

2012 Variety Trial Results

growing the best sugarbeets



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The council will provide direction for the Michigan-Ontario sugarbeet researchers and assemble and distribute research/agronomy information.

Cooperative educational efforts will be conducted with the goal of improving productivity and profitability for all stakeholders.



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Approval of Seed Varieties for the 2013 Crop

Fully Approved Varieties	
Unlimited Quantities	
HM-27RR	HM-133RR
SX-1291RR	HM-173RR
HM-131RR	SX-1281RR
HM-28RR	C-RR086
C-RR059	B-10RR34
C-RR074NT	

Limited Approved Varieties	
Quantities limited to 5% of acres	
SX-1215RR	SX-1212 RR
SX-1211N RR	

Specialty Approved Varieties	
Unlimited Quantities	
Variety	Specialty
B-18RR4N	Nematode
B-17RR32	High Sugar
C-RR827	High Sugar
C-RR824	High Sugar
B-19RR1N	Nematode

* Approved to sell through 2014

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Summary of Data





Official Variety Trials - Approved Varieties for 2013

2011 - 2012 Data

Variety	Approval Status	\$/Acre	RWSA	RWST	T/A	% Sugar	% C-JP	Emerge	Cerc	Root Aphid	Rhizoc	Aph
B-19RR1N	Special Approval	\$2,252	9563	268	35.5	18.0	95.2	Good +	Poor	Good -	Poor	Good +
SX-1212RR	Limited Approval	\$2,244	9543	267	35.7	18.0	95.0	Fair -	Fair +	Poor +	Poor	Fair
B-18RR4N	Special Approval	\$2,240	9522	269	35.4	18.1	95.0	Good -	Poor +	Good -	Poor	Good +
C-RR824	Special Approval	\$2,209	9405	261	36.0	17.8	94.6	Good	Poor	Good	Poor	Poor
C-RR059	Full Approval	\$2,193	9356	273	34.1	18.5	94.7	Good +	Fair	Good	Good -	Fair
B-17RR32	Special Approval	\$2,187	9241	259	35.6	17.7	94.4	Fair	Poor	Good	Poor	Good
C-RR074NT	Full Approval	\$2,156	9130	269	33.9	18.3	94.6	Fair +	Poor +	Good	Poor	Fair
HM-173RR	Full Approval	\$2,078	8754	259	33.8	17.8	94.3	Good	Good -	Good -	Good -	Fair
HM-28RR	Full Approval	\$2,072	8756	259	33.6	17.6	94.8	Good +	Fair +	Fair	Good -	Poor
SX-1291RR	Full Approval	\$2,071	8799	269	32.6	18.3	94.6	Good	Good	Good -	Fair +	Good
SX-1211N RR	Limited Approval	\$2,064	8712	266	32.7	18.0	94.8	Good -	Good -	Fair	Poor	Good
SX-1281RR	Full Approval	\$2,054	8711	264	32.8	18.1	94.4	Fair	Good	Good -	Good -	Good
SX-1215RR	Limited Approval	\$2,046	8709	267	32.6	18.0	95.0	Fair	Good -	Poor	Poor	Fair
HM-133RR	Full Approval	\$2,037	8654	272	31.6	18.6	94.4	Fair +	Good	Good +	Good	Good
B-10RR34	Full Approval	\$2,027	8632	272	31.7	18.3	95.0	Fair +	Good -	Good -	Good -	Good
HM-131RR	Full Approval	\$2,006	8515	272	31.2	18.6	94.4	Poor	Good	Good +	Good	Poor
HM-27RR	Full Approval	\$1,935	8212	258	31.6	17.5	94.9	Fair	Fair +	Poor	Good	Good
Average		\$2,110	8954	266	33.6	18.1	94.7					
LSD 5 %		166.9	687.6	8.8	2.4	0.6	0.3					
CV %		3.8	3.7	1.6	3.5	1.5	0.1					

\$/Acre: Gross dollars per acre assuming \$65 payment.

C-RR827 was not tested in 2012 but can be sold. Excellent yield and quality, poor Cercospora and Rhizoctonia.



Approved Varieties for 2013

2011 - 2012 Data

Variety	Approval Status	\$/Acre	All Values are % of Check					Comments
			RWSA	RWST	Cerc	Rhizoc	Root Aphid	
B-19RR1N	Special Approval	\$2,252	108.6	102.1	123.3	110.8	103.4	Poor Rhizoc / Poor Cercospora
SX-1212RR	Limited Approval	\$2,244	108.6	101.7	102.6	109.7	209.6	Poor Rhizoc / Fair+ Cercospora
B-18RR4N	Special Approval	\$2,240	108.2	102.3	118.4	109.7	83.4	Poor Rhizoc / Poor+ Cercospora
C-RR824	Special Approval	\$2,209	106.7	99.5	129.1	107.5	67.1	Poor Rhizoc / Poor Cercospora
C-RR059	Full Approval	\$2,193	106.1	103.9	111.2	92.3	39.9	Good- Rhizoc / Fair Cercospora
B-17RR32	Special Approval	\$2,187	105.1	98.8	125.9	107.0	55.0	Poor Rhizoc / Poor Cercospora
C-RR074NT	Full Approval	\$2,156	103.5	102.4	116.1	116.3	67.5	Poor Rhizoc / Poor+ Cercospora
HM-173RR	Full Approval	\$2,078	99.5	98.6	92.8	91.8	102.9	Good- Rhizoc / Good- Cercospora
HM-28RR	Full Approval	\$2,072	99.4	98.7	98.1	94.4	154.3	Good- Rhizoc / Fair+ Cercospora
SX-1291RR	Full Approval	\$2,071	99.9	102.5	85.6	96.8	102.6	Fair+ Rhizoc / Good Cercospora
SX-1211N RR	Limited Approval	\$2,064	99.2	101.4	93.6	105.2	160.6	Poor Rhizoc / Good- Cercospora
SX-1281RR	Full Approval	\$2,054	98.8	100.7	85.0	92.7	92.9	Good- Rhizoc / Good Cercospora
SX-1215RR	Limited Approval	\$2,046	99.6	101.7	91.4	110.4	326.1	Poor Rhizoc / Good- Cercospora
HM-133RR	Full Approval	\$2,037	98.1	103.7	82.0	87.0	16.5	Good Rhizoc / Good Cercospora
B-10RR34	Full Approval	\$2,027	98.3	103.7	91.5	92.5	87.0	Good- Rhizoc / Good- Cercospora
HM-131RR	Full Approval	\$2,006	96.8	103.7	81.4	87.2	19.0	Good Rhizoc / Good Cercospora
HM-27RR	Full Approval	\$1,935	93.4	98.5	96.2	86.8	255.7	Good Rhizoc / Fair+ Cercospora

\$/Acre: Gross dollars per acre assuming \$65 payment.

A lower value is better for Cercospora, Rhizoctonia and Root Aphid.

C-RR827 was not tested in 2012 but can be sold. Excellent yield and quality, poor Cercospora and Rhizoctonia.

Rhizoctonia & Cercospora

Varieties for 2013 - Average of 2 Years

Rhizoctonia

Variety	All Values are % of Check				Comments
	Rhizoc	RWSA	RWST	Cerc	
HM-27RR	86.8	93.4	98.5	96.2	Weak on Root Aphid
HM-133RR	87.0	98.1	103.7	82.0	Well balanced variety
HM-131RR	87.2	96.8	103.7	81.5	Well balanced variety
HM-173RR	91.8	99.5	98.6	92.8	Well balanced variety
C-RR059	92.3	106.1	103.9	111.2	High Yield / Fair Cercospora
B-10RR34	92.5	98.3	103.7	91.5	Well balanced variety
SX-1281RR	92.7	98.8	100.7	85.0	Well balanced variety
HM-28RR	94.4	99.4	98.7	98.1	Well balanced variety
SX-1291RR	96.8	99.9	102.5	85.6	Well balanced variety

Cercospora

Variety	All Values are % of Check				Comments
	Cerc	RWSA	RWST	Rhizoc	
HM-131RR	81.5	96.8	103.7	87.2	Well balanced variety
HM-133RR	82.0	98.1	103.7	87.0	Well balanced variety
SX-1281RR	85.0	98.8	100.7	92.7	Well balanced variety
SX-1291RR	85.6	99.9	102.5	96.8	Well balanced variety
SX-1215RR	91.4	99.6	101.7	110.4	Weak Root Aphid
B-10RR34	91.5	98.3	103.7	92.5	Well balanced variety
HM-173RR	92.8	99.5	98.6	91.8	Well balanced variety
SX-1211NRR	93.5	99.2	101.4	105.2	Nematode variety
HM-27RR	96.2	93.4	98.5	86.8	Weak Root Aphid
HM-28RR	98.1	99.4	98.7	94.4	Well balanced variety

Note: A lower value is better for Cercospora and Rhizoctonia.



High Sugar & Cyst Nematode

Varieties for 2013 - Average of 2 Years

High Sugar

Varieties	All Values are % of Check				Comments
	RWSA	RWST	Rhizoc	Cerc	
C-RR059	106.1	103.9	92.3	111.2	Good- Rhizoc / Fair Cercospora
B-10RR34	98.3	103.7	92.5	91.5	Well balanced variety
HM-133RR	98.1	103.7	87.0	82.0	Well balanced variety
HM-131RR	96.8	103.7	87.2	81.5	Well balanced variety
SX-1291RR	99.9	102.5	96.8	85.6	Well balanced variety
C-RR074NT	103.5	102.4	116.3	116.1	Nematode variety, poor Rhizoc and poor+ Cerc
B-18RR4N	108.2	102.3	109.7	118.4	Nematode variety, poor Cerc and poor+ Rhizoc
B-19RR1N	108.6	102.1	110.8	123.3	Nematode variety, poor Cerc and Rhizoc

C-RR827 was not tested in 2012 but can be sold. Excellent high sugar and yield, poor Cercospora and Rhizoctonia.

Nematodes

Varieties	All Values are % of Check					Comments
	Nem	RWSA	RWST	Rhizoc	Cerc	
B-18RR4N	66	108.2	102.3	109.7	118.4	Weak Cercospora and Rhizoc
C-RR074NT	69	103.5	102.4	116.3	116.1	Weak Cercospora and Rhizoc
B-19RR1N	70	108.6	102.1	110.8	123.3	Weak Cercospora and Rhizoc
SX-1211N RR	86	99.2	101.4	105.2	93.5	Good- Cerc and poor Rhizoc

Note: A lower is better for Nematode, Cercospora and Rhizoctonia.



Variety Approval "Points" System

A Variety Evaluation Tool - 2 Year Average

The Point System summary page is a great variety evaluation tool. On one page, varieties can be compared, and all factors can be viewed. For all factors, a larger number is better. Just look for the larger numbers to find the best varieties for a certain trait. The good and poor qualities of each variety can also be found. Varieties accumulate points based on RWSA, RWST, Cercospora, Rhizoctonia, Root Aphid, Rhizomania and Emergence levels.

Variety	RWSA	RWST Actual	3X RWST Variance	Higher Points are Better					Total Points	Points %Check
				Cerc	Rhizoc	R Aph	Rzm	Emerg		
C-RR059	106.1	103.9	11.7	0.5	8.0	5.0	2.0	1.5	134.8	120.8
HM-133RR	98.1	103.7	11.1	7.0	8.0	5.0	1.8	0.0	131.0	117.4
SX-1291RR	99.9	102.5	7.5	5.5	7.8	3.5	2.5	2.0	128.7	115.3
B-10RR34	98.3	103.7	11.1	5.0	8.0	4.0	2.0	-0.5	127.9	114.6
HM-131RR	96.8	103.7	11.1	7.0	8.5	5.0	2.0	-5.0	125.4	112.4
SX-1212 RR	108.6	101.7	5.1	2.5	3.5	1.5	2.5	-1.0	122.7	110.0
SX-1281RR	98.8	100.7	2.1	6.0	6.8	3.5	2.3	-1.0	118.4	106.1
B-18RR4N	108.2	102.3	6.9	-8.5	4.0	4.0	1.3	0.5	116.4	104.3
SX-1211N RR	99.2	101.4	4.2	4.5	4.5	2.5	1.8	-0.5	116.2	104.1
HM-28RR	99.4	98.7	-3.9	3.5	7.5	3.0	2.5	3.5	115.5	103.5
HM-173RR	99.5	98.6	-4.2	4.5	7.8	3.5	2.0	2.0	115.1	103.1
SX-1215 RR	99.6	101.7	5.1	5.0	4.3	0.0	2.3	-2.0	114.2	102.4
C-RR074NT	103.5	102.4	7.2	-7.5	2.8	4.0	1.5	-1.0	110.5	99.0
B-19RR1N	108.6	102.1	6.3	-16.0	4.0	3.5	2.0	2.0	110.4	98.9
HM-27RR	93.4	98.5	-4.5	4.0	9.3	0.5	2.5	-2.0	103.2	92.4
C-RR824	106.7	99.5	-1.5	-18.0	4.0	4.0	2.5	1.0	98.7	88.5
B-17RR32	105.1	98.8	-3.6	-16.0	4.0	4.5	2.5	-2.0	94.5	84.7

Note: % check (B-32, HM-28, SX-1260, HM-50) = 100 X 99.19 (approval level)



2012 Variety Trial Averages

Averages of 5 Locations

Farms: Clay Crumbaugh (Breckenridge) Wasmiller Farms (Saginaw)
 Shaffner Farms (Freeland) Yoder Farms (Pigeon)
 Wadsworth Farms (Sandusky)

Variety	\$/Acre	RWSA	RWST	T/A	% Sugar	% CJP
C-RR059	\$2,589	11607	298	39.0	19.8	95.6
B-18RR4N	\$2,534	11362	300	37.9	19.8	95.7
B-19RR1N	\$2,503	11227	294	38.2	19.5	95.8
C-RR074NT	\$2,463	11082	297	37.2	19.8	95.4
C-RR824	\$2,423	10860	281	38.6	18.9	95.3
B-10RR34	\$2,428	10860	293	37.2	19.4	95.7
HM-173RR	\$2,414	10799	286	37.9	19.1	95.3
C-RR086	\$2,401	10751	293	36.8	19.6	95.3
HM-28RR	\$2,389	10684	285	37.7	18.9	95.8
SX-1291RR	\$2,340	10463	294	35.7	19.5	95.6
SX-1281RR	\$2,337	10457	294	35.6	19.6	95.5
HM-131RR	\$2,152	9650	286	33.7	19.4	94.8
Average	\$2,414	10817	292	37.1	19.4	95.5
LSD 5%	—	601	7	1.5	0.4	0.3
CV %	—	4	2	3.3	1.7	0.2

\$/Acre: Gross dollars per acre assuming a \$65 payment.

Bold: Results are not statistically different from top-ranking variety in each column.

Comments: Sugarbeet Cyst Nematodes were identified in the Shaffner, Wadsworth, and Yoder Trials. The trials all had very good emergence. The Fox Trial in Ontario was not included in the averages because of uneven emergence.



Plant to Stand Trial

Average of 4 Locations - 2012

Trial Quality: Good
Locations: Breckenridge, Pigeon, Sandusky, and Harbor Beach
Planted: March 29 to April 24
Harvested: Sept 25 to Oct 29

Rhizoc Control: Quadris T-band and 6-8 lf, Good Control
Cerc Control: 4 Applications, Good Control

Plot Size: 4 rows X 38 ft
Reps: 5 or 6
Row Spacing: 22 inch
Seeding Rate: 4.4 inch spacing

Variety	\$/Acre	RWSA	RWST		T/A		% Sugar		% CJP		Beets/100 ft	
			Actual	Rank	Actual	Rank	Actual	Rank	Actual	Rank	Actual	Rank
B-18RR4N	\$2,192	9321	286	2	32.5	1	19.0	2	95.7	1	160.1	3
B-19RR1N	\$2,136	9148	280	5	32.3	2	18.6	6	95.7	3	158.8	4
C-RR059	\$2,130	9094	288	1	31.4	4	19.2	1	95.3	6	158.3	5
C-RR074NT	\$2,092	8896	282	4	31.4	5	18.9	3	95.1	7	161.6	2
B-17RR32	\$1,984	8466	270	12	31.3	6	18.3	11	94.7	11	149.7	8
HM-28RR	\$1,984	8430	275	7	30.7	7	18.4	10	95.3	5	194.3	1
C-RR824	\$1,983	8442	267	13	31.5	3	18.0	13	95.0	8	147.0	9
B-10RR34	\$1,945	8326	284	3	29.0	9	18.9	5	95.7	2	158.3	6
HM-27RR	\$1,849	7909	271	11	29.0	10	18.2	12	95.4	4	155.9	7
HM-133RR	\$1,845	7857	279	6	28.2	12	18.9	4	94.6	13	140.2	11
SX-1281RR	\$1,843	7858	272	9	28.8	11	18.5	8	94.6	12	128.8	13
HM-173RR	\$1,833	7868	266	14	29.4	8	18.0	14	94.8	10	142.6	10
SX-1291RR	\$1,756	7484	272	8	27.4	13	18.4	9	94.8	9	132.0	12
HM-131RR	\$1,679	7118	271	10	26.2	14	18.5	7	94.4	14	99.0	14
Average	\$1,947	8301	276		29.9		18.6		95.1		149.1	
LSD 5%	164.9	716.0	8.4		2.3		0.5		0.5		21.2	
CV %	6.0	6.1	2.1		5.4		1.7		0.3		10.0	

\$/Acre: Gross dollars per acre assuming a \$65 payment.

Bold: Results are not statistically different from top-ranking variety in each column.

Comments: The purpose of the Plant to Stand trials is to evaluate approved sugarbeet varieties using management practices that we recommend to growers. The trials are space planted and not thinned. Fertility levels, weed control, insect control and other cultural practices are similar to what a good grower would do. By contrast, our OVT trials receive higher maintenance than growers fields and the beets are planted thick and thinned.



Emergence - Official Variety Trials

Average of 2 years - 2011-2012

Trial Quality: Very Good
Locations: Total of 4 Locations
Plot Size: 2 rows X 38 ft
Reps: 8
Seeding Rate: 2011: 100 seeds planted per plot
2012: 75 seeds planted per plot

Variety	% Emergence		
	Avg 2 Years	2011	2012
HM-28RR	60.4	64.9	56.0
C-RR059	59.1	57.0	61.2
B-19RR1N	58.8	59.8	57.9
SX-1291RR	57.6	61.7	53.6
HM-173RR	56.9	64.0	49.8
C-RR824	56.6	58.6	54.6
B-18RR4N	56.1	55.2	56.9
SX-1211N RR	55.1	55.7	54.5
C-RR074NT	54.6	49.5	59.8
B-10RR34	54.5	53.0	55.9
HM-133RR	53.7	55.9	51.6
HM-27RR	52.3	49.1	55.5
SX-1215RR	51.6	50.6	52.6
SX-1281RR	50.6	54.7	46.5
B-17RR32	50.4	50.9	49.8
SX-1212RR	47.9	54.3	41.5
HM-131RR	40.5	48.5	32.4
Average	53.9	55.5	52.3

Comments: This trial gives very reliable results because a counted number of seeds are planted in each row. We do this to avoid any planter differences in seed drop of doubles and empty cells.

Early Counts

Trial	Crumbaugh	Wadsworth	Wasmiller	Yoder	Shaffner	Average
Plant Date	3/21/12	3/23/12	3/27/12	3/30/12	4/9/12	
Count Days	14 Days	18 Days	21 Days	17 Days	17 Days	
C-RR074NT	108	154	190	27	139	124
C-RR086	114	147	146	38	135	116
C-RR059	93	142	199	19	123	115
C-RR824	101	150	171	36	100	112
SX-1291RR	110	132	163	14	114	107
B-18RR4N	60	109	171	15	116	94
HM-173RR	68	113	150	22	103	91
SX-1281RR	102	116	127	9	92	89
B-10RR34	75	73	176	10	109	89
HM-131RR	53	102	91	6	47	60
HM-28RR	27	21	141	3	86	56
B-19RR1N	19	35	86	7	58	41
Average	78	108	151	17	102	91
LSD 5%	28	30	35	16	29	26
CV %	21	16	14	55	17	23

Final Counts

Trial	Crumbaugh	Wadsworth	Wasmiller	Yoder	Shaffner	Average
Count Days	33 Days	33 Days	36 Days	38 Days	29 Days	
C-RR074NT	262	279	251	195	242	246
B-10RR34	240	258	250	179	220	229
C-RR059	245	260	229	179	223	227
HM-28RR	213	267	237	176	224	223
B-18RR4N	237	256	233	180	211	223
C-RR824	199	265	214	169	197	209
SX-1291RR	213	249	201	153	211	206
HM-173RR	217	255	198	153	204	205
B-19RR1N	208	244	209	168	197	205
SX-1281RR	222	255	186	146	191	200
C-RR086	219	232	181	154	182	194
HM-131RR	183	201	115	80	143	144
Average	222	252	209	161	204	209
LSD 5%	39	16	21	11	15	15
CV %	10	4	6	4	4	6

August Counts of Dead Beets in 1200 Foot of Row

Variety	Crumbaugh	Fox	Shaffner	Wadsworth	Wasmiller	Yoder	Average
HM-131RR	44	0	4	0	0	2	9
HM-173RR	50	2	0	1	1	1	9
SX-1291RR	55	0	1	2	2	1	10
HM-28RR	64	4	7	4	1	0	13
C-RR086	78	1	6	5	6	0	16
C-RR059	81	1	17	1	1	0	17
SX-1281RR	95	2	12	3	4	0	19
B-10RR34	93	2	19	3	0	0	20
C-RR824	213	20	53	12	18	1	53
B-18RR4N	183	28	49	12	54	4	55
B-19RR1N	229	15	39	22	34	0	57
C-RR074NT	366	50	56	16	76	3	95
Average	129	11	22	7	17	1	31
LSD 5%	107	19	38	8	NS	NS	42
CV %	49	105	103	70	217	195	118

Averages of the 3 Trials With the Highest Levels of Rhizoctonia

Variety	Crumbaugh	Shaffner	Wasmiller	Average
HM-131RR	44	4	0	16
HM-173RR	50	0	1	17
SX-1291RR	55	1	2	19
HM-28RR	64	7	1	24
C-RR086	78	6	6	30
C-RR059	81	17	1	33
SX-1281RR	95	12	4	37
B-10RR34	93	19	0	37
C-RR824	213	53	18	95
B-18RR4N	183	49	54	96
B-19RR1N	229	39	34	101
C-RR074NT	366	56	76	166
Average	129	22	17	56
LSD 5%	107	38	NS	77
CV %	49	103	217	81

Bold: Results are not statistically different from top ranking variety in each column.

East District Trials





Official Variety Trial

Buckley Creek Farms, Harbor Beach, MI - 2012

Trial Quality: Good	Soil Info: Loam, 2.4% OM	Rhizoc Control: Quadris T-band and 6-8 lf, Good Control
Planted: April 18	7.9 pH, Above Optimum Levels; P, K Adequate: Mn, B	Cerc Control: 4 Applications Good Control
Harvested: October 2	Added N: 100 lbs	Other Pests: None
Plot Size: 2 rows X 38 ft, 8 reps	Previous Crop: Corn	
Row Spacing: 22 inch	Seasonal Rainfall: 12.5 inches	
Seeding Rate: 2" thinned to 150 beets/100 ft		

Variety	\$/A	RWSA	RWST		Yield		Sugar		CJP	
			Actual	Rank	T/A	Rank	%	Rank	%	Rank
C-RR824	\$2,165	9580	280	15	34.1	1	18.7	13	95.6	15
B-17RR32	\$2,060	9117	284	13	32.1	2	18.8	12	95.8	12
B-18RR4N	\$2,047	9060	293	7	31.0	3	19.3	7	96.0	6
C-RR059	\$2,007	8881	301	1	29.5	9	19.9	1	95.7	14
B-19RR1N	\$1,988	8799	287	10	30.6	5	18.9	11	96.1	5
C-RR074NT	\$1,986	8787	294	5	29.9	8	19.4	5	95.8	11
SX-1212RR	\$1,980	8763	287	11	30.5	7	19.0	10	96.0	7
HM-173RR	\$1,948	8621	279	16	31.0	4	18.6	14	95.5	17
HM-28RR	\$1,939	8581	281	14	30.6	6	18.5	16	96.3	3
HM-133RR	\$1,895	8385	299	3	28.0	12	19.8	3	95.8	13
SX-1281RR	\$1,868	8265	291	8	28.4	11	19.3	8	95.9	9
SX-1211N RR	\$1,825	8076	288	9	28.0	13	19.1	9	95.9	8
B-10RR34	\$1,818	8044	300	2	26.8	15	19.7	4	96.3	2
SX-1291RR	\$1,798	7955	293	6	27.2	14	19.4	6	95.8	10
HM-27RR	\$1,778	7868	277	17	28.4	10	18.3	17	96.2	4
HM-131RR	\$1,770	7831	298	4	26.3	16	19.8	2	95.5	16
SX-1215RR	\$1,600	7081	285	12	24.9	17	18.6	15	96.6	1
Average	\$1,910	8452	289		29.3		19.1		95.9	
LSD 5 %	144.2	638.2	8.0		2.1		0.5		0.4	
CV %	8.0	8.0	2.9		7.6		2.6		0.5	

\$/Acre: Gross dollars per acre assuming \$65 payment.

Bold: Results are not statistically different from top-ranking variety in each column.

Comments: Emergence was good and there were no significant problems. This was our driest location and had the lowest yield. The sugar was high for an October 2 harvest because conditions were dry.



Official Variety Trial

Stoutenburg Farms, Sandusky, MI - 2012

Trial Quality: Fair-Good	Soil Info: Sandy Clay Loam,	Rhizoc Control: Quadris T-band and 6-8 lf,
Planted: April 11	3.4% OM, 7.0 pH	Good Control
Harvested: September 25	Above Opt Levels; P, K	Cerc Control: 4 Applications
Plot Size: 2 rows X 38 ft, 8 reps	Adequate: Mg, Low: B	Good Control
Row Spacing: 22 inch	Added N: 95 lbs	Other Pests: None
Seeding Rate: 2" thinned to 150 beets/100 ft	Previous Crop: Dry Beans	
	Seasonal Rainfall: 15.9 inches	

Variety	\$/A	RWSA	RWST		Yield		Sugar		CJP	
			Actual	Rank	T/A	Rank	%	Rank	%	Rank
C-RR074NT	\$2,129	7369	233	3	31.6	2	16.3	3	93.8	10
C-RR824	\$2,090	7238	217	16	33.5	1	15.3	14	93.7	11
SX-1291RR	\$2,080	7202	231	6	31.2	4	16.2	4	93.6	14
C-RR059	\$2,038	7056	233	4	30.3	9	16.1	6	94.4	4
B-18RR4N	\$2,029	7026	227	9	30.9	6	15.8	9	94.1	7
SX-1212RR	\$2,015	6975	226	10	30.9	7	15.6	12	94.6	3
SX-1281RR	\$2,012	6967	229	7	30.4	8	16.1	7	93.7	12
B-17RR32	\$2,003	6935	223	12	31.1	5	15.8	10	93.5	17
B-19RR1N	\$1,982	6863	219	15	31.4	3	15.2	15	94.4	5
HM-131RR	\$1,976	6842	239	1	28.6	13	16.7	1	93.7	13
HM-133RR	\$1,956	6771	236	2	28.7	12	16.6	2	93.5	16
HM-173RR	\$1,899	6575	223	11	29.4	10	15.7	11	93.6	15
SX-1211N RR	\$1,857	6429	231	5	27.9	14	16.1	5	94.0	8
HM-28RR	\$1,851	6410	220	14	29.1	11	15.4	13	93.9	9
B-10RR34	\$1,655	5729	229	8	25.0	16	15.9	8	94.2	6
SX-1215RR	\$1,639	5674	220	13	25.7	15	15.2	16	94.7	1
HM-27RR	\$1,466	5078	209	17	24.2	17	14.5	17	94.7	2
Average	\$1,922	6655	226		29.4		15.8		94.0	
LSD 5 %	175.5	607.8	8.8		2.3		0.5		0.6	
CV %	9.5	9.5	4.0		8.2		3.4		0.7	

\$/Acre: Gross dollars per acre assuming \$65 payment.

Bold: Results are not statistically different from top-ranking variety in each column.

Comments: Emergence was poor but the stand was uniform after thinning. Growth was slow early in the summer. This was one of our drier locations and the first OVT harvested. Sugar content was low.



Plant to Stand Trial

Buckley Creek Farms, Harbor Beach, MI - 2012

Trial Quality: Very Good
Planted: April 18
Harvested: October 3
Previous Crop: Corn
Soil Type: Loam

Rhizoc Control: Quadris T-band and 6-8 lf, Good Control
Cerc Control: 4 Applications Good Control
Seasonal Rainfall: 12.5 inches

Plot Size: 4 rows x 38 ft
Reps: 5
Row Spacing: 22 inch
Seeding Rate: 4.4 inch spacing
Other Pests: None

Variety	\$/Acre	RWSA		RWST		T/A		% Sugar		% CJP		Beets/100 ft		Cerc	
		Actual	Rank	Actual	Rank	Actual	Rank	Actual	Rank	Actual	Rank	Actual	Rank	Rating	Rank
C-RR074NT	\$1,896	8711	2	307	2	28.4	3	20.2	3	95.9	8	191	2	0.5	10
C-RR059	\$1,892	8694	1	313	1	27.8	5	20.6	1	95.9	10	182	5	0.4	6
B-19RR1N	\$1,881	8642	7	298	7	29.0	2	19.6	9	96.0	5	177	9	0.7	13
C-RR824	\$1,817	8348	14	287	14	29.1	1	19.1	13	95.7	11	179	8	0.6	12
B-17RR32	\$1,800	8272	11	294	11	28.1	4	19.4	12	96.0	6	172	10	0.7	14
B-10RR34	\$1,766	8114	5	305	5	26.6	6	20.1	5	96.1	3	184	4	0.4	5
B-18RR4N	\$1,727	7936	3	306	3	25.9	11	20.1	4	96.3	1	181	6	0.6	11
SX-1291RR	\$1,720	7902	6	299	6	26.4	9	19.7	7	96.0	7	155	13	0.3	4
SX-1281RR	\$1,712	7866	8	296	8	26.6	7	19.7	8	95.5	13	164	11	0.3	3
HM-133RR	\$1,702	7823	4	306	4	25.5	12	20.3	2	95.6	12	156	12	0.4	8
HM-173RR	\$1,700	7810	9	295	9	26.4	8	19.4	11	96.1	4	180	7	0.4	7
HM-28RR	\$1,678	7712	10	295	10	26.2	10	19.5	10	95.9	9	232	1	0.5	9
HM-27RR	\$1,605	7374	13	290	13	25.4	13	19.1	14	96.2	2	185	3	0.3	2
HM-131RR	\$1,529	7024	12	294	12	23.9	14	19.8	6	95.0	14	118	14	0.2	1
Average	\$1,745	8016		299		26.8		19.7		95.9		175.5		0.4	
LSD 5 %	126.5	581.3		9.0		2.0		0.5		0.5		22.0		0.4	
CV %	5.8	5.8		2.4		5.8		2.2		0.4		9.9		72.2	

\$/Acre: Gross dollars per acre assuming \$65 payment.

Bold: Results are not statistically different from top-ranking variety in each column.

Comments: Emergence was good and there were no significant problems. This was our driest location and had the lowest yield. The sugar was high for an October 2 harvest because conditions were dry.



Plant to Stand Trial

Stoutenburg Farms, Sandusky, MI - 2012

Trial Quality: Fair
Planted: April 11
Harvested: September 26
Previous Crop: Dry Beans
Soil Type: Sandy Clay Loam

Rhizoc Control: Quadris T-band and 6-8 lf, Good Control
Cerc Control: 4 Applications Good Control
Seasonal Rainfall: 15.9 inches

Plot Size: 4 rows x 38 ft
Reps: 6
Row Spacing: 22 inch
Seeding Rate: 4.4 inch spacing
Other Pests: None

Variety	\$/Acre	RWSA		RWST		T/A		% Sugar		% C-JP		Beets/100 ft	
		Actual	Rank	Actual	Rank	Actual	Rank	Actual	Rank	Actual	Rank	Actual	Rank
B-18RR4N	\$2,096	7154	1	238	1	30.1	1	16.3	1	94.9	2	116	2
C-RR074NT	\$2,000	6825	3	233	3	29.3	3	16.2	2	94.2	6	107	3
HM-28RR	\$1,902	6491	9	218	9	29.8	2	15.2	9	94.1	7	149	1
C-RR059	\$1,893	6462	5	227	5	28.4	7	15.8	6	94.2	5	104	5
B-19RR1N	\$1,843	6291	8	220	8	28.6	6	15.2	11	94.6	3	106	4
C-RR824	\$1,834	6259	11	216	11	28.9	5	15.2	10	93.7	8	80	11
B-17RR32	\$1,793	6117	13	210	13	29.2	4	15.1	12	93.0	13	97	7
HM-133RR	\$1,771	6044	6	221	6	27.4	8	15.8	5	93.1	12	95	8
SX-1281RR	\$1,721	5872	10	216	10	27.1	9	15.4	8	93.2	11	71	14
HM-131RR	\$1,662	5671	4	227	4	24.9	12	16.0	4	93.7	9	78	13
B-10RR34	\$1,657	5653	2	235	2	24.0	14	16.0	3	95.0	1	101	6
SX-1291RR	\$1,603	5469	7	221	7	24.7	13	15.6	7	93.5	10	82	10
HM-27RR	\$1,578	5384	12	211	12	25.5	10	14.7	13	94.3	4	95	9
HM-173RR	\$1,464	4996	14	200	14	25.0	11	14.4	14	93.0	14	80	12
Average	\$1,773	6049	221	27.4	27.4	15.5	93.9	97.1					
LSD 5 %	245.9	839.0	11.9	3.4	0.7	18.2							
CV %	12.1	12.1	4.7	11.0	3.7	16.3							

\$/Acre: Gross dollars per acre assuming \$65 payment.

Bold: Results are not statistically different from top-ranking variety in each column.

Comments: Emergence was poor and stands were thinner. This affected the yield some but mainly the sugar content. This was a drier location.

Trial Quality: Poor/Fair	Soil Info: Loam	Rhizoc Control: Good Control:
Planted: March 30	Fertilizer: Fall: 150# of MAP/250#	Quadris In Furrow
Harv/Samp: Nov 16 / Oct 22	K2O, At Planting:	Cerc Control: Fair Control: 1. Inspire XT +
Plot Size: 3 reps	10 gal 28% banded,	EBDC, 2. Parasol + EBDC,
Row Spacing: 30 inch	Broadcast: 200# Urea	3. Proline + EBDC,
Seeding Rate: 48,000	Previous Crop: Wheat	4. Senator + EBDC
		Other Pests: None

Variety	\$/A	RWSA	RWST	T/A	% Sugar	% CJP	Populations 100 Ft. of Row		Dead Beets/ 1200 Ft.	
							10 Day	30 Day		
B-18RR4N	\$2,707	11870	294	40.4	19.4	96.0			28	
C-RR074NT	\$2,654	11654	289	40.2	19.2	95.7			50	
C-RR059	\$2,642	11586	293	39.5	19.4	95.7			1	
B-19RR1N	\$2,583	11333	279	40.6	18.5	95.8			15	
B-10RR34	\$2,561	11229	293	38.3	19.5	95.6	Emergence was highly variable and unreliable. Emergence data is therefore unusable.		2	
C-RR086	\$2,554	11208	290	38.6	19.3	95.6		1		
HM-173RR	\$2,510	11011	283	38.8	19.1	95.0		2		
HM-28RR	\$2,354	10323	272	38.0	18.2	95.6		4		
SX-1291RR	\$2,340	10240	285	36.1	19.1	95.1		0		
C-RR824	\$2,311	10120	272	37.2	18.3	95.4		20		
SX-1281RR	\$2,281	10005	285	35.1	19.2	95.0		2		
HM-131RR	\$2,063	9075	284	31.8	19.3	94.6		0		
Average	\$2,463	10805	285	37.9	19.0	95.4		—	—	11
LSD 5 %	—	1051	13	3.3	0.7	0.5		—	—	19
CV %	—	6	3	5.1	2.2	0.3		—	—	105

\$/Acre: Gross dollars per acre assuming \$65 payment.

Bold: Results are not statistically different from top-ranking variety in each column.

Comments: Uneven emergence (large gaps) occurred in the field from specific row problems with the planter and adverse weather conditions. Additionally there was some variability in the field. Even with the emergence and variation problems the field yielded very well. Late season Cercospora may have effected sugar content. No sugarbeet cyst nematode found in this field.



Variety Trial

Wadsworth Farms Inc., Sandusky, MI - 2012

Trial Quality: Excellent	Soil Info: Parkhill Loam	Rhizoc Control: Excellent Control: Quadris In Furrow & 6-8 Leaf
Planted: March 12	Fertilizer: Fall: Potash, 2x2: 240# of 14-19-3 plus micros, Sidedress: 100# of N	Cerc Control: Excellent Control: 1. Proline, 2. Gem + EBDC, 3. Inspire XT, 4. Kocide
Harv/Samp: Nov 15 / Oct 17	Previous Crop: Dry Beans	Other Pests: Sugarbeet Cyst Nematode
Plot Size: 3 reps	Weather: Dry Summer	
Row Spacing: 28 inch		
Seeding Rate: 57,000		

Variety	\$/A	RWSA	RWST	T/A	% Sugar	% CJP	Populations 100 Ft. of Row		Dead Beets/ 1200 Ft.
							18 Day	33 Day	
B-19RR1N	\$2,817	13548	319	42.5	21.0	95.9	35	244	22
C-RR074NT	\$2,816	13545	328	41.3	21.6	95.8	154	279	16
B-18RR4N	\$2,785	13394	328	40.9	21.5	95.9	109	256	12
C-RR059	\$2,588	12450	307	40.5	20.3	95.7	142	260	1
C-RR824	\$2,546	12249	301	40.6	19.9	95.8	150	265	12
B-10RR34	\$2,483	11945	303	39.4	19.9	96.3	73	258	3
C-RR086	\$2,438	11731	306	38.3	20.2	95.9	147	232	5
HM-28RR	\$2,402	11548	304	38.1	19.9	96.1	21	267	4
HM-173RR	\$2,398	11540	306	37.7	20.2	95.8	113	255	1
SX-1291RR	\$2,361	11354	316	35.9	20.7	96.2	132	249	2
HM-131RR	\$2,322	11170	319	35.0	21.2	95.4	102	201	0
SX-1281RR	\$2,302	11072	314	35.3	20.6	95.9	116	255	3
Average	\$2,521	12129	313	38.8	20.6	95.9	108	252	7
LSD 5 %	—	721	12	1.6	0.7	0.4	30	16	8
CV %	—	4	2	2.5	2.1	0.2	16	4	70

\$/Acre: Gross dollars per acre assuming \$65 payment.

Bold: Results are not statistically different from top-ranking variety in each column.

Comments: Excellent emergence and very little disease of any kind. Sugarbeet cyst nematode was identified.

Central District Trials





Official Variety Trial

Trost Farms, Pigeon, MI - 2012

Trial Quality: Very Good	Soil Info: Sandy Clay Loam,	Rhizoc Control: Quadris T-band
Planted: March 29	2.8% OM, 7.0 pH	and 6-8 lf,
Harvested: October 5	Above Opt Levels; P, K	Good Control
Plot Size: 2 rows X 38 ft, 8 reps	Adequate: Mn, B	Cerc Control: 4 Applications
Row Spacing: 22 inch	Added N: 92 lbs	Good Control
Seeding Rate: 2" thinned to	Previous Crop: Corn	Other Pests: None
150 beets/100 ft	Seasonal Rainfall: 14.2 inches	

Variety	\$/A	RWSA	RWST		Yield		Sugar		CJP	
			Actual	Rank	T/A	Rank	%	Rank	%	Rank
B-19RR1N	\$2,831	11319	277	1	40.9	1	18.7	1	94.9	1
SX-1212RR	\$2,726	10897	270	3	40.3	2	18.5	6	94.3	4
B-18RR4N	\$2,672	10683	270	4	39.6	4	18.5	5	94.2	5
SX-1211N RR	\$2,607	10423	273	2	38.2	7	18.5	4	94.6	2
HM-27RR	\$2,516	10060	263	8	38.2	6	18.1	11	94.2	7
C-RR074NT	\$2,495	9975	262	11	38.1	9	18.2	9	93.7	11
C-RR059	\$2,470	9874	266	7	37.4	10	18.3	7	94.0	9
C-RR824	\$2,448	9789	251	14	39.0	5	17.3	16	94.3	3
HM-173RR	\$2,406	9618	243	17	39.6	3	17.2	17	93.0	16
SX-1291RR	\$2,385	9536	263	9	36.2	12	18.3	8	93.7	12
B-17RR32	\$2,382	9524	250	15	38.2	8	17.6	14	93.3	15
B-10RR34	\$2,368	9468	262	10	36.1	13	18.1	10	93.9	10
SX-1215RR	\$2,365	9456	262	12	36.1	14	18.0	12	94.2	6
HM-133RR	\$2,334	9332	267	5	34.9	16	18.6	3	93.7	13
HM-28RR	\$2,333	9327	259	13	36.0	15	17.8	13	94.2	8
SX-1281RR	\$2,264	9053	246	16	36.8	11	17.5	15	92.8	17
HM-131RR	\$2,196	8781	267	6	32.9	17	18.6	2	93.5	14
Average	\$2,459	9830	262		37.6		18.1		93.9	
LSD 5 %	172.0	687.8	11.9		2.3		0.7		0.7	
CV %	7.3	7.3	4.7		6.3		3.7		0.8	

\$/Acre: Gross dollars per acre assuming \$65 payment.

Bold: Results are not statistically different from top-ranking variety in each column.

Comments: This was our first location planted March 29. The yield was very good and the sugar was good even though this was a drier location. There were no significant problems.



Official Variety Trial

Vader Farm, Wisner, MI - 2012

Trial Quality: Very Good	Soil Info: Clay Loam,	Rhizoc Control: Quadris T-band and 6-8 lf,
Planted: April 4	2.9% OM, 8.0 pH	Good Control
Harvested: October 10	Above Opt Levels; P, K	Cerc Control: 4 Applications
Plot Size: 2 rows X 38 ft, 8 reps	Adequate: Mn, B	Good Control
Row Spacing: 22 inch	Added N: 100 lbs	Other Pests: Low level of
Seeding Rate: 2" thinned to 150 beets/100 ft	Previous Crop: Corn	Cyst Nematodes
	Seasonal Rainfall: 19.1 inches	

Variety	\$/A	RWSA	RWST		Yield		Sugar		CJP	
			Actual	Rank	T/A	Rank	%	Rank	%	Rank
C-RR059	\$2,425	11692	332	1	35.3	6	21.9	1	95.5	14
B-17RR32	\$2,391	11527	306	14	37.7	1	20.4	13	95.4	16
C-RR824	\$2,363	11389	303	16	37.5	2	20.2	16	95.5	13
B-18RR4N	\$2,350	11327	316	8	35.9	3	20.7	8	96.0	7
C-RR074NT	\$2,322	11191	317	6	35.3	4	21.0	6	95.6	11
SX-1281RR	\$2,306	11115	316	7	35.3	5	20.9	7	95.5	15
SX-1291RR	\$2,278	10980	320	5	34.4	8	21.1	4	95.6	10
SX-1212RR	\$2,242	10810	308	13	35.1	7	20.2	14	96.1	3
HM-28RR	\$2,228	10740	313	11	34.3	10	20.6	10	95.9	8
HM-133RR	\$2,223	10718	329	3	32.6	14	21.8	2	95.4	17
B-19RR1N	\$2,208	10647	312	12	34.2	11	20.5	12	96.1	4
HM-173RR	\$2,166	10443	305	15	34.4	9	20.2	15	95.7	9
B-10RR34	\$2,154	10385	322	4	32.2	15	21.1	5	96.1	5
SX-1211NRR	\$2,144	10335	315	10	32.9	13	20.7	9	96.0	6
HM-131RR	\$2,100	10123	329	2	30.8	17	21.8	3	95.5	12
SX-1215RR	\$2,088	10066	316	9	31.9	16	20.5	11	96.5	1
HM-27RR	\$2,086	10055	298	17	33.8	12	19.6	17	96.2	2
Average	\$2,240	10797	315		34.3		20.8		95.8	
LSD 5 %	157.5	759.0	11.3		2.6		0.7		0.4	
CV %	7.4	7.4	3.7		7.9		3.4		0.4	

\$/Acre: Gross dollars per acre assuming \$65 payment.

Bold: Results are not statistically different from top-ranking variety in each column.

Comments: Emergence was good. This was our second location planted on April 2. The yield was good. The sugar was very high; only 80 pounds of nitrogen was added after corn. Cyst nematodes were present in a low level.



Plant to Stand Trial

Trost Farms, Pigeon, MI - 2012

Trial Quality: Very Good
Planted: March 29
Harvested: October 5
Previous Crop: Corn
Soil Type: Sandy Clay Loam

Rhizoc Control: Quadris T-band and 6-8 If, Good Control
Cerc Control: 4 Applications Good Control
Seasonal Rainfall: 14.2 inches

Plot Size: 4 rows x 38 ft
Reps: 6
Row Spacing: 22 inch
Seeding Rate: 4.4 inch spacing
Other Pests: None

Variety	\$/Acre	RWSA	RWST		T/A		% Sugar		% CJP		Beets/100 ft		Cerc	
			Actual	Rank	Actual	Rank	Actual	Rank	Actual	Rank	Actual	Rank	Actual	Rank
B-18RR4N	\$2,448	10453	288	3	36.3	1	19.3	4	95.2	3	171	6	1.2	9
C-RR059	\$2,433	10386	289	2	36.0	2	19.5	2	94.8	7	174	4	1.4	14
B-19RR1N	\$2,361	10078	295	1	34.2	7	19.6	1	95.7	1	175	3	1.1	7
C-RR074NT	\$2,294	9795	285	6	34.4	6	19.4	3	94.5	8	181	2	1.3	11
HM-28RR	\$2,263	9660	287	4	33.6	8	19.3	5	95.1	4	231	1	1.4	13
C-RR824	\$2,253	9617	268	11	36.0	3	18.1	14	95.0	5	168	8	1.3	12
B-17RR32	\$2,226	9504	269	9	35.3	4	18.5	9	94.2	10	166	9	1.1	8
B-10RR34	\$2,211	9437	286	5	33.0	10	19.2	6	95.3	2	173	5	0.8	3
HM-27RR	\$2,174	9279	278	7	33.4	9	18.8	8	94.8	6	170	7	0.8	4
HM-173RR	\$2,159	9217	264	14	34.9	5	18.2	13	94.1	11	155	10	1.3	10
SX-1281RR	\$1,950	8326	268	10	31.1	11	18.5	10	94.0	12	136	12	0.7	1
SX-1291RR	\$1,947	8312	267	12	31.0	12	18.3	12	94.3	9	132	13	0.7	2
HM-133RR	\$1,893	8080	277	8	29.2	14	19.1	7	93.9	13	141	11	0.8	5
HM-131RR	\$1,869	7980	265	13	30.1	13	18.5	11	93.5	14	93	14	0.8	6

Average	\$2,177	9295	278		33.5		18.9		94.6		162.0		1.0	
LSD 5 %	161.9	691.0	11.8		2.6		0.6		0.5		18.0		0.3	
CV %	6.5	6.5	3.7		6.9		2.9		0.5		9.6		29.1	

\$/Acre: Gross dollars per acre assuming \$65 payment.

Bold: Results are not statistically different from top-ranking variety in each column.

Comments: This was our first location planted March 29. The yield was very good and the sugar was good even though this was a drier location. The stand of beets was very good, planted at 4.4 inch spacing. There were no significant problems.

Trial Quality: Excellent	Soil Info: Loam	Rhizoc Control: Excellent Control: Quadris In Furrow & 6-8 Leaf
Planted: March 30	Fertilizer: Broadcast: 69# of N & 1# B, Sidedress: 70# of N	Cerc Control: Excellent Control: 1. Eminent, 2. Gem + EBDC, 3. Proline Sugarbeet Cyst Nematode
Harv/Samp: Oct 12 / Oct 8	Previous Crop: Wheat / Clover	Other Pests:
Plot Size: 3 reps	Weather: Dry Summer	
Row Spacing: 20 inch		
Seeding Rate: 61,000		

Variety	\$/A	RWSA	RWST	T/A	% Sugar	% CJP	Populations 100 Ft. of Row		Dead Beets/ 1200 Ft.
							17 Day	38 Day	
C-RR059	\$2,205	9940	297	33.5	19.8	95.3	19	179	0
C-RR824	\$2,147	9678	281	34.4	18.9	95.1	36	169	1
C-RR074NT	\$2,142	9656	296	32.6	19.9	94.9	27	195	3
HM-173RR	\$2,126	9585	292	32.8	19.6	95.2	22	153	1
B-18RR4N	\$2,108	9501	293	32.4	19.6	95.3	15	180	4
C-RR086	\$2,096	9446	295	32.0	19.8	95.0	38	154	0
B-19RR1N	\$2,087	9405	296	31.8	19.6	95.6	7	168	0
HM-28RR	\$2,084	9394	292	32.2	19.3	95.8	3	176	0
B-10RR34	\$2,075	9350	294	31.8	19.6	95.4	10	179	0
SX-1291RR	\$2,048	9233	299	30.9	20.1	95.0	14	153	1
SX-1281RR	\$1,996	9001	300	30.0	20.1	95.1	9	146	0
HM-131RR	\$1,761	7940	281	28.2	19.1	94.5	6	80	2
Average	\$2,073	9344	293	31.9	19.6	95.2	17	161	1
LSD 5 %	—	358	10	1.0	0.5	0.5	16	11	4
CV %	—	2	2	1.9	1.5	0.3	55	4	195

\$/Acre: Gross dollars per acre assuming \$65 payment.

Bold: Results are not statistically different from top-ranking variety in each column.

Comments: Excellent yielding trial for early harvest date with no disease issues.

Kevin Hecht, Vassar, MI

Trial Quality: Excellent	Seeding Rate: 55,000	Rhizoc Control: Good Control but Spots of Heavier Disease: Quadris 4-6 Leaf
Planted: March 27	Fertilizer: Fall: 300# Potash, Spring Broadcast: 100# MAP & 90# N	Cerc Control: Good Control: 1. Inspire XT, 2. Headline, 3. Eminent
Harv/Samp: Oct 5 / Oct 2	After Emerg: 60# N	Other Pests: SCN & Root Aphid
Plot Size: 7 reps	Previous Crop: Pickles/Rye	
Row Spacing: 30 inch		

Variety	\$/A	RWSA	RWST	T/A	% Sugar	% CJP	Populations 100 Ft. of Row		Dead Beets/ 1200 Ft.
							17 Day	36 Day	
B-19RR1N	\$2,149	10301	307	33.6	20.4	95.4	93	221	15
SX-1212RR	\$2,128	10259	318	32.2	20.9	95.9	147	250	19
LSD 5%	—	450	8	0.9	0.4	0.4	36	11	11
C.V. %	—	3	2	2.0	1.6	0.4	20	3	57

Wegener Farms, Auburn, MI

Trial Quality: Excellent	Seeding Rate: 46,000	Rhizoc Control: Good - Moderate Control: Quadris In Furrow & 6-8 Leaf
Planted: April 5	Fertilizer: Fall: 200# Potash, 2x2: 20 gal. 19-17-0 + micros, Sidedress: 83# N	Cerc Control: Good Control: 1. Eminent, 2. Headline + EBDC, 3. Eminent + EBDC
Harv/Samp: Nov 7 / Oct 3	Previous Crop: Dry Beans	Other Pests: Sugarbeet Cyst Nematode
Plot Size: 5 reps		
Row Spacing: 30 inch		

Variety	\$/A	RWSA	RWST	T/A	% Sugar	% CJP	Populations 100 Ft. of Row		Dead Beets/ 1200 Ft.
							14 Day	34 Day	
C-RR059	\$2,265	10042	286	35.0	19.0	95.8	136	203	7
SX-1212RR	\$2,183	9689	289	33.4	19.0	96.3	143	201	62
LSD 5%	—	302	4	1.2	0.3	0.6	56	33	37
C.V. %	—	2	1	2.0	1.1	0.4	23	9	83

Comments: Seedex variety SX-1212RR is a new variety available for 2013 and has yielded well in Michigan Sugar OVT trials. Both of these Sugarbeet Advancement strip trials had Sugarbeet Cyst Nematode. The Hecht trial compared SX-1212RR versus a nematode resistant variety (B-19RR1N) which would favor the nematode variety. The Wegener trial compared SX-1212RR versus C-RR059 which is moderately resistant to Rhizoctonia. It appears that SX-1212RR has good yield potential, but take caution using this variety in Rhizoctonia fields.

West District Trials





Official Variety Trial

Shaffner Brothers, Freeland, MI - 2012

Trial Quality: Very Good
Planted: April 25
Harvested: October 17
Plot Size: 2 rows X 38 ft, 8 reps
Row Spacing: 22 inch
Seeding Rate: 2" thinned to
 150 beets/100 ft

Soil Info: Silty Loam,
 2.9% OM, 7.7 pH
 Above Opt Levels; P, K
 Adequate: Mn, B
Added N: 90 lbs
Previous Crop: Dry Beans
Seasonal Rainfall: 21.5 inches

Rhizoc Control: Quadris T-band
 and 6-8 lf,
 Good Control
Cerc Control: 4 Applications
 Good Control
Other Pests: Low level of
 Cyst Nematodes

Variety	\$/A	RWSA	RWST		Yield		Sugar		CJP	
			Actual	Rank	T/A	Rank	%	Rank	%	Rank
C-RR059	\$3,107	13359	287	6	46.6	3	19.1	6	95.7	11
C-RR074NT	\$3,095	13309	293	2	45.4	4	19.4	3	95.8	9
B-19RR1N	\$3,085	13268	283	9	47.0	2	18.7	9	96.0	6
C-RR824	\$3,068	13195	265	16	49.8	1	17.8	16	95.3	17
B-18RR4N	\$2,997	12886	289	4	44.6	6	19.1	5	96.0	7
B-17RR32	\$2,981	12819	283	7	45.3	5	18.8	8	95.7	10
HM-133RR	\$2,840	12215	301	1	40.6	14	20.1	1	95.4	15
SX-1291RR	\$2,812	12094	289	5	41.9	10	19.2	4	95.6	13
HM-28RR	\$2,805	12061	279	10	43.3	7	18.4	12	96.1	4
HM-131RR	\$2,773	11925	292	3	40.9	13	19.5	2	95.3	16
B-10RR34	\$2,754	11841	277	12	42.7	8	18.4	11	95.9	8
SX-1281RR	\$2,746	11807	283	8	41.8	11	18.8	7	95.6	12
HM-173RR	\$2,714	11672	277	13	42.2	9	18.5	10	95.4	14
SX-1212RR	\$2,665	11460	278	11	41.2	12	18.3	13	96.5	1
SX-1211N RR	\$2,398	10312	275	14	37.5	15	18.2	14	96.0	5
HM-27RR	\$2,174	9349	255	17	36.6	16	16.9	17	96.3	3
SX-1215RR	\$2,157	9277	272	15	34.2	17	17.9	15	96.4	2
Average	\$2,775	11932	281		42.4		18.6		95.8	
LSD 5 %	163.0	701.0	8.3		2.2		0.5		0.4	
CV %	6.2	6.2	3.0		5.5		2.8		0.5	

\$/Acre: Gross dollars per acre assuming \$65 payment.

Bold: Results are not statistically different from top-ranking variety in each column.

Comments: Very good trial. Emergence was good. Rainfall was good and even though this was not planted until April 25, the yield was exceptional and the sugar was good. There were a few Cyst nematodes present.



Official Variety Trial

English, Rathbone/Breckenridge, MI - 2012

Trial Quality: Good
Planted: April 24
Harvested: October 29
Plot Size: 2 rows X 38 ft, 8 reps
Row Spacing: 22 inch
Seeding Rate: 2" thinned to
 150 beets/100 ft

Soil Info: Clay Loam,
 3.0% OM, 7.5 pH
 Above Opt Levels; P, K
 Adequate: Mn, Low: B
Added N: 100 lbs
Previous Crop: Wheat
Seasonal Rainfall: 22.0 inches

Rhizoc Control: Quadris T-band
 and 6-8 lf,
 Good Control
Cerc Control: 4 Applications
 Good Control
Other Pests: None

Variety	\$/A	RWSA	RWST		Yield		Sugar		CJP	
			Actual	Rank	T/A	Rank	%	Rank	%	Rank
SX-1212RR	\$2,480	12046	318	7	37.9	1	20.9	7	96.1	6
B-19RR1N	\$2,420	11751	320	6	36.7	2	20.9	6	96.2	2
C-RR059	\$2,318	11258	323	1	34.9	4	21.1	2	96.1	5
SX-1215RR	\$2,277	11060	320	5	34.5	5	21.0	4	96.0	7
B-18RR4N	\$2,244	10896	321	4	33.9	6	20.9	5	96.3	1
C-RR824	\$2,243	10893	301	17	36.2	3	20.1	17	95.2	17
SX-1281RR	\$2,148	10433	314	10	33.2	7	20.7	10	95.8	14
HM-28RR	\$2,134	10364	313	11	33.1	10	20.5	14	96.1	4
C-RR074NT	\$2,128	10337	311	12	33.2	8	20.5	12	95.8	11
HM-27RR	\$2,121	10299	311	14	33.2	9	20.5	13	95.7	15
SX-1291RR	\$2,103	10212	316	9	32.4	11	20.8	9	95.8	13
HM-133RR	\$2,079	10096	316	8	32.0	13	20.8	8	95.8	9
SX-1211N RR	\$2,058	9994	311	15	32.2	12	20.4	15	95.9	8
HM-131RR	\$2,038	9899	321	3	30.8	16	21.2	1	95.8	10
HM-173RR	\$2,034	9879	311	13	31.8	14	20.6	11	95.6	16
B-17RR32	\$2,006	9742	308	16	31.6	15	20.3	16	95.8	12
B-10RR34	\$1,953	9487	322	2	29.4	17	21.1	3	96.2	3
Average	\$2,164	10509	315		33.4		20.7		95.9	
LSD 5 %	173.8	844.1	5.7		2.6		0.3		0.3	
CV %	8.3	8.3	1.9		8.2		1.4		0.4	

\$/Acre: Gross dollars per acre assuming \$65 payment.

Bold: Results are not statistically different from top-ranking variety in each column.

Comments: Emergence and early growth were uneven in spots because of wheat straw and wheat growing. Results are good after leaving out the affected plots. Rainfall was good and the yield good after a late April planting. The sugar was very high following a high residue wheat crop and reasonable nitrogen application. The harvest was later, October 29.



Plant to Stand Trial

English, Rathbone/Breckenridge, MI - 2012

Trial Quality: Fair-Good **Rhizoc Control:** Quadris T-band and 6-8 lf, Good Control **Plot Size:** 4 rows x 38 ft
Planted: April 24 **Cerc Control:** 4 Applications **Reps:** 6
Harvested: October 29 **Seasonal Rainfall:** 22.0 inches **Row Spacing:** 22 inch
Previous Crop: Wheat **Soil Type:** Clay Loam **Seeding Rate:** 4.4 inch spacing
Other Pests: None

Variety	\$/Acre	RWSA		RWST		T/A		% Sugar		% C-JP		Beets/100 ft	
		Actual	Rank	Actual	Rank	Actual	Rank	Actual	Rank	Actual	Rank	Actual	Rank
B-18RR4N	\$2,495	11743	2	37.8	1	20.2	5	96.6	1	172	5		
B-19RR1N	\$2,461	11580	5	37.5	2	20.1	7	96.5	2	176	1		
C-RR059	\$2,302	10833	1	33.6	4	21.0	1	96.3	4	173	4		
C-RR074NT	\$2,179	10254	10	33.7	3	20.0	11	96.0	7	168	7		
B-10RR34	\$2,146	10097	3	32.5	7	20.3	3	96.4	3	175	2		
B-17RR32	\$2,119	9970	8	32.6	6	20.1	6	95.9	9	164	9		
HM-28RR	\$2,094	9856	13	33.0	5	19.7	14	96.1	6	165	8		
HM-27RR	\$2,039	9597	7	31.4	9	20.1	9	96.1	5	173	3		
C-RR824	\$2,028	9544	14	32.1	8	19.7	13	95.7	12	161	10		
HM-133RR	\$2,015	9481	4	30.6	11	20.5	2	95.8	11	168	6		
HM-173RR	\$2,008	9449	9	31.0	10	20.1	8	95.9	8	155	12		
SX-1281RR	\$1,991	9370	6	30.5	12	20.3	4	95.8	10	145	13		
SX-1291RR	\$1,753	8251	11	27.3	13	20.0	10	95.5	13	159	11		
HM-131RR	\$1,656	7795	12	26.0	14	20.0	12	95.4	14	108	14		

Average	\$2,092	9844	306	32.1	20.1	96.0	161.6
LSD 5 %	246.0	1157.7	8.5	3.7	0.4	0.5	22.5
CV %	10.4	10.4	2.4	10.2	1.9	0.4	12.3

\$/Acre: Gross dollars per acre assuming \$65 payment.

Bold: Results are not statistically different from top-ranking variety in each column.

Comments: Emergence and early growth were uneven in spots because of wheat straw and wheat growing. Results are good after leaving out the affected plots. Rainfall was good and the yield good after a late April planting. The sugar was very high following a high residue wheat crop and reasonable nitrogen application. The harvest was later, October 29.

Trial Quality: Excellent	Soil Info: Loam	Rhizoc Control: Good Control: Quadris
Planted: March 27	Fertilizer: 2x2: 40-14-0 plus	6-8 Leaf
Harv/Samp: Oct 29 / Oct 16	micros/ACA, Sidedress:	Cerc Control: Very Good Control: 1.
Plot Size: 3 reps	110# of N per acre	Enable + EBDC, 2. Proline +
Row Spacing: 30 inch	Previous Crop: Soybeans	EBDC, 3. Headline, 4. Eminent
Seeding Rate: 56,500		Other Pests: None

Variety	\$/A	RWSA	RWST	T/A	% Sugar	% CJP	Populations 100 Ft. of Row		Dead Beets/ 1200 Ft.
							21 Day	36 Day	
C-RR059	\$2,909	11789	279	42.3	18.5	95.7	199	229	1
B-10RR34	\$2,736	11093	269	41.2	18.0	95.7	176	250	0
B-18RR4N	\$2,725	11050	270	40.9	18.0	95.9	171	233	54
C-RR824	\$2,631	10663	258	41.3	17.4	95.3	171	214	18
B-19RR1N	\$2,617	10608	262	40.4	17.5	95.7	86	209	34
HM-173RR	\$2,611	10583	256	41.4	17.3	95.2	150	198	1
C-RR086	\$2,587	10486	266	39.5	18.0	95.0	146	181	6
HM-28RR	\$2,566	10399	257	40.5	17.2	95.6	141	237	1
SX-1291RR	\$2,531	10255	264	38.9	17.6	95.7	163	201	2
SX-1281RR	\$2,505	10146	262	38.8	17.6	95.4	127	186	4
C-RR074NT	\$2,492	10098	263	38.4	17.8	95.0	190	251	76
HM-131RR	\$2,225	9022	255	35.4	17.4	94.6	91	115	0
Average	\$2,595	10516	263	39.9	17.7	95.4	151	209	17
LSD 5 %	—	801	10	2.3	0.6	0.4	35	21	61
CV %	—	4	2	3.4	1.9	0.3	14	6	217

\$/Acre: Gross dollars per acre assuming \$65 payment.

Bold: Results are not statistically different from top-ranking variety in each column.

Comments: Excellent trial with a little bit of Rhizoctonia. Sugar content of trial was low possibly due to excess soil and applied nitrogen.

Trial Quality: Excellent
Planted: April 9
Harv/Samp: Nov 11 / Oct 16
Plot Size: 3 reps
Row Spacing: 30 inch
Seeding Rate: 50,000

Soil Info: Loamy / Clay
Fertilizer: Pre Plant: 90# of N
 from 50-50 mix of
 Urea/ESN, 2x2: 27 gal. 28%
Previous Crop: Dry Beans

Rhizoc Control: Good Control: Quadris
 In Furrow & 6-8 Leaf
Cerc Control: Very Good Control: 1.
 Inspire XT, 2. Headline +
 EBDC, 3. Eminent
Other Pests: Sugarbeet Cyst Nematode

Variety	\$/A	RWSA	RWST	T/A	% Sugar	% CJP	Populations 100 Ft. of Row		Dead Beets/ 1200 Ft.
							17 Day	29 Day	
C-RR059	\$3,054	13676	302	45.2	20.0	95.6	123	223	17
C-RR074NT	\$2,969	13295	303	43.8	20.1	95.8	139	242	56
SX-1281RR	\$2,875	12878	297	43.3	19.7	95.7	92	191	12
B-18RR4N	\$2,873	12868	298	43.2	19.8	95.6	116	211	49
B-19RR1N	\$2,851	12766	293	43.5	19.4	95.9	58	197	39
B-10RR34	\$2,841	12722	292	43.6	19.5	95.4	109	220	19
C-RR086	\$2,831	12674	293	43.2	19.7	95.1	135	182	6
C-RR824	\$2,805	12559	279	45.1	18.8	95.0	100	197	53
HM-28RR	\$2,749	12307	279	44.1	18.5	95.9	86	224	7
HM-173RR	\$2,743	12285	284	43.3	19.0	95.4	103	204	0
SX-1291RR	\$2,651	11863	290	40.9	19.2	95.8	114	211	1
HM-131RR	\$2,493	11157	282	39.6	19.3	94.2	47	143	4
Average	\$2,811	12588	291	43.2	19.4	95.4	102	204	22
LSD 5 %	—	940	12	2.4	0.7	0.5	29	15	38
CV %	—	4	2	3.3	2.1	0.3	17	4	103

\$/Acre: Gross dollars per acre assuming \$65 payment.

Bold: Results are not statistically different from top-ranking variety in each column.

Comments: Highest yielding trial in Sugarbeet Advancement Program this year. Sugarbeet Cyst Nematode was identified in this field.

Variety Trial

Clay Crumbaugh, Breckenridge, MI - 2012

Trial Quality: Very Good	Soil Info: Loam	Rhizoc Control: Moderate - Heavy Level of Rhizoc: Quadris In Furrow & 6-8 Leaf
Planted: March 21	Fertilizer: 2x2: 400# of 15-9-9-15S plus micros, Preplant: 20 gal. of 28%, Foliar: 3# N	Cerc Control: Good Control: 1. Inspire XT + EBDC, 2. Agritin + EBDC, 3. Topsin + EBDC, 4. Eminent + EBDC
Harv/Samp: Nov 10 / Oct 19	Previous Crop: Soybeans	Other Pests: None
Plot Size: 3 reps		
Row Spacing: 30 inch		
Seeding Rate: 57,500		

Variety	\$/A	RWSA	RWST	T/A	% Sugar	% CJP	Populations 100 Ft. of Row		Dead Beets/ 1200 Ft.
							14 Day	33 Day	
C-RR059	\$2,221	10180	304	33.5	20.1	95.7	93	245	81
HM-173RR	\$2,183	10001	291	34.4	19.6	95.0	68	217	50
B-18RR4N	\$2,182	9994	308	32.5	20.3	96.0	60	237	183
B-19RR1N	\$2,140	9809	299	32.8	19.8	95.8	19	208	229
HM-28RR	\$2,131	9772	292	33.5	19.5	95.4	27	213	64
SX-1291RR	\$2,097	9607	300	32.0	20.0	95.5	110	213	55
C-RR086	\$2,054	9418	303	31.1	20.1	95.5	114	219	78
B-10RR34	\$2,004	9191	305	30.2	20.1	95.8	75	240	93
SX-1281RR	\$2,004	9187	297	30.9	19.8	95.3	102	222	95
C-RR824	\$1,994	9153	288	31.8	19.2	95.4	101	199	213
HM-131RR	\$1,954	8961	294	30.5	19.7	95.1	53	183	44
C-RR074NT	\$1,919	8815	296	29.7	19.7	95.3	108	262	366
Average	\$2,074	9507	298	31.9	19.8	95.5	78	222	129
LSD 5 %	—	985	7	3.2	0.4	0.4	28	39	107
CV %	—	6	1	6.0	1.2	0.2	21	10	49

\$/Acre: Gross dollars per acre assuming \$65 payment.

Bold: Results are not statistically different from top-ranking variety in each column.

Comments: Moderate to heavy Rhizoctonia pressure. Resistant varieties performed well in this situation. No sugarbeet cyst nematodes were found in this field.

Nursery Data





Rhizoctonia Nursery

Michigan Sugar Company & USDA

Average of 2 Years, 2011-2012

Trial Quality: Good
Locations: Michigan & Ft. Collins, CO
Plot Size: 2 rows X 25 ft, 6 reps
Inoculation: Trials were inoculated

Variety	*Average MI & USDA 0-7 Rating
HM-27RR	3.1
HM-133RR	3.1
HM-131RR	3.1
HM-173RR	3.3
C-RR059	3.3
B-10RR34	3.3
SX-1281RR	3.3
HM-28RR	3.4
SX-1291RR	3.5
SX-1211N RR	3.8
B-17RR32	3.8
C-RR824	3.9
B-18RR4N	3.9
SX-1212RR	3.9
SX-1215RR	4.0
B-19RR1N	4.0
C-RR074NT	4.2
Average	3.6
LSD 5%	0.5
CV %	7.4

*The average for 2012 was figured using three locations equally, two from Michigan and one from USDA, Ft. Collins.

Disease Index (0-7): Rating scale 0 = no disease, 1 = very minor, 2 = minor (<5% rot), 3 = 6 to 25% rot, 4 = 26 to 50% rot, 5 = 51 to 75% rot, 6 = 75 to 95% rot and 7 = root completely rotted.



Rhizoctonia Nursery

Michigan and Ft. Collins, CO - 2012

Variety	MSC Avg 2 Locations	USDA
HM-133RR	4.1	2.9
B-10RR34	4.2	3.6
HM-131RR	4.3	3.1
SX-1281RR	4.3	2.9
HM-27RR	4.5	2.3
HM-173RR	4.5	2.1
SX-1291RR	4.7	2.8
C-RR059	4.7	3.2
HM-28RR	5.0	2.8
SX-1211N RR	5.2	3.1
B-19RR1N	5.3	4.1
SX-1212RR	5.3	3.6
C-RR824	5.4	3.7
B-17RR32	5.4	3.1
SX-1215RR	5.6	3.3
B-18RR4N	5.6	2.9
C-RR074NT	6.0	3.9
Average	5.0	2.9
LSD 5%	0.5	1.1
CV %	9.1	30.1

Disease Index (0-7): Rating scale 0 = no disease, 1 = very minor, 2 = minor (<5% rot), 3 = 6 to 25% rot, 4 = 26 to 50% rot, 5 = 51 to 75% rot, 6 = 75 to 95% rot and 7 = root completely rotted.



Cercospora Leafspot Nursery

Average of 2 Years, 2011-2012

Trial Quality: Very Good
Locations: Michigan, 4 Trials
Plot Size: 2 rows X 17.5 ft
Reps: 5
Inoculation: Trials were inoculated

Variety	Avg of 2 Years CLS Rate 0-9	2012 CLS Rate 0-9	2011 CLS Rate 0-9
HM-131RR	2.9	2.8	3.0
HM-133RR	2.9	2.8	3.0
SX-1281RR	3.0	3.0	3.1
SX-1291RR	3.0	2.9	3.2
SX-1215RR	3.3	3.5	3.0
B-10RR34	3.3	3.4	3.1
HM-173RR	3.3	3.6	3.0
SX-1211N RR	3.3	3.5	3.2
HM-27RR	3.4	3.4	3.4
HM-28RR	3.5	3.7	3.3
SX-1212RR	3.7	3.7	3.6
C-RR059	4.0	4.1	3.8
C-RR074NT	4.1	4.4	3.8
B-18RR4N	4.2	3.9	4.5
B-19RR1N	4.4	4.4	4.4
B-17RR32	4.5	4.6	4.3
C-RR824	4.6	4.8	4.4
Average	3.6	3.7	3.5

Cercospora 0-9 Rating Scale: 0 = no spots, 1 = very few spots, 2 = up to 10 spots/leaf, 2.5 = up to 50 spots/leaf, 3 = 100 to 200 spots/leaf (approx 3% leaf desiccation), 4 = up to 10% leaf desiccation, 5 = up to 25% desiccated, 6 = up to 50% desiccated, 7 = up to 75% desiccated, 8 = up to 90% desiccated, 9 = leaves completely dead.



Cyst Nematode Nursery

Vader Farm, Unionville, MI 2012

Trial Quality: Fair to Good **Rainfall:** 19.06
Planted: April 13 **Cerc Control:** Good
Evaluated: August 30 **Rhizoc Control:** Good
Soil Type: Sandy Loam **Plot Size:** 2 rows x 25 ft, 6 reps

Variety	Nem* Rating 0-5	Eggs + Juv's / 100 cc Soil	Yield Tons / Acre
C-RR074NT	1.9	1774	19.1
B-12RR6N	2.0	5128	21.0
HM-NT9403RR	2.0	4107	18.6
B-18RR4N	2.1	4753	20.4
Tolerant Check	2.2	3273	21.0
B-19RR1N	2.2	2840	23.0
C-RR222NT	2.2	2763	17.8
B-12RR2N	2.3	6288	22.0
M-NT208	2.4	6343	17.2
SX-1227N RR	2.4	5583	18.7
SX-1213N RR	2.5	5687	20.1
SX-1211N RR	2.5	9560	17.8
HM-28RR	2.6	4650	16.2
HM-NT9425RR	2.6	4229	17.8
M-NT207	2.7	4317	19.7
B-17RR32	2.7	6218	16.3
HM-50RR	2.9	5180	12.7
SX-1260RR	3.3	5717	14.1
Average	2.4	4912	18.5
LSD 5%	0.6	3418	2.8
CV %	22.0	60.3	13.2

Bold = Nematode tolerant variety

***Root Rating Scale:** 0 = No cysts, 1 = 1 to 2 cysts, 2 = 3 to 5 cysts, 3 = 6 to 12 cysts, 4 = 13 to 25 cysts, 5 = Over 25 cysts per root

Sugar samples were lost due to a freezer malfunction. Soil for nematode counts was collected from the roots rated.



Root Aphid Nursery

Syngenta, Ft. Collins, CO
Average 2011 & 2012

Variety	Root Aphid % Infested
HM-133RR	4.7
HM-131RR	5.4
C-RR059	11.4
B-17RR32	15.8
C-RR824	19.3
C-RR074NT	19.3
B-18RR4N	23.9
B-10RR34	24.9
SX-1281RR	26.7
SX-1291RR	29.4
HM-173RR	29.5
B-19RR1N	29.6
HM-28RR	44.3
SX-1211N RR	46.1
SX-1212RR	60.1
HM-27RR	73.3
SX-1215RR	93.5
Average	32.4
LSD 5%	24.5
CV %	36.4

% Infested: Varieties below 20% are considered resistant, varieties between 20% and 60% are considered to be segregating or moderately tolerant and varieties over 60% are considered to be susceptible.

Comments: Nursery is conducted in natural conditions. All plants with any evidence of root aphids are considered infested.



Aphanomyces Nursery

BetaSeed, Shakopee, MN

Average of 2011 & 2012

Trial Design: RCBD, 4 rows x 30 ft
Ratings Scale: 0-9 scale, lower rating is better
Reps: 6

Variety	Aphanomyces, 1-9 Root Rating		
	Avg 2011 & 2012	2012	2011
B-18RR4N	3.4	3.1	3.8
B-19RR1N	4.0	3.3	4.7
SX-1291RR	5.5	3.7	7.3
B-17RR32	5.6	4.7	6.5
SX-1281RR	5.6	3.5	7.8
SX-1211N RR	5.7	5.8	5.5
HM-133RR	5.8	3.6	7.9
B-10RR34	5.8	3.3	8.3
HM-27RR	6.0	3.7	8.2
C-RR074NT	6.9	7.2	6.5
SX-1212RR	7.3	6.9	7.7
HM-173RR	7.3	8.5	6.2
C-RR059	7.4	7.5	7.3
SX-1215RR	7.4	7.8	7.0
C-RR824	8.0	8.3	7.7
HM-131RR	8.2	8.3	8.0
HM-28RR	8.3	8.5	8.1
Average	6.4	5.7	7.0
LSD 5%	3.2	1.3	0.7
CV %	23.1	20.3	9.0

Rating Scale: 1 = highly resistant, 9 = highly susceptible



Aphanomyces Nursery

BetaSeed, Shakopee, MN - 2012

Trial Design: RCBD, 4 rows x 30 ft
Ratings Scale: 0-9 scale, lower rating is better
Planted: May 18
Reps: 6
Ratings: Foliar, July 31
 Root, August 27-28

Variety	Aphanomyces Root Rating 1-Sept	Aphanomyces Follar Rating 1-Sept	Healthy Sugarbeets # Per Plot
B-18RR4N	3.1	2.7	1.3
B-19RR1N	3.3	3.0	1.7
B-10RR34	3.3	3.3	1.3
SX-1281RR	3.5	3.8	1.7
HM-133RR	3.6	3.4	1.5
HM-27RR	3.7	4.1	2.0
SX-1291RR	3.7	3.9	2.0
RES-CHECK 1	4.4	4.6	2.3
B-17RR32	4.7	4.5	2.2
RES-CHECK 2	4.8	4.8	2.5
SX-1211N RR	5.8	6.4	3.3
SX-1212RR	6.9	6.9	3.5
C-RR074NT	7.2	7.4	3.7
C-RR059	7.5	7.6	4.0
MOD-SUSC-CHECK 2	7.6	7.2	3.5
MOD-SUSC-CHECK 1	7.6	7.0	3.3
SUSC-CHECK 1	7.7	6.9	2.5
SX-1215RR	7.8	7.5	3.8
SUSC-CHECK 2	8.0	7.8	3.7
C-RR824	8.3	8.2	4.3
HM-131RR	8.3	8.2	4.7
HM-173RR	8.5	8.4	4.5
HM-28RR	8.5	8.4	4.2
Average	6.0	5.9	2.9
LSD 5%	1.31	1.48	0.85
CV %	20.3	23.2	26.1

Rating Scale: 1 = highly resistant, 9 = highly susceptible



Rhizomania Nursery

USDA, Kimberly, Idaho

Average of 2 Years, 2011 & 2012

Location: Kimberly, Idaho
Plot Size: 2 rows x 24 ft
Ratings Scale: 0-9 with lower being better

Variety	Root Rating	Foliar % Susc	RWSA	T/A	% Suc
HM-28RR	1.9	0.10	7292	26.3	16.0
HM-27RR	1.9	0.00	6916	25.6	16.0
B-17RR32	1.9	0.20	7780	27.5	16.4
SX-1291RR	2.0	0.10	7300	25.8	16.5
SX-1212RR	2.0	0.00	7825	27.4	16.5
C-RR824	2.0	0.20	8132	28.6	16.6
SX-1281RR	2.1	0.25	6710	24.3	16.2
SX-1215RR	2.1	0.35	7411	25.7	16.7
HM-173RR	2.1	0.00	7423	26.8	16.3
C-RR059	2.1	0.00	7196	25.0	16.8
B-10RR34	2.2	0.00	7623	26.5	16.7
SX-1211N RR	2.2	0.50	6554	24.1	16.0
HM-131RR	2.2	0.10	6346	22.0	16.7
HM-133RR	2.2	0.00	6969	24.1	16.8
B-19RR1N	2.2	0.50	7385	26.2	16.4
C-RR074NT	2.2	0.00	6922	24.0	16.8
B-18RR4N	2.4	0.10	7418	25.7	16.6
Susc Check	3.0	91.50	4215	16.6	14.6
Average	2.1	5.2	7247	25.6	16.4
LSD 5%	0.2	1.9	955.3	3.3	0.4
CV %	5.6		6.2	6.1	1.1



Official Variety Trials, 2012

Location Information

	Quanicasee	Ruth	Sandusky	Pigeon	Breckenridge	Freeland
Grower	Vader	Buckley Creek	Stoutenburg	Trost	English	Shaffner
Trial Quality	Very Good	Good	Fair - Good	Very Good	Good	Very Good
Planted	April 4	April 18	April 11	March 29	April 24	April 25
Harvested	Oct 10	Oct 2	Sept 25	Oct 5	Oct 29	Oct 17
Soil Type	Clay Loam	Loam	Sandy Clay Loam	Sandy Clay Loam	Clay Loam	Silty Loam
Soil pH	8.0	7.9	7.0	7.0	7.5	7.7
Soil %OM	2.9	2.4	3.4	2.8	3.0	2.9
CEC meq/100 g	12.3	9.4	12.1	11.9	18.2	22.7
Phosphorus	Abv. Optimum	Abv. Optimum	Abv. Optimum	Abv. Optimum	Abv. Optimum	Abv. Optimum
Potassium	Abv. Optimum	Abv. Optimum	Abv. Optimum	Abv. Optimum	Abv. Optimum	Abv. Optimum
Magnesium	Abv. Optimum	Abv. Optimum	Abv. Optimum	Abv. Optimum	Abv. Optimum	Abv. Optimum
Manganese	High	High	Medium	High	High	High
Boron	High	Medium	Very Low	Medium	Low	Medium
Zinc	Low	Medium	Medium	High	Medium	Medium
Nitrogen Added	100	100	95	92	100	90
Seasonal Rainfall						
April	1.43	0.76	1.16	1.36	0.40	0.28
May	3.66	2.38	2.72	2.64	1.83	3.43
June	2.05	1.54	2.43	1.59	2.46	2.12
July	3.62	2.54	2.45	1.87	6.01	4.18
August	6.04	2.62	3.34	3.85	6.92	7.77
September	1.65	2.63	3.76	2.41	1.08	1.73
October	0.61	0.01		0.44	3.30	2.02
Total	19.06	12.48	15.86	14.16	22.00	21.53

Rainfall amounts included from month of planting to the date of harvest at each location.

REACH/SUGARBEET ADVANCEMENT COMMITTEE LIST

2012 VOTING MEMBERSHIP

24 VOTING MEMBERS

Company & Name	Terms	Expire
Michigan Sugar Company		
Paul Pfenninger (5th Member)	3	2015
Greg Clark	1	2013
Jim Stewart	4	2016
Paul Wheeler	2	2014
Dave Bailey	3	2015
Matt Booms	1	2013
Lee Hubbell	4	2016
Rudy Schlatter	2	2014
Michigan Sugar Company District Growers		
Chris Guza (Chairman)	1	2013
Mark Sylvester	1	2013
Rick Leach (Treasurer)	1	2013
Michigan Sugar Company At Large Growers		
Clay Crumbaugh (Secretary)	1	2013
Kurt Habel	3	2015
Scott Roggenbuck (Vice Chair)	2	2014
Andy Schaffner	1	2013
Rob McKerrall	2	2014
Michigan State University and University of Guelph		
Linda Hanson	2	2014
Laura Van Eerd	3	2015
Christy Sprague	1	2013
Sugar Beet Seed Company		
Andy Bernia	1	2013
Agri-Business		
Travis Tanton	1	2013
Brian Devine	2	2014
Michigan Sugar Company Board of Directors		
Mark Richards	1	2013
Kent Houghtaling	1	2013

EX-OFFICIO MEMBERS

Company	Name
Farm Bureau	Bob Boehm
USDA	Mitch McGrath
SBA Director	Steve Poindexter
Chairman of Board of Directors Michigan Sugar Company	Rick Gerstenberger
CEO of Michigan Sugar Company	Mark Flegenheimer



Michigan Sugar Company
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