SMBSC Agricultural Staff Variety Strip Trial - Summary

Strip Trial Means Table

Variety*	Stand Per 100 ft of Row	Sugar Percent	Purity Percent	Tons Per Acre	Extractable Sugar per Ton	Extractable Sugar per Acre
Beta 9369	173	15.4	89.3	38.1	253.0	9704.3
Beta 9497	179	14.9	89.4	37.4	245.7	9257.1
Crystal M432	182	15.4	89.5	37.8	254.9	9699.2
Crystal M445	174	15.3	89.0	39.9	250.7	10061.3
Hilleshog 2395	164	14.2	89.0	35.7	232.2	8356.6
Mean	174.6	15.0	89.3	37.8	247.3	9415.7
%CV	5.9	2.1	0.3	6.9	2.5	7.5
PR>F	0.0218	<.0001	0.0032	0.0552	<.0001	0.0006
LSD (0.05)	10.5	0.3	0.3	ns	6.4	727.0
Reps***	8	8	8	8	8	8

* Varieties are organized in alphabetical order.
** Combined data from 8 locations with each location considered a replicate.
Locations: Redwood Falls, Appleton, Raymond, Belgrade, Lake Lillian, Gluek, Renville, and Murdock

SMBSC Agricultural Staff Variety Strip Trial Results

Redwood Falls

Variety	Stand/100 ft of Row	Sugar Percent	Purity Percent	Tons/Acre	Extractable Sugar/Ton	Extractable Sugar/Acre
Beta 9369	181	16.1	88.3	38.9	260.9	10153.9
Beta 9497	184	15.2	88.3	37.6	246.0	9259.2
Crystal M432	195	15.6	88.6	38.4	254.9	9785.7
Crystal M445	175	15.4	88.3	39.6	250.5	9923.6
Hilleshog 2395	159	14.7	88.1	36.5	237.3	8665.6
Crystal M977*	190	15.3	88.7	40.5	249.6	10118.8
Average	**178.8**	**15.4**	**88.3**	**38.2**	**249.9**	**9557.6**

Agriculturist: Andrew Docter Planted: 15-Apr Harvested: 9-Sep
Planting Population: 58,500
* Variety shown with final data but not included with average/statistical analysis

Murdock

Variety	Stand/100 ft of Row	Sugar Percent	Purity Percent	Tons/Acre	Extractable Sugar/Ton	Extractable Sugar/Acre
Beta 9369	166	15.2	90.2	43.0	253.4	10891.7
Beta 9497	161	14.8	90.3	42.5	246.5	10463.4
Crystal M432	187	15.1	90.2	40.6	252.3	10231.5
Crystal M445	159	14.6	89.4	46.0	240.3	11057.5
Hilleshog 2395	146	13.9	90.1	44.8	229.7	10290.6
SV 852*	147	14.0	90.3	39.5	232.0	9160.4
Average	**163.8**	**14.7**	**90.1**	**43.4**	**244.4**	**10587.0**

Agriculturist: Nolan Zachman Planted: 21-Apr Harvested: 14-Oct
Planting Population: 60,000
* Variety shown with final data but not included with average/statistical analysis

Appleton**

Variety	Stand/100 ft of Row	Sugar Percent	Purity Percent	Tons/Acre	Extractable Sugar/Ton	Extractable Sugar/Acre
Beta 9369	200	15.4	88.2	31.5	249.0	7843.1
Beta 9497	192	14.8	87.9	33.1	238.2	7878.8
Crystal M432	188	15.2	88.1	31.7	245.3	7773.5
Crystal M445	183	15.7	87.9	32.9	253.6	8352.8
Hilleshog 2395	182	14.0	87.4	38.1	223.0	8505.8
Beta 9284*	180	14.9	87.5	34.0	237.4	8077.9
Average	**189.0**	**15.0**	**87.9**	**33.5**	**241.8**	**8070.8**

Agriculturist: Gavin Johnson Planted: 20-Apr Harvested: 9-Sep
Planting Population: 59,000
* Variety shown with final data but not included with average/statistical analysis
** Irrigated strip trial

Raymond

Variety	Stand/100 ft of Row	Sugar Percent	Purity Percent	Tons/Acre	Extractable Sugar/Ton	Extractable Sugar/Acre
Beta 9369	165	15.9	90.4	37.7	265.9	10017.3
Beta 9497	168	15.8	90.9	37.9	266.0	10078.2
Crystal M432	185	16.0	90.5	39.8	268.0	10665.3
Crystal M445	160	15.6	90.0	39.6	260.9	10317.3
Hilleshog 2395	147	15.2	90.3	37.9	254.2	9624.0
Average	**165.0**	**15.7**	**90.4**	**38.6**	**263.0**	**10140.4**

Agriculturist: Jared Kelm Planted: 22-Apr Harvested: 19-Oct
Planting Population: 60,000

Belgrade**

Variety	Stand/100 ft of Row	Sugar Percent	Purity Percent	Tons/Acre	Extractable Sugar/Ton	Extractable Sugar/Acre
Beta 9369	147	14.5	89.7	36.6	239.5	8757.8
Beta 9497	177	14.2	90.1	36.1	235.9	8525.4
Crystal M432	153	14.9	90.2	35.1	248.7	8738.4
Crystal M445	157	15.2	90.0	40.1	252.6	10118.8
Hilleshog 2395	162	13.7	89.7	26.9	224.7	6051.4
Crystal M106*	148	14.7	89.9	39.3	244.1	9593.4
Average	**159.0**	**14.5**	**89.9**	**35.0**	**240.3**	**8438.4**

Agriculturist: Jared Kelm Planted: 24-Apr Harvested: 22-Oct
Planting Population: 61,000
* Variety shown with final data but not included with average/statistical analysis
** Irrigated strip trial

Lake Lillian

Variety	Stand/100 ft of Row	Sugar Percent	Purity Percent	Tons/Acre	Extractable Sugar/Ton	Extractable Sugar/Acre
Beta 9369	176	15.7	89.3	43.7	258.8	11306.6
Beta 9497	194	15.4	89.2	42.3	253.2	10717.0
Crystal M432	192	16.0	88.9	42.8	262.4	11219.8
Crystal M445	194	16.2	89.1	45.0	267.2	12017.7
Hilleshog 2395	186	14.8	88.9	39.7	241.8	9606.3
Average	**188.4**	**15.6**	**89.1**	**42.7**	**256.7**	**10973.5**

Agriculturist: Dylan Swanson Planted: 4-May Harvested: 26-Oct
Planting Population: 57,000

Gluek

Variety	Stand/100 ft of Row	Sugar Percent	Purity Percent	Tons/Acre	Extractable Sugar/Ton	Extractable Sugar/Acre
Beta 9369	192	16.1	90.1	40.9	268.8	10993.0
Beta 9497	176	15.6	90.2	37.1	260.5	9653.4
Crystal M432	190	16.2	90.4	37.7	272.7	10282.7
Crystal M445	195	16.0	89.3	41.0	264.4	10830.6
Hilleshog 2395	193	14.0	88.9	30.0	228.5	6855.6
Average	**189.2**	**15.6**	**89.8**	**37.3**	**259.0**	**9723.1**

Agriculturist: Charles Tvedt Planted: 24-Apr Harvested: 20-Oct
Planting Population: 60,000

Renville

Variety	Stand/100 ft of Row	Sugar Percent	Purity Percent	Tons/Acre	Extractable Sugar/Ton	Extractable Sugar/Acre
Beta 9369	160	14.1	88.4	32.5	227.5	7671.3
Beta 9497	176	13.6	88.4	32.9	219.3	7481.0
Crystal M432	167	14.4	89.3	36.4	235.2	8896.7
Crystal M445	172	13.5	88.1	35.1	216.0	7871.7
Hilleshog 2395	140	13.5	88.6	32.0	218.4	7253.7
Beta 9131*	162	13.7	88.6	35.3	220.6	8087.8
Beta 9284*	171	14.2	88.6	35.4	229.4	8417.9
Beta 9533*	181	14.3	88.9	34.0	233.1	8222.8
Beta 9599*	149	14.4	89.2	36.3	235.2	8871.3
Beta 9626*	181	13.9	88.5	34.7	225.1	8117.3
Beta 9687*	171	14.3	88.6	35.5	231.4	8526.6
Beta 9692*	163	14.8	88.7	35.4	240.4	8829.8
Average	**163.0**	**13.8**	**88.5**	**33.8**	**223.3**	**7834.9**

Agriculturist: Jordan Voorhees Planted: 20-Apr Harvested: 1-Oct
Planting Population: 58,000
* Variety shown with final data but not included with average/statistical analysis