystal M339	121	13.5	89.6	35.8	221.0	7907	92%	Crystal M339
Hilleshog 2395	99	13.6	90.0	38.7	224.0	8663	104%	Hilleshog 2395
Ses 863*	83	12.7	89.7	31.3	207.7	6507	63%	Ses 863*
Average	115	13.6	89.9	36.8	224.7	8270	100.0%	Average

Planted: April 26, 2025

Harvested: October 9, 2025

Agriculturalist: William Luepke

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