

Michigan Sugar Company

2008

Variety Results

Lee Hubbell

Jim Stewart

David Wishowski

Bay City, MI



TABLE of CONTENTS

Trial(s)	Page(s)	Trial(s)	Page(s)
<u>Table of Contents</u>	2-3	<u>Plant to Stand</u>	
<u>Location Information</u>	4	Average of 3 Locations	29
<u>OVT Location Notes</u>	5	Individual Locations	
<u>Variety Information</u>	6	Sandusky	30
<u>Variety Summary</u>		Ruth	31
Average of 2 Years	7	Kawkawlin	32
<u>Variety Approval System</u>		<u>Nurseries</u>	
Approval Standards	8-9	Cercospora	
Approved Varieties	10-12	Average of 2 Locations	33
RWST Summary	13	Individual Locations	
RWSA Summary	14	Pigeon	34
Cercospora Summary	15	Saginaw	35
<u>Official Variety Trial</u>		Rhizoctonia	
Average of 6 Locations Sorted		Michigan Nurseries	
RWSA	16	Average of 2 Years	36
RWST	17	2008	37
Tons/Acre	18	USDA, Ft Collins, CO	
Sucrose %	19	Average of 2 Years	38
Purity %	20	2008	39
Emergence %	21	Nematode	40
Cercospora Resistance	22	Rhizomania, 2008	41
Individual Locations		Aphanomyces	
Pigeon	23	Average of 2 Years	42
Sandusky	24	2008	43
Quanicassee	25	Root Aphid	44
Frankenmuth	26		
Saginaw	27		
St. Louis	28		

TABLE of CONTENTS

Continued

<u>Trial(s)</u>	<u>Page(s)</u>	<u>Trial(s)</u>	<u>Page(s)</u>
<u>Sugarbeet Advancement</u>			
<u>Variety Trial</u>			
Ontario	45		
Sandusky	46		
Pigeon	47		
Ithaca	48		
Average of 4 Locations	49		
<u>Nematode Trials</u>			
Oilseed Radish- Unionville	50		
<u>Variety Resistance</u>			
Auburn	51		
Kawkawlin	52		
Bay County	53		
Auburn	54		
Sebewaing	55		
Pigeon	56		
Saginaw County	57		

Michigan Sugar Company
Official Variety Trials - 2008

General Trial Information

	<u>Breckenridge</u>	<u>Swan Creek</u>	<u>Quanicassee</u>	<u>Sandusky</u>	<u>Pigeon</u>	<u>Frankenmuth</u>
Grower	Bebow	Beet & Bean	Sylvester	Stoutenburg	Maust	Uebler
Trial Quality	Good	Good	Very Good	Very good	Very Good	Good
Planted	29-Apr	17-Apr	21-Apr	21-Apr	23-Apr	18-Apr
Harvested	19-Sep	23-Sep	22-Oct	2-Oct	24-Oct	26-Sep
Soil Type	Sandy Loam	Silty clay	Sandy loam	Sandy loam	Sandy loam	Sandy clay
Soil pH	7.8	8.1	7.9	7.1	7.8	7.3
Soil %OM	2.7	3.3	3.6	2.9	2.8	2.7
CEC meq/100 g	13.5	23.2	14.8	9.5	13.7	14.6
Phosphorus	Abv. Optimum	Abv. Optimum	Abv. Optimum	Abv. Optimum	Abv. Optimum	Abv. Optimum
Potassium	Optimum	Abv. Optimum	Optimum	Abv. Optimum	Optimum	Abv. Optimum
Magnesium	Abv. Optimum	Abv. Optimum	Abv. Optimum	Abv. Optimum	Abv. Optimum	Abv. Optimum
Manganese	Medium	High	Low	Medium	Medium	High
Boron	Low	Low	Medium	Low	Low/Medium	Low
Zinc	Medium	Low/Medium	Low/Medium	Medium	Medium	Medium
Nitrogen Added	89	125	91	105	0**	48

***Seasonal Rainfall**

	<u>Breckenridge</u>	<u>Swan Creek</u>	<u>Quanicassee</u>	<u>Sandusky</u>	<u>Pigeon</u>	<u>Frankenmuth</u>
April	1.38	2.02	1.44	1.60	1.79	1.50
May	1.17	1.13	1.15	2.60	1.86	1.41
June	3.75	3.88	5.39	4.64	5.19	3.20
July	2.30	3.94	4.86	2.00	4.00	3.85
August	1.20	2.10	3.78	4.20	3.82	2.15
September	5.45	5.09	5.24	9.10	4.94	6.24
October			2.12		1.98	
Total	15.25	18.16	23.98	24.14	23.58	18.35

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

** Previous crop alfalfa.

Official Variety Trial Notes

Location	Trial Quality	Planted	Harvested	Reps Used	Problems
Maust	Very Good	April 23	October 24	8	Alfalfa weeds
Stoutenburg	Very Good	April 21	October 2	8	
Sylvester	Very Good	April 21	October 22	8	
Uebler	Good	April 18	Sept. 26	8	Uneven emergence
Beet & Bean	Good	April 17	Sept. 23	8	Dry
Bebow	Good	April 29	Sept. 19	8	Very dry

Location	Rhizoctonia		Cercospora	
	Quadris	Control	Sprays	Control
Maust	Twice, 6 & 8 Leaf	Good	Three times	Very Good
Stoutenburg	Twice, 10 & 12 Leaf	Very Good	Twice	Very Good
Sylvester	Twice, 8 & 12 Leaf	Very Good	Three times	Good
Uebler	Twice, 8 & 10 Leaf	Good	Three times	Good
Beet & Bean	Twice, 8 & 10 Leaf	Very Good	Twice	Very Good
Bebow	Twice, 6 & 8 Leaf	Good	Twice	Good

Michigan Sugar Company 2008 Variety Entries

Variety Name	Ploidy	Commercially Prepared	RZOC	Root Aphids	RZOM	APH	Bio-tech	Other	Years In Test
Beta 5833R	Dip	Yes	X	X	X				6
Beta 5930R	Trip	Yes		X	X	X			4
Beta 1643N	Dip	Yes		X	X	X		NEM	3
Beta 5670R	Dip	No		X	X	X			1
BTS 17RR32	Dip	No		X	X	X	X		2
BTS 17RR62	Dip	No		X	X	X	X		2
BTS 18RR06	Dip	No		X	X	X	X		1
BTS 18RR16	Trip	No		X	X	X	X		1
BTS 18RR26	Trip	No		X	X	X	X		1
BTS 18RR36	Dip	No		X	X	X	X		1
BTS 18RR46	Dip	No		X	X	X	X	NEM	1
BTS 18RR66	Dip	No	X	X	X	X	X		1
Crystal R509	Dip	Yes	X	X	X				4
Crystal R689	Dip	No	X	X	X	X			1
Crystal RR827	Dip	No		X	X	X	X		2
Crystal RR808	Trip	No		X	X	X	X		1
Crystal RR824	Dip	No		X	X	X	X		1
Crystal RR840	Trip	No		X	X	X	X		1
Crystal RR848	Dip	No		X	X	X	X		1
Crystal RR898	Dip	No		X	X	X	X		1
Crystal RR877	Dip	No	X	X	X	X	X		1
HM 27RR	Dip	Yes	X	X	X	X	X		3
HM 28RR	Dip	Yes	X	X	X	X	X		3
HM 29RR	Dip	Yes	X	X	X	X	X		3
HM 9032RR	Dip	No		X	X	X	X		2
HM 9039RR	Dip	No	X	X	X	X	X		2
HM 9042RR	Dip	No	X	X	X	X	X		2
HM 9050RR	Dip	No		X	X	X	X		2
HM 9051RR	Dip	No		X	X	X	X		2
HM 9055RR	Dip	No		X	X	X	X		2
HM 9080RR	Dip	No	X	X	X	X	X		1
HM 9084RR	Dip	No	X	X	X	X	X		1
HM 9110RR	Dip	No	X	X	X	X	X		1
HM 9116RR	Dip	No		X	X	X	X	FUS	1
HM 9130RR	Dip	No		X	X	X	X		1
HM 9131RR	Dip	No	X	X	X	X	X	FUS	1
HM 9133RR	Dip	No		X	X	X	X	FUS	1
HM 9151RR	Dip	No		X	X	X	X		1
HM 2788NT	Dip	No		X	X	X		NEM	1
SX 1233	Dip	Yes		X	X	X			3
SX 1260RR	Dip	No		X	X	X	X		2
SX 1281RR	Dip	No		X	X		X		1
SX 1282RR	Dip	No		X	X		X	FUS	1
Crystal R442	Trip	Yes		X	X	X			5
HM 7172RZ	Dip	Yes	X	X	X	X			6
HM 2771RZ	Dip	Yes		X	X	X			8

Michigan Sugar Company
 Official Variety Trial
 Average of 2 Years Varieties Approved for Sale
 2008

		Nurseries														
		A Lower Number Indicates More Resistance														
Variety		RWSA	RWST	Tons/A	% Suc	% CJP	% Emerg	CLS	Root Aphid		Rhizoc- tonia		Aphano- myces		Rhizo- mania	
Fully Approved	Beta 5930R	7311	254.9	28.58	17.75	93.7	63.1	2.65	2.4	F	4.7	P	4.3	G-	5.2	F
	Beta 5833R	7154	246.6	28.83	16.96	94.4	63.5	3.19	1.7	G	3.6	G	4.3	G-	4.3	G
	SX 1233	7168	250.6	28.45	17.28	93.0	67.6	3.19	2.7	F-	5.1	P	4.2	G	4.2	G
	Crystal R509	7133	245.4	28.89	17.11	93.7	62.5	2.78	1.9	G	3.7	G	4.6	F+	4.6	G-
Limited Approval	SX 1260RR	7724	244.6	31.42	16.91	94.2	71.0	3.18	2.9	F-	4.6	P	4.1	G	3.8	E
	HM 9055RR	7544	248.5	30.24	17.19	94.1	64.2	3.12	3.0	F-	4.8	P	4.0	G	4.8	G-
	HM 9050RR	7498	252.4	29.58	17.51	93.8	64.7	2.73	2.1	G-	4.6	P	4.3	G-	5.0	F
	HM 9042RR	7410	251.7	29.31	17.47	93.8	62.3	2.72	2.4	F	4.3	F	4.1	G	5.2	F
	HM 9051RR	7285	252.0	28.74	17.43	94.0	59.7	2.75	2.4	F	5.0	P	5.0	F	5.0	F
<u>Speciality Variety**</u>																
High Sugar	Crystal RR827*	8267	257.7	31.83	17.76	94.1	65.7	4.13	1.6	E	5.5	P	4.0	G	4.9	G-
High Sugar	BTS 17RR32*	8226	252.2	32.47	17.30	94.4	70.8	3.75	1.5	E	5.0	P	4.0	G	4.2	G
Nematode	Beta 1643N*	7912	250.4	31.41	17.25	94.2	66.2	3.68	1.8	G	5.4	P	3.7	G	4.7	G-
High Sugar	BTS 17RR62*	7830	256.4	30.20	17.59	94.3	58.7	3.88	1.6	E	4.9	P	5.2	P	4.1	G
Roundup	HM 28RR	7638	241.7	31.47	16.75	94.0	71.9	3.11	2.5	F	4.1	F	4.2	G	4.1	G
Roundup	HM 27RR	7489	243.5	30.64	16.95	93.8	70.1	3.15	2.4	F	4.0	G	4.3	G-	4.1	G
Roundup	HM 29RR	7485	243.4	30.59	16.90	93.9	65.8	3.19	2.1	G-	4.2	F	4.3	G-	3.8	E
	LSD (P=.05)	613.8	6.65	2.08	0.35	NS	NS	0.34								
	CV	3.8	1.27	3.25	0.98	0.47	6.48	5.00								
	Means	3081.4	97.40	30.36	6.77	36.63	26.43	1.68								

** Crystal RR824* was also given Special Approval but has only been tested one year.

* There will be an addendum to be signed by growers relating to Cercospora & Rhizoctonia control.

Michigan Sugar Company

Sugarbeet Variety Approval System for 2008

Revised 1/11/07

Objective:

The purpose of the Official Variety Trials (OVT) testing program is to identify and evaluate improved sugarbeet varieties for Michigan Sugar Company growers. The variety approval process is based primarily on a mathematical system which measures the yield, quality, storability and Cercospora leafspot levels of new varieties. Minimum levels for RWSA, RWST, RWST-Storage and Cercospora leafspot tolerance must be met before a variety will be fully approved. Additional testing is conducted to measure other varietal traits such as emergence and tolerance to pests and diseases. No variety may be sold or given away unless approved by Michigan Sugar Company.

The yield, quality, storability and Cercospora tolerance of new varieties are measured against approved “check varieties. The current check varieties for yield, quality, storability and Cercospora are: **HM 2771Rz, Crystal R442, Beta 5833R, and HM 7172Rz.**

The Performance Standards used to approve a variety will include:

RWSA: 99.4% or more of the check varieties.

RWST: 99.7% or more of the check varieties.

RWST-Storage: 92.7% or more of the check varieties.

Cercospora Leafspot: 113.7% or less of the check varieties.

These performance standards are based on an average of the most recent 3 years of data.

Limited Approval (5%):

After 2 consecutive years of successful testing (performance standards passed) a variety will be advanced to Limited Approval (5%). This is intended to be a test marketing period and the variety can be planted on up to 5% of the Co-op’s acreage. Commercially processed seed must be used. If the OVT performance standards are maintained during this test marketing period the variety will become fully approved.

Limited Approval (10%):

If the performance standards are maintained after 3 consecutive years of successful testing, but the variety was not test marketed or if commercial seed is not available after 2 years of successful testing, the variety will be advanced to Limited Approval (10%). Varieties in this category can be planted on up to 10% of the Co-op’s acreage. If the performance standards are maintained during this test marketing period and commercial plantings were successful the variety will become fully approved.

Full Approval:

After 3 consecutive years of testing a variety will be advanced from Limited Approval to Full Approval assuming the 3 year OVT data averages pass all requirements and the variety has been test marketed and commercial seed is available. Fully approved varieties do not have limits on the amount of seed that can be sold or planted. A fully approved variety must maintain a leafspot level of 118.7% or less or it will be disapproved. If a variety's 3 year leafspot level exceeds the limit of 118.7% it will be disapproved and put on a 2 year plant out. A disapproved variety can be reinstated if the latest 3 year average meets the leafspot level.

If a fully approved variety is not submitted for testing, it will be disapproved and put on a 2 year plant out.

Specialty Approval:

Varieties may be approved as "Specialty Varieties" if they do not meet the performance standards but have other desirable characteristics such as insect or disease tolerance. To be considered for a specialty approval the variety must be designated by the seed company as having the specialty trait and must be successfully tested by the Company in an approved nursery. Commercial seed must also be available. If approved by the Seed Committee, the variety can be sold for 2 years after approval and the seed committee will determine the quantity of seed that can be sold each year.

Seed Committee:

The Michigan Sugar Company Seed Committee is comprised of the following members: 4 employees from the Agricultural Department, 3 members from the Board of Directors and 6 Grower members two from each growing districts. The chairman will be elected from the 6 Grower members. Each member on the Seed Committee has 1 vote.

Variety Approval and Policy Changes are Subject to Board of Director Approval

Michigan Sugar Company 2008 Variety Approval

Fully Approved Varieties for 2009

<u>Variety</u>	<u>RWST</u> <u>Need 98.7%</u>	<u>RWSA</u> <u>Need 96.4%</u>	<u>LEAFSPOT</u> <u>Need 113.7 or Less</u>
Beta 5833R	Yes 99.6	Yes 102.9	Yes 113.5
Beta 5930R	Yes 102.6	Yes 104.1	Yes 92.4
SX 1233*	Yes 101.4	Yes 101.0	Yes 111.1
Crystal 509*	Yes 98.9	Yes 100.9	Yes 100.8

*New Approvals for 2009

Limited Approval for 2009 (10%)

<u>Variety</u>	<u>RWST</u> <u>Need 98.7%</u>	<u>RWSA</u> <u>Need 96.4%</u>	<u>LEAFSPOT</u> <u>Need 113.7 or Less</u>
----------------	----------------------------------	----------------------------------	--

3rd Year Varieties Not Meeting Limited Approval

<u>Variety</u>	<u>RWST</u> <u>Need 98.7%</u>	<u>RWSA</u> <u>Need 96.4%</u>	<u>LEAFSPOT</u> <u>Need 113.7 or Less</u>
Beta 1643N	Yes 101.5	Yes 114.0	No 138.7
HM 27RR	No 97.6	Yes 106.4	Yes 109.6
HM 28RR	No 97.5	Yes 109.1	Yes 109.8
HM 29RR	No 97.6	Yes 106.8	Yes 112.4

Limited Approval for 2009 (5% Acreage)*

*5% Limit waived for 2009

<u>Variety</u>	<u>RWST</u> <u>Need 98.7%</u>	<u>RWSA</u> <u>Need 96.4%</u>	<u>LEAFSPOT</u> <u>Need 113.7 or Less</u>
HM 9050RR	Yes 102.0	Yes 107.2	Yes 95.7
HM 9042RR	Yes 101.7	Yes 106.0	Yes 95.5
HM 9051RR	Yes 101.8	Yes 103.9	Yes 96.5
HM 9055RR	Yes 100.4	Yes 107.8	Yes 109.6
SX 1260RR	Yes 98.8	Yes 110.5	Yes 111.6
HM 9039RR	Yes 99.4	Yes 109.3	Yes 110.4

2nd Year Varieties Not Meeting Limited Approval

<u>Variety</u>	<u>RWST</u> <u>Need 98.7%</u>	<u>RWSA</u> <u>Need 96.4%</u>	<u>LEAFSPOT</u> <u>Need 113.7 or Less</u>
BTS 17RR32	Yes 101.9	Yes 117.6	No 131.6
Crystal RR827	Yes 104.1	Yes 117.7	No 144.8
HM 9032RR	No 96.9	Yes 113.0	No 117.7
BTS 17RR62	Yes 103.6	Yes 111.3	No 136.0

Michigan Sugar Company 2008 Variety Approval

Special Approval for 2009

<u>Variety</u>	<u>RWST</u>		<u>RWSA</u>		<u>LEAFSPOT</u>	
	<u>Need 98.7%</u>		<u>Need 96.4%</u>		<u>Need 113.7 or Less</u>	
Beta 1643N	Yes	101.5	Yes	114.0	No	138.7
HM 27RR	No	97.6	Yes	106.4	Yes	109.6
HM 28RR	No	97.5	Yes	109.1	Yes	109.8
HM 29RR	No	97.6	Yes	106.8	Yes	112.4
BTS 17RR32	Yes	101.9	Yes	117.6	No	131.6
BTS 17RR62	Yes	103.6	Yes	111.3	No	136.0
Crystal RR827	Yes	104.1	Yes	117.7	No	144.8
<u>Variety</u>	<u>Need 99.7%</u>		<u>Need 97.4%</u>		<u>Need 113.7 or Less</u>	
Crystal RR824	Yes	104.4	Yes	117.8	No	146.9

First Year Varieties

<u>Variety</u>	<u>RWST</u>		<u>RWSA</u>		<u>LEAFSPOT</u>	
	<u>Need 99.7%</u>		<u>Need 99.4%</u>		<u>Need 113.7 or Less</u>	
HM 9110RR	Yes	101.0	Yes	110.4	Yes	108.8
Crystal RR840	Yes	101.8	Yes	108.6	Yes	88.1
HM 9133RR	Yes	100.8	Yes	108.3	Yes	101.9
HM 9116RR	Yes	101.2	Yes	108.2	Yes	104.7
HM 9131RR	Yes	101.9	Yes	108.1	Yes	97.2
SX 1281RR	Yes	102.0	Yes	106.5	Yes	102.2
BTS 18RR26	Yes	103.4	Yes	106.4	Yes	79.3
Crystal RR824	Yes	104.4	Yes	117.8	No	146.9
Crystal RR808	Yes	107.1	Yes	117.3	No	127.3
BTS 18RR66	No	94.1	Yes	113.4	No	137.3
HM 9080RR	Yes	99.9	Yes	111.3	No	114.6
Crystal RR877	No	93.8	Yes	111.1	No	127.9
BTS 18RR16	No	99.3	Yes	110.5	Yes	83.1
BTS 18RR46	No	98.7	Yes	110.4	No	130.9
BTS 18RR06	Yes	102.7	Yes	110.3	No	119.4
BTS 18RR36	Yes	102.2	Yes	109.2	No	151.9
SX 1282 RR	No	98.5	Yes	108.6	No	118.0
Beta 5670R	No	98.9	Yes	107.5	No	124.1
HM 9151RR	No	96.5	Yes	107.4	Yes	111.1
Crystal R689	No	95.6	Yes	107.3	No	131.9
Crystal RR848	Yes	102.3	Yes	106.6	No	139.8
Crystal RR898	Yes	102.7	Yes	105.0	No	129.9
HM 9084RR	No	96.6	Yes	104.7	No	118.0
HM 9130RR	No	96.9	Yes	101.8	No	134.4
HM 2788NT	No	87.7	No	94.7	Yes	97.0

MICHIGAN SUGAR COMPANY

Approval of Seed Varieties for the 2009 Crop

The Seed Committee and Board of Michigan Sugar Company approved quantities of seed for commercial planting of the following varieties for the 2009 crop:

Fully Approved Varieties

(Unlimited Quantities)

	<u>Until 2010</u>		<u>Until 2009</u>
Beta 5833R	Beta 5411R*	Crystal 271*	HM 2761RZ**
Beta 5930R	Beta 5451*	Crystal 963*	HM 2763RZ**
SX 1233	Crystal R442*	Crystal 355*	HM 2767**
Crystal R509	HM 7172 Rz*		SX Prompt**
			Beta 5310**
			HM 2771RZ**

Specialty Approved Varieties

(Limited Quantities)

	<u>Units</u>	<u>Specialty</u>
Beta 1643N*	Unlimited	Nematode
HM 27RR	Unlimited	Roundup
HM 28RR	Unlimited	Roundup
HM 29RR	Unlimited	Roundup
BTS 17RR32*	15,000	High Sugar
BTS 17RR62*	15,000	High Sugar
Crystal RR827*	15,000	High Sugar
Crystal RR824*	8,000	High Sugar

*Last year to plant is 2010

**Last year to plant is 2009

*There will be an addendum to be signed by growers relating to Cercospora & Rhizoctonia control.

Limited Approved Varieties

(Quantities limited to 10% of acres)

Limited Approved Varieties

HM 9050RR	HM 9055RR
HM 9042RR	SX 1260RR
HM 9051RR	HM 9039RR

Committee Members Approval:

The meeting was held in Bay City, Michigan on November 25, 2008.

Paul Pfenninger - VP Agriculture

Lee Hubbell - Research Agronomist

Clay Crumbaugh, Chairman - West District

Tom Wadsworth - Board of Directors

Lee Butts - Central District

Scott Shaw - East District

Mark Lumley - East District

Jim Stewart - Director of Research

Corey Guza - Agronomist

Richard Sylvester - Board of Directors

Tom Gettel - Board of Directors

Doug Vader - Central District

Steve Hoard - West District



Corporate Agricultural Office
2600 S. Euclid Avenue
Bay City, Michigan 48706
Telephone (989) 686-0161 - Fax (989) 671-3714

Michigan Sugar Company - Variety Approval RWST Summary 2008

Variety	2008		2007		2006		2 Yr	3 Yr
	Lbs	%ck	Lbs	%ck	Lbs	%ck	Avg	Avg
<i>4 Var Check</i>	248.32	100.0	246.75	100.0	252.72	100.0	100.0	100.0
<i>Beta 5833R</i>	247.3	99.6	245.9	99.7	251.8	99.6	99.6	99.6
<i>HM 2771Rz</i>	254.2	102.4	252.7	102.4	257.0	101.7	102.4	102.2
<i>HM 7172Rz</i>	244.1	98.3	243.4	98.7	245.6	97.2	98.5	98.1
Crystal R509	250.7	100.9	240.1	97.3	248.6	98.4	99.1	98.9
Beta 5930R	255.0	102.7	254.8	103.3	257.3	101.8	103.0	102.6
SX 1233	254.8	102.6	246.4	99.9	257.4	101.9	101.2	101.4
Beta 1643N*	250.0	100.7	250.9	101.7	258.2	102.2	101.2	101.5
HM 27RR*	250.3	100.8	236.8	96.0	242.8	96.1	98.4	97.6
HM 28RR*	243.4	98.0	240.0	97.3	245.8	97.3	97.6	97.5
HM 29RR*	246.6	99.3	240.3	97.4	243.2	96.2	98.3	97.6
<i>Crystal R442</i>	247.7	99.7	244.9	99.2	256.5	101.5	99.5	100.2

Others Tested - 2008 & 2007

	2008		2007		2 Yr
	Lbs	%ck	Lbs	%ck	Avg
BTS 17RR32	256.9	103.4	247.5	100.3	101.9
HM 9032RR	240.3	96.8	239.4	97.0	96.9
Crystal RR827	262.1	105.6	253.2	102.6	104.1
SX 1260RR	245.3	98.8	243.8	98.8	98.8
HM 9039RR	249.3	100.4	243.0	98.5	99.4
HM 9055RR	250.3	100.8	246.7	100.0	100.4
HM 9050RR	254.5	102.5	250.2	101.4	102.0
HM 9042RR	251.8	101.4	251.6	102.0	101.7
BTS 17RR62	261.0	105.1	251.7	102.0	103.6
HM 9051RR	257.8	103.8	246.2	99.8	101.8

First Year Varieties- 2008

	2008			2008	
	Lbs	%ck		Lbs	%ck
Crystal RR824	259.3	104.4	HM 9116RR	251.4	101.2
Crystal RR808	265.8	107.1	HM 9131RR	253.1	101.9
BTS 18RR66	233.8	94.1	Beta 5670R	245.5	98.9
HM 9080RR	248.0	99.9	HM 9151RR	239.8	96.5
Crystal RR877	232.8	93.8	Crystal R689	237.3	95.6
BTS 18RR16	246.6	99.3	Crystal RR848	254.0	102.3
BTS 18RR46	245.0	98.7	SX 1281RR	253.4	102.0
HM 9110RR	250.7	101.0	BTS 18RR26	256.7	103.4
BTS 18RR06	255.2	102.7	Crystal RR898	255.0	102.7
BTS 18RR36	253.7	102.2	HM 9084RR	239.9	96.6
Crystal RR840	252.8	101.8	HM 9130RR	240.7	96.9
SX 1282 RR	244.5	98.5	HM 2788NT	217.8	87.7
HM 9133RR	250.2	100.8			

* In 2006 these varieties were tested in a separate trial from the Official Variety Trial and were factored to be comparable.

Michigan Sugar Company - Variety Approval RWSA Summary 2008

Variety	2008		2007		2006		2 Yr	3 Yr
	Lbs	%ck	Lbs	%ck	Lbs	%ck	Avg	Avg
<i>4 Var Check</i>	7554.0	100.0	6446.1	100.0	7674.9	100.0	100.0	100.0
<i>Beta 5833R</i>	7749	102.6	6559	101.8	8020	104.5	102.2	102.9
<i>HM 2771Rz</i>	7258	96.1	6343	98.4	7437	96.9	97.2	97.1
<i>HM 7172Rz</i>	7453	98.7	6169	95.7	7343	95.7	97.2	96.7
Crystal R509	8003	106.0	6263	97.2	7652	99.7	101.6	100.9
Beta 5930R	7727	102.3	6895	107.0	7917	103.2	104.6	104.1
SX 1233	7837	103.8	6499	100.8	7552	98.4	102.3	101.0
Beta 1643N*	8735	115.6	7089	110.0	8931	116.4	112.8	114.0
HM 27RR*	8204	108.6	6774	105.1	8103	105.6	106.9	106.4
HM 28RR*	8191	108.4	7086	109.9	8364	109.0	109.2	109.1
HM 29RR*	8241	109.1	6728	104.4	8209	107.0	106.7	106.8
<i>Crystal R442</i>	7755	102.7	6713	104.1	7900	102.9	103.4	103.2

Others Tested - 2008 & 2007

	2008		2007		2 Yr
	Lbs	%ck	Lbs	%ck	Avg
BTS 17RR32	8787	116.3	7666	118.9	117.6
HM 9032RR	8226	108.9	7549	117.1	113.0
Crystal RR827	9225	122.1	7309	113.4	117.7
SX 1260RR	8207	108.7	7241	112.3	110.5
HM 9039RR	8150	107.9	7137	110.7	109.3
HM 9055RR	8073	106.9	7014	108.8	107.8
HM 9050RR	8021	106.2	6974	108.2	107.2
HM 9042RR	7913	104.8	6907	107.2	106.0
BTS 17RR62	8977	118.8	6683	103.7	111.3
HM 9051RR	8036	106.4	6534	101.4	103.9

First Year Varieties- 2008

	2008			2008	
	Lbs	%ck		Lbs	%ck
Crystal RR824	8901	117.8	HM 9116RR	8175	108.2
Crystal RR808	8864	117.3	HM 9131RR	8167	108.1
BTS 18RR66	8569	113.4	Beta 5670R	8122	107.5
HM 9080RR	8406	111.3	HM 9151RR	8110	107.4
Crystal RR877	8389	111.1	Crystal R689	8104	107.3
BTS 18RR16	8345	110.5	Crystal RR848	8054	106.6
BTS 18RR46	8342	110.4	SX 1281RR	8045	106.5
HM 9110RR	8342	110.4	BTS 18RR26	8037	106.4
BTS 18RR06	8334	110.3	Crystal RR898	7930	105.0
BTS 18RR36	8249	109.2	HM 9084RR	7909	104.7
Crystal RR840	8204	108.6	HM 9130RR	7689	101.8
SX 1282 RR	8201	108.6	HM 2788NT	7155	94.7
HM 9133RR	8177	108.3			

* In 2006 these varieties were tested in a separate trial from the Official Variety Trial and were factored to be comparable.

Michigan Sugar Company - Variety Approval Cercospora Leaf Spot Summary 2008

Variety	2008		2007		2006		2 Yr	3 Yr
	<u>0-9</u>	<u>%ck</u>	<u>0-9</u>	<u>%ck</u>	<u>0-9</u>	<u>%ck</u>	<u>Avg</u>	<u>Avg</u>
<i>4 Var Check</i>	2.876	100.0	2.819	100.0	3.338	100.0	100.0	100.0
<i>Beta 5833R</i>	3.28	114.0	3.10	109.9	3.89	116.6	112.0	113.5
<i>HM 2771Rz</i>	2.94	102.0	2.79	99.1	3.23	96.8	100.6	99.3
<i>HM 7172Rz</i>	2.85	98.9	2.91	103.1	3.30	98.9	101.0	100.3
Crystal R509	2.74	95.3	2.81	99.8	3.58	107.3	97.5	100.8
Beta 5930R	2.55	88.7	2.75	97.5	3.04	91.1	93.1	92.4
SX 1233	3.30	114.7	3.08	109.1	3.65	109.4	111.9	111.1
Beta 1643N	3.39	117.9	3.97	140.9	5.25	157.3	129.4	138.7
HM 27RR	3.21	111.4	3.08	109.4	3.60	107.9	110.4	109.6
HM 28RR	2.94	102.0	3.28	116.3	3.71	111.2	109.2	109.8
HM 29RR	3.09	107.4	3.28	116.3	3.79	113.6	111.9	112.4
<i>Crystal 442R</i>	2.45	85.0	2.48	87.9	2.93	87.8	86.5	86.9

Others Tested - 2008 & 2007

	2008		2007		2 Yr
	<u>0-9</u>	<u>%ck</u>	<u>0-9</u>	<u>%ck</u>	<u>Avg</u>
BTS 17RR32	3.76	130.6	3.74	132.6	131.6
HM 9032RR	3.28	114.0	3.42	121.4	117.7
Crystal RR827	3.98	138.2	4.27	151.4	144.8
SX 1260RR	3.13	108.8	3.22	114.3	111.6
HM 9039RR	3.12	108.5	3.17	112.4	110.4
HM 9055RR	2.99	103.8	3.25	115.3	109.6
HM 9050RR	2.60	90.2	2.86	101.3	95.7
HM 9042RR	2.80	97.4	2.64	93.7	95.5
BTS 17RR62	4.01	139.2	3.74	132.7	136.0
HM 9051RR	2.64	91.8	2.85	101.2	96.5

First Year Varieties- 2008

	2008			2008	
	<u>0-9</u>	<u>%ck</u>		<u>0-9</u>	<u>%ck</u>
Crystal RR824	4.23	146.9	HM 9116RR	3.01	104.7
Crystal RR808	3.66	127.3	HM 9131RR	2.80	97.2
BTS 18RR66	3.95	137.3	Beta 5670R	3.57	124.1
HM 9080RR	3.30	114.6	HM 9151RR	3.20	111.1
Crystal RR877	3.68	127.9	Crystal R689	3.80	131.9
BTS 18RR16	2.39	83.1	Crystal RR848	4.02	139.8
BTS 18RR46	3.77	130.9	SX 1281RR	2.94	102.2
HM 9110RR	3.13	108.8	BTS 18RR26	2.28	79.3
BTS 18RR06	3.44	119.4	Crystal RR898	3.74	129.9
BTS 18RR36	4.37	151.9	HM 9084RR	3.40	118.0
Crystal RR840	2.54	88.1	HM 9130RR	3.87	134.4
SX 1282 RR	3.40	118.0	HM 2788NT	2.79	97.0
HM 9133RR	2.93	101.9			

Michigan Sugar Company
Official Variety Trial - 2008

Average of 6 Locations
Sorted by RWSA

ID#	Variety	RWSA	RWST	Tons/A	% Suc	% CJP	Emerg %	CLS
20	Crystal RR827	9225	262.1	34.82	17.89	94.49	63.8	4.0
13	BTS 17RR62	8977	261.0	34.03	17.68	94.93	62.7	4.0
22	Crystal RR824	8901	259.3	33.88	17.59	94.90	62.7	4.2
21	Crystal RR808	8864	265.8	33.02	18.07	94.70	69.7	3.7
12	BTS 17RR32	8787	256.9	33.85	17.44	94.89	70.8	3.8
3	Beta 1643N	8735	250.0	34.59	17.12	94.47	56.0	3.4
19	BTS 18RR66	8569	233.8	36.43	16.11	94.51	49.4	4.0
36	HM 9080RR	8406	248.0	33.68	16.97	94.56	61.0	3.3
26	Crystal RR877	8389	232.8	35.75	16.12	94.25	67.5	3.7
15	BTS 18RR16	8345	246.6	33.41	16.91	94.50	54.6	2.4
18	BTS 18RR46	8342	245.0	33.56	16.76	94.61	71.7	3.8
38	HM 9110RR	8342	250.7	32.98	17.20	94.46	59.8	3.1
14	BTS 18RR06	8334	255.2	32.32	17.27	95.06	67.6	3.4
17	BTS 18RR36	8249	253.7	32.08	17.35	94.54	70.4	4.4
29	HM 29RR	8241	246.6	33.25	16.90	94.50	64.3	3.1
30	HM 9032RR	8226	240.3	33.95	16.62	94.20	64.4	3.3
44	SX 1260RR	8207	245.3	33.18	16.83	94.55	68.9	3.1
27	HM 27RR	8204	250.3	32.66	17.20	94.39	67.6	3.2
23	Crystal RR840	8204	252.8	32.17	17.34	94.42	43.8	2.5
46	SX 1282 RR	8201	244.5	33.30	16.79	94.50	67.1	3.4
28	HM 28RR	8191	243.4	33.39	16.73	94.42	71.2	2.9
42	HM 9133RR	8177	250.2	32.44	17.21	94.33	66.6	2.9
39	HM 9116RR	8175	251.4	32.21	17.24	94.46	60.7	3.0
41	HM 9131RR	8167	253.1	32.04	17.39	94.35	69.4	2.8
31	HM 9039RR	8150	249.3	32.59	17.13	94.35	72.3	3.1
4	Beta 5670R	8122	245.5	32.78	17.03	93.94	74.5	3.6
43	HM 9151RR	8110	239.8	33.58	16.64	93.96	67.8	3.2
6	Crystal R689	8104	237.3	33.79	16.35	94.40	72.2	3.8
35	HM 9055RR	8073	250.3	32.01	17.17	94.43	63.9	3.0
24	Crystal RR848	8054	254.0	31.42	17.32	94.66	69.4	4.0
45	SX 1281RR	8045	253.4	31.48	17.29	94.68	65.2	2.9
16	BTS 18RR26	8037	256.7	31.00	17.63	94.31	64.3	2.3
34	HM 9051RR	8036	257.8	30.96	17.55	94.72	56.7	2.6
33	HM 9050RR	8021	254.5	31.24	17.48	94.27	65.3	2.6
5	Crystal R509	8003	250.7	31.68	17.22	94.30	59.7	2.7
25	Crystal RR898	7930	255.0	30.74	17.34	94.83	75.1	3.7
32	HM 9042RR	7913	251.8	31.11	17.36	94.12	62.1	2.8
37	HM 9084RR	7909	239.9	32.78	16.59	94.22	62.7	3.4
8	SX 1233	7837	254.8	30.57	17.39	92.27	64.5	3.3
9	Crystal R442	7755	247.7	30.97	17.12	94.09	64.2	2.5
1	Beta 5833R	7749	247.3	31.08	16.85	94.85	58.6	3.3
2	Beta 5930R	7727	255.0	30.13	17.61	94.06	58.5	2.6
40	HM 9130RR	7689	240.7	31.73	16.46	94.71	56.8	3.9
10	HM 7172Rz	7453	244.1	30.38	16.95	93.91	68.4	2.9
11	HM 2771Rz	7258	254.2	28.28	17.27	94.87	69.5	2.9
7	HM 2788NT	7155	217.8	32.50	15.32	93.71	69.4	2.8
LSD (P=.05)		352.0	6.74	1.19	0.38	0.97	3.51	0.66
CV		3.8	2.39	3.24	1.96	0.91	4.80	10.02
Grand Mean		8164.9	249.04	32.52	17.08	94.41	64.62	3.24

Michigan Sugar Company
Official Variety Trial - 2008

Average of 6 Locations
Sorted by RWST

ID#	Variety	RWSA	RWST	Tons/A	% Suc	% CJP	Emerg %	CLS
21	Crystal RR808	8864	265.8	33.02	18.07	94.70	69.7	3.7
20	Crystal RR827	9225	262.1	34.82	17.89	94.49	63.8	4.0
13	BTS 17RR62	8977	261.0	34.03	17.68	94.93	62.7	4.0
22	Crystal RR824	8901	259.3	33.88	17.59	94.90	62.7	4.2
34	HM 9051RR	8036	257.8	30.96	17.55	94.72	56.7	2.6
12	BTS 17RR32	8787	256.9	33.85	17.44	94.89	70.8	3.8
16	BTS 18RR26	8037	256.7	31.00	17.63	94.31	64.3	2.3
14	BTS 18RR06	8334	255.2	32.32	17.27	95.06	67.6	3.4
25	Crystal RR898	7930	255.0	30.74	17.34	94.83	75.1	3.7
2	Beta 5930R	7727	255.0	30.13	17.61	94.06	58.5	2.6
8	SX 1233	7837	254.8	30.57	17.39	92.27	64.5	3.3
33	HM 9050RR	8021	254.5	31.24	17.48	94.27	65.3	2.6
11	HM 2771Rz	7258	254.2	28.28	17.27	94.87	69.5	2.9
24	Crystal RR848	8054	254.0	31.42	17.32	94.66	69.4	4.0
17	BTS 18RR36	8249	253.7	32.08	17.35	94.54	70.4	4.4
45	SX 1281RR	8045	253.4	31.48	17.29	94.68	65.2	2.9
41	HM 9131RR	8167	253.1	32.04	17.39	94.35	69.4	2.8
23	Crystal RR840	8204	252.8	32.17	17.34	94.42	43.8	2.5
32	HM 9042RR	7913	251.8	31.11	17.36	94.12	62.1	2.8
39	HM 9116RR	8175	251.4	32.21	17.24	94.46	60.7	3.0
38	HM 9110RR	8342	250.7	32.98	17.20	94.46	59.8	3.1
5	Crystal R509	8003	250.7	31.68	17.22	94.30	59.7	2.7
35	HM 9055RR	8073	250.3	32.01	17.17	94.43	63.9	3.0
27	HM 27RR	8204	250.3	32.66	17.20	94.39	67.6	3.2
42	HM 9133RR	8177	250.2	32.44	17.21	94.33	66.6	2.9
3	Beta 1643N	8735	250.0	34.59	17.12	94.47	56.0	3.4
31	HM 9039RR	8150	249.3	32.59	17.13	94.35	72.3	3.1
36	HM 9080RR	8406	248.0	33.68	16.97	94.56	61.0	3.3
9	Crystal R442	7755	247.7	30.97	17.12	94.09	64.2	2.5
1	Beta 5833R	7749	247.3	31.08	16.85	94.85	58.6	3.3
15	BTS 18RR16	8345	246.6	33.41	16.91	94.50	54.6	2.4
29	HM B829RR	8241	246.6	33.25	16.90	94.50	64.3	3.1
4	Beta 5670R	8122	245.5	32.78	17.03	93.94	74.5	3.6
44	SX 1260RR	8207	245.3	33.18	16.83	94.55	68.9	3.1
18	BTS 18RR46	8342	245.0	33.56	16.76	94.61	71.7	3.8
46	SX 1282 RR	8201	244.5	33.30	16.79	94.50	67.1	3.4
10	HM 7172Rz	7453	244.1	30.38	16.95	93.91	68.4	2.9
28	HM 28RR	8191	243.4	33.39	16.73	94.42	71.2	2.9
40	HM 9130RR	7689	240.7	31.73	16.46	94.71	56.8	3.9
30	HM 9032RR	8226	240.3	33.95	16.62	94.20	64.4	3.3
37	HM 9084RR	7909	239.9	32.78	16.59	94.22	62.7	3.4
43	HM 9151RR	8110	239.8	33.58	16.64	93.96	67.8	3.2
6	Crystal R689	8104	237.3	33.79	16.35	94.40	72.2	3.8
19	BTS 18RR66	8569	233.8	36.43	16.11	94.51	49.4	4.0
26	Crystal RR877	8389	232.8	35.75	16.12	94.25	67.5	3.7
7	HM 2788NT	7155	217.8	32.50	15.32	93.71	69.4	2.8
LSD (P=.05)		352.0	6.74	1.19	0.38	0.97	3.51	0.66
CV		3.8	2.39	3.24	1.96	0.91	4.80	10.02
Grand Mean		8164.9	249.04	32.52	17.08	94.41	64.62	3.24

Michigan Sugar Company
Official Variety Trial - 2008

Average of 6 Locations
Sorted by Tons/Acre

ID#	Variety	RWSA	RWST	Tons/A	% Suc	% CJP	Emerg %	CLS
19	BTS 18RR66	8569	233.8	36.43	16.11	94.51	49.4	4.0
26	Crystal RR877	8389	232.8	35.75	16.12	94.25	67.5	3.7
20	Crystal RR827	9225	262.1	34.82	17.89	94.49	63.8	4.0
3	Beta 1643N	8735	250.0	34.59	17.12	94.47	56.0	3.4
13	BTS 17RR62	8977	261.0	34.03	17.68	94.93	62.7	4.0
30	HM 9032RR	8226	240.3	33.95	16.62	94.20	64.4	3.3
22	Crystal RR824	8901	259.3	33.88	17.59	94.90	62.7	4.2
12	BTS 17RR32	8787	256.9	33.85	17.44	94.89	70.8	3.8
6	Crystal R689	8104	237.3	33.79	16.35	94.40	72.2	3.8
36	HM 9080RR	8406	248.0	33.68	16.97	94.56	61.0	3.3
43	HM 9151RR	8110	239.8	33.58	16.64	93.96	67.8	3.2
18	BTS 18RR46	8342	245.0	33.56	16.76	94.61	71.7	3.8
15	BTS 18RR16	8345	246.6	33.41	16.91	94.50	54.6	2.4
28	HM 28RR	8191	243.4	33.39	16.73	94.42	71.2	2.9
46	SX 1282 RR	8201	244.5	33.30	16.79	94.50	67.1	3.4
29	HM 29RR	8241	246.6	33.25	16.90	94.50	64.3	3.1
44	SX 1260RR	8207	245.3	33.18	16.83	94.55	68.9	3.1
21	Crystal RR808	8864	265.8	33.02	18.07	94.70	69.7	3.7
38	HM 9110RR	8342	250.7	32.98	17.20	94.46	59.8	3.1
37	HM 9084RR	7909	239.9	32.78	16.59	94.22	62.7	3.4
4	Beta 5670R	8122	245.5	32.78	17.03	93.94	74.5	3.6
27	HM 27RR	8204	250.3	32.66	17.20	94.39	67.6	3.2
31	HM 9039RR	8150	249.3	32.59	17.13	94.35	72.3	3.1
7	HM 2788NT	7155	217.8	32.50	15.32	93.71	69.4	2.8
42	HM 9133RR	8177	250.2	32.44	17.21	94.33	66.6	2.9
14	BTS 18RR06	8334	255.2	32.32	17.27	95.06	67.6	3.4
39	HM 9116RR	8175	251.4	32.21	17.24	94.46	60.7	3.0
23	Crystal RR840	8204	252.8	32.17	17.34	94.42	43.8	2.5
17	BTS 18RR36	8249	253.7	32.08	17.35	94.54	70.4	4.4
41	HM 9131RR	8167	253.1	32.04	17.39	94.35	69.4	2.8
35	HM 9055RR	8073	250.3	32.01	17.17	94.43	63.9	3.0
40	HM 9130RR	7689	240.7	31.73	16.46	94.71	56.8	3.9
5	Crystal R509	8003	250.7	31.68	17.22	94.30	59.7	2.7
45	SX 1281RR	8045	253.4	31.48	17.29	94.68	65.2	2.9
24	Crystal RR848	8054	254.0	31.42	17.32	94.66	69.4	4.0
33	HM 9050RR	8021	254.5	31.24	17.48	94.27	65.3	2.6
32	HM 9042RR	7913	251.8	31.11	17.36	94.12	62.1	2.8
1	Beta 5833R	7749	247.3	31.08	16.85	94.85	58.6	3.3
16	BTS 18RR26	8037	256.7	31.00	17.63	94.31	64.3	2.3
9	Crystal R442	7755	247.7	30.97	17.12	94.09	64.2	2.5
34	HM 9051RR	8036	257.8	30.96	17.55	94.72	56.7	2.6
25	Crystal RR898	7930	255.0	30.74	17.34	94.83	75.1	3.7
8	SX 1233	7837	254.8	30.57	17.39	92.27	64.5	3.3
10	HM 7172Rz	7453	244.1	30.38	16.95	93.91	68.4	2.9
2	Beta 5930R	7727	255.0	30.13	17.61	94.06	58.5	2.6
11	HM 2771Rz	7258	254.2	28.28	17.27	94.87	69.5	2.9
LSD (P=.05)		352.0	6.74	1.19	0.38	0.97	3.51	0.66
CV		3.8	2.39	3.24	1.96	0.91	4.80	10.02
Grand Mean		8164.9	249.04	32.52	17.08	94.41	64.62	3.24

Michigan Sugar Company
Official Variety Trial - 2008

Average of 6 Locations
Sorted by Sucrose %

ID#	Variety	RWSA	RWST	Tons/A	% Suc	% CJP	Emerg %	CLS
21	Crystal RR808	8864	265.8	33.02	18.07	94.70	69.7	3.7
20	Crystal RR827	9225	262.1	34.82	17.89	94.49	63.8	4.0
13	BTS 17RR62	8977	261.0	34.03	17.68	94.93	62.7	4.0
16	BTS 18RR26	8037	256.7	31.00	17.63	94.31	64.3	2.3
2	Beta 5930R	7727	255.0	30.13	17.61	94.06	58.5	2.6
22	Crystal RR824	8901	259.3	33.88	17.59	94.90	62.7	4.2
34	HM 9051RR	8036	257.8	30.96	17.55	94.72	56.7	2.6
33	HM 9050RR	8021	254.5	31.24	17.48	94.27	65.3	2.6
12	BTS 17RR32	8787	256.9	33.85	17.44	94.89	70.8	3.8
41	HM 9131RR	8167	253.1	32.04	17.39	94.35	69.4	2.8
8	SX 1233	7837	254.8	30.57	17.39	92.27	64.5	3.3
32	HM 9042RR	7913	251.8	31.11	17.36	94.12	62.1	2.8
17	BTS 18RR36	8249	253.7	32.08	17.35	94.54	70.4	4.4
23	Crystal RR840	8204	252.8	32.17	17.34	94.42	43.8	2.5
25	Crystal RR898	7930	255.0	30.74	17.34	94.83	75.1	3.7
24	Crystal RR848	8054	254.0	31.42	17.32	94.66	69.4	4.0
45	SX 1281RR	8045	253.4	31.48	17.29	94.68	65.2	2.9
11	HM 2771Rz	7258	254.2	28.28	17.27	94.87	69.5	2.9
14	BTS 18RR06	8334	255.2	32.32	17.27	95.06	67.6	3.4
39	HM 9116RR	8175	251.4	32.21	17.24	94.46	60.7	3.0
5	Crystal R509	8003	250.7	31.68	17.22	94.30	59.7	2.7
42	HM 9133RR	8177	250.2	32.44	17.21	94.33	66.6	2.9
27	HM 27RR	8204	250.3	32.66	17.20	94.39	67.6	3.2
38	HM 9110RR	8342	250.7	32.98	17.20	94.46	59.8	3.1
35	HM 9055RR	8073	250.3	32.01	17.17	94.43	63.9	3.0
31	HM 9039RR	8150	249.3	32.59	17.13	94.35	72.3	3.1
9	Crystal R442	7755	247.7	30.97	17.12	94.09	64.2	2.5
3	Beta 1643N	8735	250.0	34.59	17.12	94.47	56.0	3.4
4	Beta 5670R	8122	245.5	32.78	17.03	93.94	74.5	3.6
36	HM 9080RR	8406	248.0	33.68	16.97	94.56	61.0	3.3
10	HM 7172Rz	7453	244.1	30.38	16.95	93.91	68.4	2.9
15	BTS 18RR16	8345	246.6	33.41	16.91	94.50	54.6	2.4
29	HM 29RR	8241	246.6	33.25	16.90	94.50	64.3	3.1
1	Beta 5833R	7749	247.3	31.08	16.85	94.85	58.6	3.3
44	SX 1260RR	8207	245.3	33.18	16.83	94.55	68.9	3.1
46	SX 1282 RR	8201	244.5	33.30	16.79	94.50	67.1	3.4
18	BTS 18RR46	8342	245.0	33.56	16.76	94.61	71.7	3.8
28	HM 28RR	8191	243.4	33.39	16.73	94.42	71.2	2.9
43	HM 9151RR	8110	239.8	33.58	16.64	93.96	67.8	3.2
30	HM 9032RR	8226	240.3	33.95	16.62	94.20	64.4	3.3
37	HM 9084RR	7909	239.9	32.78	16.59	94.22	62.7	3.4
40	HM 9130RR	7689	240.7	31.73	16.46	94.71	56.8	3.9
6	Crystal R689	8104	237.3	33.79	16.35	94.40	72.2	3.8
26	Crystal RR877	8389	232.8	35.75	16.12	94.25	67.5	3.7
19	BTS 18RR66	8569	233.8	36.43	16.11	94.51	49.4	4.0
7	HM 2788NT	7155	217.8	32.50	15.32	93.71	69.4	2.8
LSD (P=.05)		352.0	6.74	1.19	0.38	0.97	3.51	0.66
CV		3.8	2.39	3.24	1.96	0.91	4.80	10.02
Grand Mean		8164.9	249.04	32.52	17.08	94.41	64.62	3.24

Michigan Sugar Company
Official Variety Trial - 2008

Average of 6 Locations
Sorted by Clear Juice Purity %

ID#	Variety	RWSA	RWST	Tons/A	% Suc	% CJP	Emerg %	CLS
14	BTS 18RR06	8334	255.2	32.32	17.27	95.06	67.6	3.4
13	BTS 17RR62	8977	261.0	34.03	17.68	94.93	62.7	4.0
22	Crystal RR824	8901	259.3	33.88	17.59	94.90	62.7	4.2
12	BTS 17RR32	8787	256.9	33.85	17.44	94.89	70.8	3.8
11	HM 2771Rz	7258	254.2	28.28	17.27	94.87	69.5	2.9
1	Beta 5833R	7749	247.3	31.08	16.85	94.85	58.6	3.3
25	Crystal RR898	7930	255.0	30.74	17.34	94.83	75.1	3.7
34	HM 9051RR	8036	257.8	30.96	17.55	94.72	56.7	2.6
40	HM 9130RR	7689	240.7	31.73	16.46	94.71	56.8	3.9
21	Crystal RR808	8864	265.8	33.02	18.07	94.70	69.7	3.7
45	SX 1281RR	8045	253.4	31.48	17.29	94.68	65.2	2.9
24	Crystal RR848	8054	254.0	31.42	17.32	94.66	69.4	4.0
18	BTS 18RR46	8342	245.0	33.56	16.76	94.61	71.7	3.8
36	HM 9080RR	8406	248.0	33.68	16.97	94.56	61.0	3.3
44	SX 1260RR	8207	245.3	33.18	16.83	94.55	68.9	3.1
17	BTS 18RR36	8249	253.7	32.08	17.35	94.54	70.4	4.4
19	BTS 18RR66	8569	233.8	36.43	16.11	94.51	49.4	4.0
29	HM 29RR	8241	246.6	33.25	16.90	94.50	64.3	3.1
46	SX 1282 RR	8201	244.5	33.30	16.79	94.50	67.1	3.4
15	BTS 18RR16	8345	246.6	33.41	16.91	94.50	54.6	2.4
20	Crystal RR827	9225	262.1	34.82	17.89	94.49	63.8	4.0
3	Beta 1643N	8735	250.0	34.59	17.12	94.47	56.0	3.4
38	HM 9110RR	8342	250.7	32.98	17.20	94.46	59.8	3.1
39	HM 9116RR	8175	251.4	32.21	17.24	94.46	60.7	3.0
35	HM 9055RR	8073	250.3	32.01	17.17	94.43	63.9	3.0
28	HM 28RR	8191	243.4	33.39	16.73	94.42	71.2	2.9
23	Crystal RR840	8204	252.8	32.17	17.34	94.42	43.8	2.5
6	Crystal R689	8104	237.3	33.79	16.35	94.40	72.2	3.8
27	HM 27RR	8204	250.3	32.66	17.20	94.39	67.6	3.2
31	HM 9039RR	8150	249.3	32.59	17.13	94.35	72.3	3.1
41	HM 9131RR	8167	253.1	32.04	17.39	94.35	69.4	2.8
42	HM 9133RR	8177	250.2	32.44	17.21	94.33	66.6	2.9
16	BTS 18RR26	8037	256.7	31.00	17.63	94.31	64.3	2.3
5	Crystal R509	8003	250.7	31.68	17.22	94.30	59.7	2.7
33	HM 9050RR	8021	254.5	31.24	17.48	94.27	65.3	2.6
26	Crystal RR877	8389	232.8	35.75	16.12	94.25	67.5	3.7
37	HM 9084RR	7909	239.9	32.78	16.59	94.22	62.7	3.4
30	HM 9032RR	8226	240.3	33.95	16.62	94.20	64.4	3.3
32	HM 9042RR	7913	251.8	31.11	17.36	94.12	62.1	2.8
9	Crystal R442	7755	247.7	30.97	17.12	94.09	64.2	2.5
2	Beta 5930R	7727	255.0	30.13	17.61	94.06	58.5	2.6
43	HM 9151RR	8110	239.8	33.58	16.64	93.96	67.8	3.2
4	Beta 5670R	8122	245.5	32.78	17.03	93.94	74.5	3.6
10	HM 7172Rz	7453	244.1	30.38	16.95	93.91	68.4	2.9
7	HM 2788NT	7155	217.8	32.50	15.32	93.71	69.4	2.8
8	SX 1233	7837	254.8	30.57	17.39	92.27	64.5	3.3
LSD (P=.05)		352.0	6.74	1.19	0.38	0.97	3.51	0.66
CV		3.8	2.39	3.24	1.96	0.91	4.80	10.02
Grand Mean		8164.9	249.04	32.52	17.08	94.41	64.62	3.24

Michigan Sugar Company
Official Variety Trial - 2008

Average of 6 Locations
Sorted by Emergence %

ID#	Variety	RWSA	RWST	Tons/A	% Suc	% CJP	Emerg %	CLS
25	Crystal RR898	7930	255.0	30.74	17.34	94.83	75.1	3.7
4	Beta 5670R	8122	245.5	32.78	17.03	93.94	74.5	3.6
31	HM 9039RR	8150	249.3	32.59	17.13	94.35	72.3	3.1
6	Crystal R689	8104	237.3	33.79	16.35	94.40	72.2	3.8
18	BTS 18RR46	8342	245.0	33.56	16.76	94.61	71.7	3.8
28	HM 28RR	8191	243.4	33.39	16.73	94.42	71.2	2.9
12	BTS 17RR32	8787	256.9	33.85	17.44	94.89	70.8	3.8
17	BTS 18RR36	8249	253.7	32.08	17.35	94.54	70.4	4.4
21	Crystal RR808	8864	265.8	33.02	18.07	94.70	69.7	3.7
11	HM 2771Rz	7258	254.2	28.28	17.27	94.87	69.5	2.9
41	HM 9131RR	8167	253.1	32.04	17.39	94.35	69.4	2.8
24	Crystal RR848	8054	254.0	31.42	17.32	94.66	69.4	4.0
7	HM 2788NT	7155	217.8	32.50	15.32	93.71	69.4	2.8
44	SX 1260RR	8207	245.3	33.18	16.83	94.55	68.9	3.1
10	HM 7172Rz	7453	244.1	30.38	16.95	93.91	68.4	2.9
43	HM 9151RR	8110	239.8	33.58	16.64	93.96	67.8	3.2
27	HM 27RR	8204	250.3	32.66	17.20	94.39	67.6	3.2
14	BTS 18RR06	8334	255.2	32.32	17.27	95.06	67.6	3.4
26	Crystal RR877	8389	232.8	35.75	16.12	94.25	67.5	3.7
46	SX 1282 RR	8201	244.5	33.30	16.79	94.50	67.1	3.4
42	HM 9133RR	8177	250.2	32.44	17.21	94.33	66.6	2.9
33	HM 9050RR	8021	254.5	31.24	17.48	94.27	65.3	2.6
45	SX 1281RR	8045	253.4	31.48	17.29	94.68	65.2	2.9
8	SX 1233	7837	254.8	30.57	17.39	92.27	64.5	3.3
30	HM 9032RR	8226	240.3	33.95	16.62	94.20	64.4	3.3
16	BTS 18RR26	8037	256.7	31.00	17.63	94.31	64.3	2.3
29	HM 29RR	8241	246.6	33.25	16.90	94.50	64.3	3.1
9	Crystal R442	7755	247.7	30.97	17.12	94.09	64.2	2.5
35	HM 9055RR	8073	250.3	32.01	17.17	94.43	63.9	3.0
20	Crystal RR827	9225	262.1	34.82	17.89	94.49	63.8	4.0
22	Crystal RR824	8901	259.3	33.88	17.59	94.90	62.7	4.2
37	HM 9084RR	7909	239.9	32.78	16.59	94.22	62.7	3.4
13	BTS 17RR62	8977	261.0	34.03	17.68	94.93	62.7	4.0
32	HM 9042RR	7913	251.8	31.11	17.36	94.12	62.1	2.8
36	HM 9080RR	8406	248.0	33.68	16.97	94.56	61.0	3.3
39	HM 9116RR	8175	251.4	32.21	17.24	94.46	60.7	3.0
38	HM 9110RR	8342	250.7	32.98	17.20	94.46	59.8	3.1
5	Crystal R509	8003	250.7	31.68	17.22	94.30	59.7	2.7
1	Beta 5833R	7749	247.3	31.08	16.85	94.85	58.6	3.3
2	Beta 5930R	7727	255.0	30.13	17.61	94.06	58.5	2.6
40	HM 9130RR	7689	240.7	31.73	16.46	94.71	56.8	3.9
34	HM 9051RR	8036	257.8	30.96	17.55	94.72	56.7	2.6
3	Beta 1643N	8735	250.0	34.59	17.12	94.47	56.0	3.4
15	BTS 18RR16	8345	246.6	33.41	16.91	94.50	54.6	2.4
19	BTS 18RR66	8569	233.8	36.43	16.11	94.51	49.4	4.0
23	Crystal RR840	8204	252.8	32.17	17.34	94.42	43.8	2.5
LSD (P=.05)		352.0	6.74	1.19	0.38	0.97	3.51	0.66
CV		3.8	2.39	3.24	1.96	0.91	4.80	10.02
Grand Mean		8164.9	249.04	32.52	17.08	94.41	64.62	3.24

Michigan Sugar Company
Official Variety Trial - 2008
 Average of 6 Locations
 Sorted by Cercospora Leafspot Rating

ID#	Variety	RWSA	RWST	Tons/A	% Suc	% CJP	Emerg %	CLS
16	BTS 18RR26	8037	256.7	31.00	17.63	94.31	64.3	2.3
15	BTS 18RR16	8345	246.6	33.41	16.91	94.50	54.6	2.4
9	Crystal R442	7755	247.7	30.97	17.12	94.09	64.2	2.5
23	Crystal RR840	8204	252.8	32.17	17.34	94.42	43.8	2.5
2	Beta 5930R	7727	255.0	30.13	17.61	94.06	58.5	2.6
33	HM 9050RR	8021	254.5	31.24	17.48	94.27	65.3	2.6
34	HM 9051RR	8036	257.8	30.96	17.55	94.72	56.7	2.6
5	Crystal R509	8003	250.7	31.68	17.22	94.30	59.7	2.7
7	HM 2788NT	7155	217.8	32.50	15.32	93.71	69.4	2.8
41	HM 9131RR	8167	253.1	32.04	17.39	94.35	69.4	2.8
32	HM 9042RR	7913	251.8	31.11	17.36	94.12	62.1	2.8
10	HM 7172Rz	7453	244.1	30.38	16.95	93.91	68.4	2.9
42	HM 9133RR	8177	250.2	32.44	17.21	94.33	66.6	2.9
28	HM 28RR	8191	243.4	33.39	16.73	94.42	71.2	2.9
45	SX 1281RR	8045	253.4	31.48	17.29	94.68	65.2	2.9
11	HM 2771Rz	7258	254.2	28.28	17.27	94.87	69.5	2.9
35	HM 9055RR	8073	250.3	32.01	17.17	94.43	63.9	3.0
39	HM 9116RR	8175	251.4	32.21	17.24	94.46	60.7	3.0
29	HM 29RR	8241	246.6	33.25	16.90	94.50	64.3	3.1
31	HM 9039RR	8150	249.3	32.59	17.13	94.35	72.3	3.1
38	HM 9110RR	8342	250.7	32.98	17.20	94.46	59.8	3.1
44	SX 1260RR	8207	245.3	33.18	16.83	94.55	68.9	3.1
43	HM 9151RR	8110	239.8	33.58	16.64	93.96	67.8	3.2
27	HM 27RR	8204	250.3	32.66	17.20	94.39	67.6	3.2
30	HM 9032RR	8226	240.3	33.95	16.62	94.20	64.4	3.3
1	Beta 5833R	7749	247.3	31.08	16.85	94.85	58.6	3.3
36	HM 9080RR	8406	248.0	33.68	16.97	94.56	61.0	3.3
8	SX 1233	7837	254.8	30.57	17.39	92.27	64.5	3.3
3	Beta 1643N	8735	250.0	34.59	17.12	94.47	56.0	3.4
46	SX 1282 RR	8201	244.5	33.30	16.79	94.50	67.1	3.4
37	HM 9084RR	7909	239.9	32.78	16.59	94.22	62.7	3.4
14	BTS 18RR06	8334	255.2	32.32	17.27	95.06	67.6	3.4
4	Beta 5670R	8122	245.5	32.78	17.03	93.94	74.5	3.6
21	Crystal RR808	8864	265.8	33.02	18.07	94.70	69.7	3.7
26	Crystal RR877	8389	232.8	35.75	16.12	94.25	67.5	3.7
25	Crystal RR898	7930	255.0	30.74	17.34	94.83	75.1	3.7
12	BTS 17RR32	8787	256.9	33.85	17.44	94.89	70.8	3.8
18	BTS 18RR46	8342	245.0	33.56	16.76	94.61	71.7	3.8
6	Crystal R689	8104	237.3	33.79	16.35	94.40	72.2	3.8
40	HM 9130RR	7689	240.7	31.73	16.46	94.71	56.8	3.9
19	BTS 18RR66	8569	233.8	36.43	16.11	94.51	49.4	4.0
20	Crystal RR827	9225	262.1	34.82	17.89	94.49	63.8	4.0
13	BTS 17RR62	8977	261.0	34.03	17.68	94.93	62.7	4.0
24	Crystal RR848	8054	254.0	31.42	17.32	94.66	69.4	4.0
22	Crystal RR824	8901	259.3	33.88	17.59	94.90	62.7	4.2
17	BTS 18RR36	8249	253.7	32.08	17.35	94.54	70.4	4.4
LSD (P=.05)		352.0	6.74	1.19	0.38	0.97	3.51	0.66
CV		3.8	2.39	3.24	1.96	0.91	4.80	10.02
Grand Mean		8164.9	249.04	32.52	17.08	94.41	64.62	3.24

Michigan Sugar Company
Official Variety Trial
 Maust, Pigeon, MI
 2008

ID#	Variety	RWSA	RWST	Tons/A	% Suc	% CJP	% Emerg June 6	% Emerg June 17
20	Crystal RR827	11338	295.0	38.43	19.49	95.88	69.0	63.8
22	Crystal RR824	11163	290.7	38.39	19.27	95.75	60.0	57.8
3	Beta 1643N	11031	285.5	38.74	18.92	95.81	57.5	58.5
21	Crystal RR808	11013	301.4	36.54	19.84	96.00	68.9	67.2
46	SX 1282 RR	10893	285.2	38.21	18.81	96.10	64.3	70.1
38	HM 9110RR	10730	281.3	38.18	18.66	95.84	60.8	65.4
18	BTS 18RR46	10730	283.4	37.88	18.66	96.21	71.7	65.5
12	BTS 17RR32	10723	289.9	37.01	19.11	96.08	71.9	69.5
44	SX 1260RR	10720	280.7	38.17	18.63	95.79	71.5	69.8
23	Crystal RR840	10681	279.6	38.21	18.71	95.38	40.8	42.5
13	BTS 17RR62	10661	288.7	36.94	19.13	95.80	65.5	63.2
41	HM 9131RR	10613	283.0	37.53	18.88	95.49	69.3	70.3
17	BTS 18RR36	10608	285.2	37.18	18.86	95.96	74.2	63.5
26	Crystal RR877	10548	255.9	41.28	17.19	95.50	70.8	69.2
19	BTS 18RR66	10524	258.1	40.82	17.26	95.73	55.5	56.8
30	HM 9032RR	10524	272.0	38.72	18.09	95.80	67.7	61.8
34	HM 9051RR	10481	292.4	35.85	19.38	95.74	61.1	59.1
6	Crystal R689	10463	273.5	38.34	18.15	95.90	78.3	68.8
33	HM 9050RR	10447	292.3	35.78	19.32	95.89	67.0	67.1
36	HM 9080RR	10432	275.6	37.85	18.35	95.69	59.6	60.0
14	BTS 18RR06	10428	295.3	35.31	19.31	96.44	67.3	63.3
40	HM 9130RR	10408	275.2	37.83	18.14	96.24	60.0	54.4
39	HM 9116RR	10408	289.1	36.00	19.15	95.82	65.5	62.2
42	HM 9133RR	10381	287.4	36.13	19.06	95.77	68.2	68.4
15	BTS 18RR16	10365	278.3	37.32	18.41	96.02	50.7	53.5
45	SX 1281RR	10356	292.4	35.44	19.29	95.99	65.9	61.6
35	HM 9055RR	10267	286.3	35.87	18.99	95.79	62.8	63.2
28	HM 28RR	10204	274.8	37.12	18.35	95.55	72.0	71.3
24	Crystal RR848	10155	280.5	36.25	18.56	95.96	72.3	74.4
43	HM 9151RR	10114	273.5	36.99	18.24	95.66	78.6	68.9
37	HM 9084RR	10113	270.3	37.41	18.09	95.51	62.5	64.0
32	HM 9042RR	10065	286.6	35.12	19.15	95.39	69.7	64.0
31	HM 9039RR	10063	277.5	36.24	18.53	95.52	69.7	71.1
29	HM 29RR	10039	275.6	36.44	18.38	95.62	68.3	64.5
27	HM 27RR	10005	273.8	36.54	18.36	95.36	73.4	69.7
4	Beta 5670R	9980	281.8	35.43	18.74	95.71	77.3	73.5
5	Crystal R509	9905	283.0	35.04	18.83	95.65	62.4	60.3
8	SX 1233	9791	284.0	34.52	18.81	95.86	69.9	63.1
1	Beta 5833R	9683	278.2	34.86	18.42	95.98	61.3	57.7
16	BTS 18RR26	9604	282.6	34.05	18.97	95.19	65.3	66.8
25	Crystal RR898	9545	284.9	33.48	18.84	95.95	73.8	71.7
10	HM 7172Rz	9436	276.7	34.13	18.59	95.22	68.5	65.0
2	Beta 5930R	9283	291.9	31.80	19.42	95.56	65.9	62.5
9	Crystal R442	9251	280.9	32.97	18.84	95.24	69.7	64.1
11	HM 2771Rz	9177	289.7	31.71	19.01	96.30	76.0	68.0
7	HM 2788NT	9104	254.6	35.75	17.13	95.44	74.6	68.8
LSD (P=.05)		565.1	10.63	1.79	0.58	0.62	9.13	8.42
CV		5.6	3.85	5.02	3.17	0.66	13.87	13.27
Grand Mean		10270.7	281.62	36.52	18.70	95.76	67.18	64.73

Michigan Sugar Company
Official Variety Trial
 Stoutenburg, Sandusky, MI
 2008

ID#	Variety	RWSA	RWST	Tons/A	% Suc	% CJP	% Emerg June 4
13	BTS 17RR62	10026	245.1	40.93	16.75	94.75	65.9
20	Crystal RR827	9999	246.0	40.71	17.22	93.56	72.3
12	BTS 17RR32	9844	242.3	40.68	16.69	94.40	75.4
22	Crystal RR824	9790	239.0	40.96	16.71	93.72	66.4
3	Beta 1643N	9731	226.1	43.11	15.88	93.71	65.1
21	Crystal RR808	9412	238.1	39.58	16.70	93.56	76.3
18	BTS 18RR46	9406	222.3	42.31	15.55	93.96	74.0
14	BTS 18RR06	9399	236.9	39.64	16.31	94.48	73.1
36	HM 9080RR	9371	223.7	41.87	15.74	93.65	66.4
30	HM 9032RR	9354	222.5	42.02	15.59	93.86	71.6
23	Crystal RR840	9308	241.0	38.67	16.64	94.25	53.9
19	BTS 18RR66	9290	209.6	44.31	14.85	93.59	55.7
42	HM 9133RR	9277	227.5	40.77	15.97	93.70	73.7
16	BTS 18RR26	9218	243.4	37.85	16.95	93.83	68.8
38	HM 9110RR	9183	227.5	40.35	15.88	93.95	61.0
17	BTS 18RR36	9118	231.6	39.34	16.25	93.65	71.7
26	Crystal RR877	9082	212.6	42.72	15.12	93.31	67.8
44	SX 1260RR	9081	223.7	40.63	15.53	94.31	75.3
29	HM 29RR	9071	218.8	41.49	15.39	93.72	62.6
39	HM 9116RR	9060	229.0	39.58	16.02	93.84	67.5
41	HM 9131RR	9015	228.9	39.38	16.12	93.52	78.8
9	Crystal R442	9004	233.3	38.59	16.43	93.45	70.0
31	HM 9039RR	9001	218.1	41.25	15.50	93.27	76.1
27	HM 27RR	8996	221.1	40.69	15.53	93.77	68.4
45	SX 1281RR	8979	230.1	38.99	15.98	94.18	71.5
46	SX 1282 RR	8934	217.6	41.06	15.37	93.56	73.8
28	HM 28RR	8924	215.4	41.43	15.28	93.39	77.5
6	Crystal R689	8909	209.2	42.61	14.89	93.32	80.6
15	BTS 18RR16	8907	223.1	39.97	15.64	93.83	61.8
24	Crystal RR848	8881	231.4	38.38	16.12	94.01	76.6
32	HM 9042RR	8871	227.7	38.99	15.98	93.70	69.0
43	HM 9151RR	8853	210.4	42.10	15.18	92.63	70.5
4	Beta 5670R	8841	219.6	40.21	15.75	92.79	77.5
35	HM 9055RR	8827	220.8	40.02	15.63	93.44	68.6
8	SX 1233	8815	226.0	39.00	15.91	93.59	69.6
25	Crystal RR898	8804	242.5	36.32	16.76	94.22	83.6
34	HM 9051RR	8801	227.0	38.72	15.88	93.85	61.3
33	HM 9050RR	8704	227.0	38.32	16.01	93.46	70.0
1	Beta 5833R	8691	223.0	39.05	15.49	94.23	66.4
37	HM 9084RR	8607	210.2	40.93	14.96	93.31	73.0
2	Beta 5930R	8605	229.6	37.44	16.20	93.41	64.5
5	Crystal R509	8588	219.8	39.09	15.53	93.52	61.5
40	HM 9130RR	8510	212.2	40.13	14.84	94.17	63.7
11	HM 2771Rz	8372	234.5	35.74	16.22	94.31	81.5
10	HM 7172Rz	8070	211.6	38.16	15.17	92.94	78.0
7	HM 2788NT	8067	208.8	38.61	14.87	93.31	76.5
LSD (P=.05)		524.8	11.29	1.54	0.55	1.02	7.04
CV		5.9	5.10	3.93	3.55	1.11	10.18
Grand Mean		9034.7	225.78	40.06	15.85	93.72	70.56

Michigan Sugar Company
Official Variety Trial
 Sylvester, Quanicassee, MI
 2008

ID#	Variety	RWSA	RWST	Tons/A	% Suc	% CJP	% Emerg June 4
22	Crystal RR824	11967	301.0	39.72	19.95	95.65	71.2
13	BTS 17RR62	11959	301.8	39.65	20.17	95.22	64.7
21	Crystal RR808	11849	309.3	38.29	20.52	95.52	74.5
3	Beta 1643N	11752	290.1	40.49	19.44	95.21	56.8
20	Crystal RR827	11742	302.6	38.80	20.22	95.22	65.2
18	BTS 18RR46	11694	288.7	40.53	19.43	94.98	80.2
15	BTS 18RR16	11571	294.4	39.32	19.69	95.24	55.1
12	BTS 17RR32	11424	297.6	38.43	19.88	95.28	74.8
17	BTS 18RR36	11207	296.3	37.83	19.84	95.17	76.1
14	BTS 18RR06	11120	297.1	37.36	19.75	95.53	66.4
19	BTS 18RR66	11080	271.3	40.83	18.23	95.28	50.1
26	Crystal RR877	10815	267.2	40.51	18.13	94.83	71.2
24	Crystal RR848	10803	292.1	36.98	19.72	94.82	67.6
43	HM 9151RR	10765	287.7	37.42	19.30	95.17	70.7
4	Beta 5670R	10750	281.0	38.26	19.17	94.38	75.1
28	HM 28RR	10745	285.8	37.59	19.26	94.96	71.0
6	Crystal R689	10742	274.8	39.04	18.50	95.14	73.8
38	HM 9110RR	10737	288.8	37.18	19.46	94.91	61.0
39	HM 9116RR	10645	289.6	36.79	19.49	94.98	60.5
5	Crystal R509	10532	291.9	36.09	19.50	95.35	64.4
36	HM 9080RR	10500	283.5	37.05	19.18	94.77	63.8
29	HM 29RR	10483	286.6	36.59	19.29	95.02	65.8
16	BTS 18RR26	10470	296.9	35.27	20.01	94.85	67.3
25	Crystal RR898	10456	290.8	35.95	19.38	95.48	79.7
23	Crystal RR840	10444	297.4	35.12	19.95	95.08	40.7
33	HM 9050RR	10430	294.0	35.50	19.76	95.00	65.5
32	HM 9042RR	10369	291.3	35.62	19.66	94.81	62.1
35	HM 9055RR	10362	287.9	35.94	19.30	95.20	63.7
45	SX 1281RR	10284	290.6	35.40	19.58	94.91	65.0
34	HM 9051RR	10269	297.7	34.51	19.80	95.50	57.7
46	SX 1282 RR	10239	277.0	36.97	18.92	94.37	66.4
27	HM 27RR	10203	285.2	35.84	19.39	94.50	73.8
30	HM 9032RR	10199	275.6	36.99	18.84	94.35	69.6
42	HM 9133RR	10187	287.9	35.36	19.51	94.66	65.2
44	SX 1260RR	10173	278.5	36.54	18.97	94.52	72.2
9	Crystal R442	10172	294.8	34.51	19.82	95.02	64.7
8	SX 1233	10156	294.0	34.56	19.71	95.12	66.6
31	HM 9039RR	10101	288.0	35.07	19.60	94.45	76.3
7	HM 2788NT	10090	255.7	39.47	17.73	93.91	68.1
37	HM 9084RR	10021	276.8	36.25	18.91	94.36	59.7
1	Beta 5833R	10008	288.5	34.73	19.23	95.50	60.7
10	HM 7172Rz	9905	284.7	34.85	19.38	94.47	67.9
41	HM 9131RR	9889	287.4	34.43	19.45	94.73	68.1
2	Beta 5930R	9837	292.8	33.59	19.90	94.45	60.7
40	HM 9130RR	9694	288.1	33.64	19.29	95.25	59.9
11	HM 2771Rz	9209	294.8	31.24	19.65	95.45	67.2
LSD (P=.05)		659.6	8.37	2.01	0.38	0.78	8.28
CV		6.3	2.96	5.59	2.02	0.84	12.70
Grand Mean		10609.8	288.60	36.78	19.43	94.97	66.56

Michigan Sugar Company
Official Variety Trial
 Uebler, Frankenmuth, MI
 2008

ID#	Variety	RWSA	RWST	Tons/A	% Suc	% CJP	% Emerg April 30	% Emerg May 16	% Emerg May 21
20	Crystal RR827	8952	262.6	34.08	18.18	93.57	36.4	61.1	66.8
13	BTS 17RR62	8266	259.9	31.84	17.82	94.11	39.3	65.4	67.1
21	Crystal RR808	8151	265.1	30.77	18.18	94.37	41.9	75.4	78.5
12	BTS 17RR32	8092	259.1	31.29	17.89	94.13	33.8	73.3	78.8
3	Beta 1643N	8016	241.2	33.24	16.93	93.14	34.0	55.8	57.4
27	HM 27RR	7875	253.6	31.06	17.70	93.67	52.7	68.9	70.8
15	BTS 18RR16	7871	248.5	31.70	17.30	93.78	22.7	54.7	61.3
19	BTS 18RR66	7842	234.8	33.46	16.47	93.78	29.4	46.8	47.1
5	Crystal R509	7812	253.7	30.81	17.75	93.12	42.5	58.8	62.5
26	Crystal RR877	7762	235.2	33.10	16.50	93.58	43.7	70.5	72.8
29	HM 29RR	7728	240.3	32.13	16.77	93.49	50.1	72.6	71.1
36	HM 9080RR	7710	248.4	31.09	17.12	94.00	50.1	67.6	68.2
31	HM 9039RR	7671	254.1	30.23	17.61	93.64	55.3	75.7	76.9
42	HM 9133RR	7606	244.3	31.13	17.09	93.64	35.6	68.3	71.7
35	HM 9055RR	7584	250.4	30.28	17.43	93.78	51.9	68.4	72.8
28	HM 28RR	7560	234.5	32.19	16.44	93.64	46.3	77.4	81.7
22	Crystal RR824	7555	255.6	29.45	17.58	94.34	36.0	64.0	67.9
37	HM 9084RR	7531	243.1	31.06	16.93	93.92	43.0	63.4	65.0
16	BTS 18RR26	7494	260.5	28.82	18.06	93.84	44.9	69.1	68.9
6	Crystal R689	7456	236.8	31.53	16.57	93.69	46.8	83.3	81.4
41	HM 9131RR	7379	252.7	29.22	17.57	93.85	56.9	77.8	77.4
4	Beta 5670R	7341	237.4	30.88	16.82	93.10	53.6	84.5	84.9
39	HM 9116RR	7340	245.8	29.97	17.17	93.68	39.4	61.9	64.7
46	SX 1282 RR	7339	231.5	31.77	16.09	94.19	49.5	71.8	70.4
25	Crystal RR898	7322	249.8	29.33	17.25	94.16	43.3	80.5	82.9
23	Crystal RR840	7264	239.1	30.31	16.99	92.99	23.6	46.8	48.5
43	HM 9151RR	7225	232.9	31.02	16.48	93.21	49.7	71.0	73.5
44	SX 1260RR	7206	240.9	29.91	16.79	93.92	40.8	69.5	73.3
45	SX 1281RR	7194	245.2	29.43	17.03	94.03	37.8	74.4	75.1
38	HM 9110RR	7181	240.3	29.76	16.93	93.37	47.8	62.7	64.8
2	Beta 5930R	7161	244.3	29.28	17.34	93.02	34.1	58.6	59.9
32	HM 9042RR	7159	250.4	28.59	17.66	92.81	40.3	70.4	69.8
18	BTS 18RR46	7146	240.4	29.67	16.75	93.61	42.0	85.8	85.8
9	Crystal R442	7130	234.6	30.40	16.54	93.42	51.6	69.1	72.0
30	HM 9032RR	7128	228.1	31.29	16.21	93.08	39.4	64.9	65.8
33	HM 9050RR	7087	244.3	29.08	17.26	92.89	47.6	73.8	76.9
24	Crystal RR848	7071	253.1	28.06	17.58	93.51	37.3	69.5	75.5
17	BTS 18RR36	7019	246.9	28.35	17.20	93.73	54.0	81.5	83.0
8	SX 1233	6998	253.0	27.68	17.35	80.30	45.2	70.9	74.4
34	HM 9051RR	6942	252.2	27.58	17.52	93.90	41.2	60.2	59.1
14	BTS 18RR06	6940	229.0	30.28	16.08	93.67	40.9	74.1	80.6
1	Beta 5833R	6926	240.1	28.79	16.83	93.60	45.1	62.7	63.3
11	HM 2771Rz	6866	254.1	27.01	17.48	94.33	48.9	79.3	79.9
10	HM 7172Rz	6841	228.3	29.98	16.34	92.74	55.4	77.4	74.5
40	HM 9130RR	6406	223.9	28.63	15.81	93.24	45.9	59.2	66.2
7	HM 2788NT	5357	199.9	27.78	14.54	92.63	42.9	75.8	73.9
LSD (P=.05)		589.9	12.91	1.94	0.75	4.73	11.85	8.28	7.23
CV		8.2	5.40	6.53	4.48	5.17	27.75	12.20	10.36
Grand Mean		7380.5	243.91	30.29	17.04	93.31	43.57	69.27	71.15

Michigan Sugar Company
Official Variety Trial
 Beet & Bean Farm, Saginaw, MI
 2008

ID#	Variety	RWSA	RWST	Tons/A	% Suc	% CJP	% Emerg June 4
20	Crystal RR827	7469	252.5	29.57	17.12	95.08	57.1
22	Crystal RR824	7413	251.2	29.52	17.00	95.20	58.1
13	BTS 17RR62	7246	248.8	29.16	16.83	95.26	61.2
12	BTS 17RR32	7028	242.1	28.98	16.43	95.16	67.1
21	Crystal RR808	6951	258.8	26.85	17.57	94.90	66.2
19	BTS 18RR66	6892	233.8	29.46	15.99	94.91	45.1
36	HM 9080RR	6890	247.7	27.79	16.75	95.30	58.1
41	HM 9131RR	6734	247.3	27.24	17.00	94.44	66.7
30	HM 9032RR	6699	237.4	28.24	16.30	94.64	65.2
26	Crystal RR877	6629	229.2	28.96	15.79	94.61	65.4
4	Beta 5670R	6628	236.6	27.99	16.45	94.01	71.7
29	HM 29RR	6538	240.2	27.21	16.51	94.56	62.0
17	BTS 18RR36	6520	257.0	25.38	17.45	94.92	66.6
14	BTS 18RR06	6482	255.2	25.41	17.13	95.56	62.8
28	HM 28RR	6474	243.7	26.57	16.57	95.05	66.4
44	SX 1260RR	6469	237.1	27.29	16.33	94.50	68.7
27	HM 27RR	6457	245.6	26.29	16.78	94.77	65.8
38	HM 9110RR	6452	242.7	26.54	16.69	94.49	54.5
3	Beta 1643N	6425	242.9	26.45	16.46	95.23	49.0
25	Crystal RR898	6411	245.4	26.12	16.80	94.66	73.5
16	BTS 18RR26	6376	253.6	25.14	17.39	94.48	60.2
43	HM 9151RR	6358	233.1	27.28	16.21	94.07	66.8
1	Beta 5833R	6316	246.1	25.68	16.62	95.36	56.6
6	Crystal R689	6290	231.4	27.19	15.89	94.74	67.0
8	SX 1233	6271	257.2	24.42	17.42	95.06	63.3
9	Crystal R442	6263	245.9	25.47	17.05	94.02	60.5
34	HM 9051RR	6257	252.3	24.81	17.23	94.69	56.3
24	Crystal RR848	6221	256.1	24.28	17.27	95.28	67.2
5	Crystal R509	6210	248.5	24.98	16.94	94.84	56.6
2	Beta 5930R	6208	254.5	24.39	17.56	94.16	54.6
39	HM 9116RR	6161	240.0	25.67	16.54	94.42	57.7
42	HM 9133RR	6159	240.9	25.58	16.58	94.46	62.3
31	HM 9039RR	6147	241.1	25.47	16.49	94.78	70.9
23	Crystal RR840	6131	249.2	24.63	16.99	94.83	42.7
33	HM 9050RR	6099	246.7	24.72	16.88	94.69	61.2
46	SX 1282 RR	6098	238.7	25.56	16.39	94.63	64.4
15	BTS 18RR16	6088	240.1	25.33	16.54	94.40	50.4
45	SX 1281RR	6075	245.7	24.72	16.74	94.90	60.3
35	HM 9055RR	6052	244.1	24.75	16.74	94.59	62.4
32	HM 9042RR	6025	246.9	24.41	16.97	94.44	58.6
18	BTS 18RR46	6019	236.4	25.46	16.21	94.72	70.8
40	HM 9130RR	6012	247.3	24.35	16.75	95.22	52.4
37	HM 9084RR	5982	236.9	25.29	16.26	94.70	58.7
10	HM 7172Rz	5609	246.0	22.81	16.85	94.68	64.8
7	HM 2788NT	5527	210.7	26.20	14.72	94.29	64.8
11	HM 2771Rz	5299	246.4	21.50	16.84	94.75	65.2
LSD (P=.05)		567.5	8.36	2.17	0.46	0.70	4.89
CV		9.1	3.49	8.50	2.83	0.75	8.09
Grand Mean		6370.9	244.17	26.11	16.70	94.75	61.69

Michigan Sugar Company
Official Variety Trial
 Bebow, St. Louis, MI
 2008

ID#	Variety	RWSA	RWST	Tons/A	% Suc	% CJP	% Emerg June 4
31	HM 9039RR	5914	216.9	27.30	15.05	94.43	62.2
20	Crystal RR827	5847	213.9	27.30	15.10	93.63	57.7
21	Crystal RR808	5808	222.3	26.09	15.58	93.86	55.3
19	BTS 18RR66	5787	195.0	29.67	13.83	93.78	41.5
38	HM 9110RR	5768	223.6	25.89	15.55	94.21	52.3
13	BTS 17RR62	5706	221.8	25.67	15.36	94.44	53.8
46	SX 1282 RR	5705	217.2	26.24	15.16	94.14	57.7
27	HM 27RR	5689	222.2	25.56	15.44	94.28	57.3
14	BTS 18RR06	5633	217.4	25.89	15.01	94.70	59.4
12	BTS 17RR32	5613	210.2	26.72	14.66	94.31	59.3
44	SX 1260RR	5595	210.8	26.54	14.71	94.26	53.9
29	HM 29RR	5589	217.8	25.62	15.06	94.61	59.8
36	HM 9080RR	5531	209.1	26.41	14.69	93.95	49.5
22	Crystal RR824	5516	218.2	25.23	15.05	94.74	55.0
26	Crystal RR877	5498	196.8	27.93	13.97	93.69	58.5
34	HM 9051RR	5463	224.9	24.27	15.51	94.62	46.4
3	Beta 1643N	5457	213.9	25.53	15.08	93.72	48.9
42	HM 9133RR	5453	213.2	25.67	15.03	93.72	58.0
30	HM 9032RR	5452	206.4	26.46	14.67	93.45	52.3
39	HM 9116RR	5434	214.8	25.23	15.07	94.00	51.4
23	Crystal RR840	5394	210.4	26.07	14.77	93.96	34.2
45	SX 1281RR	5382	216.4	24.88	15.14	94.05	57.7
41	HM 9131RR	5371	219.4	24.44	15.33	94.05	55.3
33	HM 9050RR	5358	222.7	24.05	15.66	93.69	50.8
35	HM 9055RR	5344	212.2	25.20	14.94	93.80	52.8
43	HM 9151RR	5344	200.9	26.64	14.44	93.00	56.6
15	BTS 18RR16	5270	195.4	26.84	13.88	93.71	45.7
2	Beta 5930R	5266	216.9	24.25	15.25	93.78	48.6
28	HM 28RR	5240	206.0	25.43	14.49	93.95	59.5
37	HM 9084RR	5198	202.2	25.71	14.37	93.53	55.6
24	Crystal RR848	5192	210.8	24.57	14.68	94.37	55.3
4	Beta 5670R	5190	216.7	23.88	15.28	93.65	64.3
40	HM 9130RR	5104	197.6	25.77	13.91	94.16	43.9
18	BTS 18RR46	5058	198.8	25.49	13.96	94.18	54.1
16	BTS 18RR26	5057	203.1	24.87	14.38	93.69	53.9
25	Crystal RR898	5044	216.8	23.21	15.01	94.53	59.4
17	BTS 18RR36	5019	205.2	24.39	14.47	93.83	61.4
8	SX 1233	4993	214.4	23.25	15.12	93.67	50.2
32	HM 9042RR	4987	208.1	23.93	14.76	93.57	49.0
5	Crystal R509	4973	207.0	24.05	14.74	93.33	52.6
1	Beta 5833R	4870	208.0	23.36	14.50	94.41	47.1
10	HM 7172Rz	4859	217.3	22.37	15.39	93.42	60.0
7	HM 2788NT	4785	176.9	27.21	12.94	92.68	64.3
6	Crystal R689	4765	198.1	24.03	14.09	93.61	61.7
9	Crystal R442	4712	196.5	23.90	14.03	93.40	54.0
11	HM 2771Rz	4626	205.7	22.49	14.44	94.09	54.9
LSD (P=.05)		446.1	10.88	1.88	0.62	0.72	8.56
CV		8.6	5.28	7.57	4.29	0.78	16.12
Grand Mean		5323.0	210.20	25.34	14.77	93.93	54.19

Michigan Sugar Company
Plant to Stand Trials
 Average of 3 Locations
 2008

No.	Variety	RWSA	RWST	Tons/A	%Suc	%CJP	% Emergence		CLRate 0-9
							Early	Final	
20	Crystal RR827	9670	276.2	35.50	18.63	94.95	46.7	63.1	1.44
29	HM 29RR	9533	258.7	37.30	17.45	95.17	59.4	73.4	1.03
28	HM 28RR	9443	255.7	37.33	17.24	95.24	69.5	76.1	1.02
12	Beta 17RR32	9390	269.8	35.15	18.09	95.38	56.7	69.7	1.42
44	SX 1260RR	9352	256.8	36.78	17.31	95.26	68.1	74.5	1.11
31	HM 9039RR	9330	259.0	36.46	17.45	95.27	65.3	78.9	0.92
30	HM 9032RR	9161	252.8	36.69	17.25	94.67	58.2	70.6	0.89
3	Beta 1643N	9084	260.3	35.23	17.61	94.99	45.1	52.8	1.87
27	HM 27RR	9011	258.2	35.36	17.50	94.92	60.3	72.4	1.02
5	Crystal R509	8912	260.7	34.55	17.69	94.83	47.9	61.4	0.75
35	HM 9055RR	8894	259.5	34.57	17.60	94.84	56.8	68.8	0.81
10	HM 7172Rz	8740	259.5	34.18	17.63	94.80	56.0	70.3	1.08
9	Crystal R442	8697	262.0	33.48	17.85	94.65	55.9	63.6	0.69
34	HM 9051RR	8678	265.3	33.07	17.85	95.25	47.9	62.7	0.70
32	HM 9042RR	8643	265.1	32.97	18.04	94.68	51.8	63.4	0.67
33	HM 9050RR	8489	263.2	32.71	17.89	94.73	60.8	69.3	0.80
1	Beta 5833R	8332	255.9	32.94	17.31	95.09	36.2	43.2	0.98
11	HM 2771Rz	7789	261.3	30.11	17.59	95.29	61.3	75.9	0.76
LSD (P=.05)		671.4	9.95	2.01	0.48	0.68	9.57	10.13	0.39
CV		4.5	2.29	3.48	1.62	0.43	10.29	7.14	23.40
Grand Mean		8952.7	261.10	34.69	17.66	95.00	55.78	67.20	1.00

Trial Quality: Fair & Good
 Reps: 6 at two locations
 4 at one location

Row Width: 30 inches
 Quadris: 1 app, Rhizoc. Control good

Michigan Sugar Company
Plant to Stand Trial
 Stoutenburg Farm, Sandusky, MI
 2008

No.	Variety	RWSA	RWST	Tons/A	%Suc	%CJP	% Emerg		CLRate 0-9
							18 Day	44 Day	
20	Crystal RR827	9966	238.2	41.88	16.60	93.88	56.7	66.7	0.83
3	Beta 1643N	9808	234.3	41.83	16.17	94.41	52.1	56.8	0.54
31	HM 9039RR	9681	226.6	42.76	15.80	94.02	80.0	79.2	0.38
12	Beta 17RR32	9674	237.0	40.80	16.32	94.50	70.7	74.3	0.33
29	HM 29RR	9502	219.6	43.25	15.33	94.09	69.4	67.2	0.58
28	HM 28RR	9420	219.0	43.00	15.33	93.94	76.4	77.1	0.42
27	HM 27RR	9410	220.7	42.58	15.49	93.81	72.2	75.0	0.42
44	SX 1260RR	9293	221.3	42.02	15.41	94.20	70.0	74.0	0.25
35	HM 9055RR	9227	222.2	41.05	15.57	93.73	65.1	65.8	0.08
30	HM 9032RR	9103	216.7	42.00	15.28	93.65	66.9	67.9	0.17
10	HM 7172Rz	9090	220.4	41.29	15.53	93.62	71.5	78.1	0.54
34	HM 9051RR	9089	233.1	38.93	16.04	94.59	60.3	62.9	0.13
33	HM 9050RR	9039	228.7	39.57	15.95	93.96	70.7	74.9	0.25
9	Crystal R442	8856	234.9	37.73	16.18	94.50	61.0	66.0	0.00
32	HM 9042RR	8803	229.9	38.32	16.04	93.95	62.5	65.4	0.25
11	HM 2771Rz	8497	234.2	36.25	16.10	94.63	75.6	81.0	0.17
1	Beta 5833R	8443	220.5	38.28	15.40	94.07	44.0	45.7	0.42
5	Crystal R509	8436	219.7	38.45	15.50	93.59	60.0	63.5	0.00
LSD (P=.05)		670.5	11.20	2.21	0.53	0.89	10.29	9.37	ns
CV		6.3	4.28	4.73	2.91	0.82	13.57	11.76	140.97
Grand Mean		9185.4	226.51	40.55	15.78	94.06	65.67	68.97	0.32

Trial Quality: Good

Plant/Harvest Dates: April 22 / Oct 6

Reps: 6

Row Width: 30 inches

Quadris: 10 leaf, Rhizoc. Control good

Cercospora sprays: 2, control very good

Michigan Sugar Company
Plant to Stand Trial
 Bisher Farm, Ruth, MI
 2008

No. Variety	RWSA	RWST	Tons/A	%Suc	%CJP	% Emerg		CLRate 0-9
						14 Day	22 Day	
29 HM 29RR	10151	280.4	36.28	18.57	95.91	67.2	79.5	1.75
28 HM 28RR	10055	271.9	36.97	18.06	95.87	74.1	75.0	1.56
44 SX 1260RR	9700	269.3	36.11	18.01	95.52	73.8	75.0	2.25
31 HM 9039RR	9656	271.8	35.59	17.90	96.35	62.3	78.5	1.50
12 Beta 17RR32	9598	285.4	33.62	18.77	96.25	45.3	65.1	2.56
30 HM 9032RR	9542	269.2	35.51	18.07	95.35	68.4	73.3	1.75
20 Crystal RR827	9366	292.8	32.08	19.61	95.18	49.5	59.4	2.06
5 Crystal R509	9329	287.0	32.56	19.05	95.75	46.2	59.2	1.75
32 HM 9042RR	9217	284.4	32.43	19.05	95.29	55.2	61.3	1.25
35 HM 9055RR	9126	273.5	33.32	18.40	95.19	65.3	71.7	1.69
27 HM 27RR	9077	273.1	33.14	18.28	95.46	55.0	69.8	1.75
10 HM 7172Rz	9075	283.7	31.96	18.87	95.67	61.1	62.5	1.75
33 HM 9050RR	8937	277.8	32.15	18.71	95.07	61.8	63.7	1.44
34 HM 9051RR	8782	281.3	31.23	18.80	95.44	49.8	62.5	1.38
9 Crystal R442	8755	267.6	32.81	18.35	94.27	60.4	61.1	1.56
1 Beta 5833R	8692	277.5	31.39	18.45	95.74	37.5	40.6	1.69
3 Beta 1643N	8138	259.9	31.37	17.72	94.59	45.0	48.8	3.19
11 HM 2771Rz	7656	271.6	28.10	18.20	95.39	66.7	70.8	1.44
LSD (P=.05)	ns	ns	4.39	ns	ns	16.85	16.63	0.59
CV	10.1	5.14	9.40	3.97	0.81	20.50	17.98	23.60
Grand Mean	9158.5	276.60	33.15	18.49	95.46	58.03	65.44	1.80

Trial Quality: Fair

Plant/Harvest Dates: April 17 / Oct 10

Reps: 6

Row Width: 30 inches

Quadris: 6 leaf, Rhizoc. Control good

Cercospora sprays: 2, control good

Michigan Sugar Company
Plant to Stand Trial
 Schwab Farm, Kawkawlin, MI
 2008

No.	Variety	RWSA	RWST	Tons/A	%Suc	%CJP	% Emerg CLSrate	
							14 Day	0-9
20	Crystal RR827	9678	297.6	32.54	19.68	95.79	33.8	1.42
3	Beta 1643N	9307	286.6	32.49	18.94	95.98	38.1	1.88
44	SX 1260RR	9062	280.0	32.22	18.50	96.05	60.4	0.83
5	Crystal R509	8972	275.2	32.63	18.53	95.15	37.6	0.50
29	HM 29RR	8946	276.2	32.37	18.45	95.50	41.5	0.75
12	Beta 17RR32	8898	286.9	31.02	19.17	95.38	54.2	1.38
28	HM 28RR	8854	276.3	32.01	18.32	95.91	58.0	1.08
30	HM 9032RR	8837	272.4	32.55	18.39	95.00	39.3	0.75
31	HM 9039RR	8654	278.7	31.02	18.64	95.43	53.6	0.88
27	HM 27RR	8547	280.7	30.36	18.74	95.49	53.8	0.88
9	Crystal R442	8480	283.4	29.91	19.03	95.18	46.4	0.50
35	HM 9055RR	8328	282.7	29.35	18.83	95.61	40.1	0.67
34	HM 9051RR	8162	281.4	29.04	18.70	95.72	33.6	0.58
10	HM 7172Rz	8056	274.3	29.28	18.48	95.11	35.4	0.96
32	HM 9042RR	7910	281.0	28.15	19.02	94.79	37.7	0.50
1	Beta 5833R	7862	269.6	29.15	18.07	95.45	27.2	0.83
33	HM 9050RR	7492	283.1	26.40	19.02	95.15	50.0	0.71
11	HM 2771Rz	7214	278.1	25.97	18.46	95.84	41.5	0.67
LSD (P=.05)		1170.5	10.47	3.96	0.54	0.69	15.50	0.48
CV		11.9	3.20	11.30	2.50	0.60	30.90	47.30
Grand Mean		8514.4	280.20	30.36	18.72	95.47	43.46	0.88

Trial Quality: Fair
 Plant/Harvest Dates: April 23 / Oct 15
 Reps: 6

Row Width: 30 inches
 Quadris: 6 leaf, Rhizoc. Control good
 Cercospora sprays: 3, control very good

Michigan Sugar Company
Cercorpora Variety Trial
Average of 2 Locations - 2008

No.	Name	0-9 Rating
16	BTS 18RR26	2.28
15	BTS 18RR16	2.39
9	Crystal R442	2.45
23	Crystal RR840	2.54
2	Beta 5930R	2.55
33	HM 9050RR	2.60
34	HM 9051RR	2.64
5	Crystal R509	2.74
7	HM 2788NT	2.79
41	HM 9131RR	2.80
32	HM 9042RR	2.80
10	HM 7172Rz	2.85
42	HM 9133RR	2.93
11	HM 2771Rz	2.94
28	HM 28RR	2.94
45	SX 1281RR	2.94
35	HM 9055RR	2.99
39	HM 9116RR	3.01
29	HM29RR	3.09
31	HM 9039RR	3.12
38	HM 9110RR	3.13
44	SX 1260RR	3.13
43	HM 9151RR	3.20
27	HM 27RR	3.21
30	HM 9032RR	3.28
1	Beta 5833R	3.28
36	HM 9080RR	3.30
8	SX 1233	3.30
3	Beta 1643N	3.39
37	HM 9084RR	3.40
46	SX 1282 RR	3.40
14	BTS 18RR06	3.44
4	Beta 5670R	3.57
21	Crystal RR808	3.66
26	Crystal RR877	3.68
25	Crystal RR898	3.74
12	BTS 17RR32	3.76
18	BTS 18RR46	3.77
6	Crystal R689	3.80
40	HM 9130RR	3.87
19	BTS 18RR66	3.95
20	Crystal RR827	3.98
13	BTS 17RR62	4.01
24	Crystal RR848	4.02
22	Crystal RR824	4.23
17	BTS 18RR36	4.37
LSD (P=.05)		0.66
CV		10.02
Grand Mean		3.24

Michigan Sugar Company
Cercospora Variety Trial
Pigeon, MI - 2008

Trial Validity: Fair-Good

0-9 Cercospora Ratings

No.	Variety	Avg 11	10-Sep	12-Sep	16-Sep	17-Sep	24-Sep	24-Sep	26-Sep	29-Sep	3-Oct	4-Oct	4-Oct
16	BTS 18RR26	2.42	2.05	2.15	2.25	1.56	2.45	1.86	2.20	2.16	2.46	3.65	3.85
23	Crystal RR840	2.56	2.25	2.10	2.55	1.80	2.70	2.20	2.30	2.50	2.94	3.41	3.45
15	BTS 18RR16	2.59	2.20	2.15	2.45	1.86	2.45	2.26	2.30	2.50	2.90	3.50	3.90
9	Crystal R442	2.71	2.20	2.20	2.55	1.92	2.65	2.34	2.20	2.82	2.96	3.85	4.10
2	Beta 5930R	2.76	2.45	2.40	2.60	1.96	2.80	2.36	2.40	2.80	2.74	3.80	4.05
7	HM 2788NT	3.00	2.65	2.70	2.90	2.44	3.10	2.90	2.40	2.96	3.00	3.90	4.00
33	HM 9050RR	3.04	2.50	2.45	2.90	2.20	3.05	2.82	2.50	3.02	3.06	3.90	5.00
10	HM 7172Rz	3.04	2.45	2.55	2.70	2.40	3.00	3.10	2.60	3.10	3.16	3.90	4.50
5	Crystal R509	3.07	2.65	2.49	3.00	2.32	3.28	2.88	2.57	3.14	3.32	4.00	4.13
28	HM 28RR	3.08	2.45	2.45	2.75	2.48	3.05	3.00	2.50	3.24	3.30	4.00	4.70
34	HM 9051RR	3.18	2.60	2.65	2.95	2.42	3.20	2.88	2.80	3.00	3.30	4.20	5.00
41	HM 9131RR	3.25	2.40	2.70	3.20	2.40	3.45	3.10	2.80	3.06	3.24	4.35	5.00
11	HM 2771Rz	3.28	2.75	2.60	3.10	2.42	3.40	2.90	2.80	3.06	3.32	4.40	5.30
32	HM 9042RR	3.31	2.65	2.50	3.10	2.36	3.45	3.00	3.00	3.28	3.32	4.30	5.40
3	Beta 1643N	3.31	2.55	2.55	3.05	2.80	3.15	3.26	2.80	3.50	3.64	4.60	4.50
30	HM 9032RR	3.32	2.41	2.61	3.23	2.53	3.42	3.16	3.02	3.25	3.46	4.76	4.66
29	HM 29RR	3.36	2.75	2.70	3.20	2.74	3.35	3.20	3.00	3.24	3.50	4.40	4.90
31	HM 9039RR	3.39	2.70	2.70	2.95	2.78	3.40	3.24	3.20	3.34	3.54	4.50	4.95
42	HM 9133RR	3.45	2.61	2.74	3.38	2.68	4.00	3.01	3.01	3.32	3.46	4.67	5.03
39	HM 9116RR	3.50	2.70	2.85	3.25	2.66	3.75	3.16	3.30	3.34	3.44	4.75	5.30
45	SX 1281RR	3.51	3.10	2.70	3.25	2.82	3.20	3.30	2.90	3.42	3.52	5.25	5.10
35	HM 9055RR	3.56	2.75	2.85	3.25	2.84	3.55	3.30	3.10	3.44	3.48	4.85	5.70
44	SX 1260RR	3.58	2.85	2.85	3.20	2.70	3.70	3.24	3.10	3.50	3.70	5.30	5.20
38	HM 9110RR	3.64	2.60	2.80	3.35	2.94	3.60	3.30	3.40	3.60	3.82	4.85	5.80
12	BTS 17RR32	3.65	2.80	2.75	3.30	2.80	3.55	3.28	3.20	3.74	4.42	4.95	5.40
1	Beta 5833R	3.66	2.95	2.70	3.20	2.84	4.00	3.30	3.20	3.60	3.82	5.00	5.60
27	HM 27RR	3.67	3.10	2.90	3.30	2.80	3.85	3.26	2.90	3.90	3.92	5.00	5.40
36	HM 9080RR	3.67	3.10	2.90	3.40	3.08	3.60	3.26	3.30	3.50	3.84	5.15	5.20
14	BTS 18RR06	3.68	3.05	2.65	3.30	2.72	3.50	3.26	3.30	3.74	4.54	5.15	5.30
8	SX 1233	3.70	3.20	3.03	3.44	3.07	3.76	3.38	3.13	3.39	3.73	4.95	5.61
43	HM 9151RR	3.71	3.20	2.99	3.50	3.02	3.70	3.42	3.60	3.70	3.92	5.20	5.70
37	HM 9084RR	3.74	3.20	2.97	3.63	2.87	4.13	3.41	3.13	3.46	3.81	5.39	5.11
46	SX 1282RR	3.75	3.05	3.00	3.50	3.04	3.75	3.44	3.20	3.94	4.04	5.00	5.30
21	Crystal RR808	3.84	3.10	2.95	3.45	3.00	3.85	3.42	3.20	4.08	4.50	5.25	5.40
18	BTS 18RR46	3.94	3.14	3.10	3.63	3.07	4.01	3.53	3.50	3.89	4.73	5.14	5.59
26	Crystal RR877	4.01	3.30	2.90	3.35	3.10	3.70	3.52	3.60	3.94	4.50	6.05	6.10
22	Crystal RR824	4.05	3.15	2.85	3.40	3.00	4.00	3.66	3.60	4.50	5.10	5.65	5.60
19	BTS 18RR66	4.24	3.34	3.11	3.86	3.23	4.85	3.79	3.77	4.38	4.78	5.64	5.91
4	Beta 5670R	4.25	3.00	3.20	4.20	3.26	4.40	3.60	4.00	4.08	4.60	6.40	6.00
20	Crystal RR827	4.31	3.47	3.18	3.56	3.34	4.21	3.83	3.70	4.94	5.72	5.87	5.63
6	Crystal R689	4.33	3.20	3.00	3.65	3.26	4.20	3.86	3.80	5.24	5.46	5.90	6.00
13	BTS 17RR62	4.35	3.40	3.25	3.65	3.54	4.15	4.04	3.70	4.74	5.80	5.85	5.75
25	Crystal RR 898	4.37	3.25	3.18	4.20	3.14	5.00	3.76	4.20	4.08	4.56	6.40	6.60
24	Crystal RR848	4.80	4.10	3.54	4.32	3.75	4.72	4.33	4.21	5.30	5.82	6.24	6.42
17	BTS 18RR36	4.91	3.85	3.50	4.25	4.00	4.90	4.40	4.20	5.78	6.32	6.45	6.30
40	HM 9130RR	4.91	3.75	3.45	4.55	3.74	5.20	4.56	4.10	5.14	6.14	6.60	6.80
LSD (P=.05)		0.55	0.56	0.46	0.55	0.68	0.62	0.58	0.65	0.84	0.82	0.95	0.91
CV		12.3	15.5	13.1	13.2	19.7	13.6	14.1	16.6	18.4	16.4	15.5	14.0
Grand Mean		3.60	2.89	2.79	3.30	2.78	3.66	3.26	3.15	3.64	3.97	4.92	5.22

Michigan Sugar Company
Cercorpora Variety Trial
 B&B Farm, Saginaw, MI - 2008

Trial Validity: Fair

No.	Variety	Avg 6	0-9 Cercospora Ratings					
			16-Sep	16-Sep	18-Sep	20-Sep	29-Sep	2-Oct
34	HM 9051RR	2.10	1.45	2.12	1.51	2.66	2.58	2.26
16	BTS 18RR26	2.14	1.50	2.40	1.60	2.80	2.06	2.50
33	HM 9050RR	2.15	1.52	2.20	1.50	2.65	2.52	2.50
9	Crystal R442	2.18	1.60	2.20	1.80	2.60	2.38	2.50
15	BTS 18RR16	2.19	1.56	2.45	1.80	2.60	2.30	2.40
32	HM 9042RR	2.29	1.74	2.60	1.70	2.70	2.50	2.50
2	Beta 5930R	2.34	1.94	2.52	1.77	2.51	2.36	2.91
41	HM 9131RR	2.34	1.72	2.15	1.90	2.85	2.90	2.50
45	SX 1281RR	2.37	1.92	2.30	1.90	3.05	2.56	2.50
35	HM 9055RR	2.41	1.91	2.30	1.98	2.75	2.81	2.71
42	HM 9133RR	2.41	1.82	2.15	2.00	2.85	2.84	2.80
5	Crystal R509	2.41	1.82	2.38	1.70	2.69	2.96	2.91
23	Crystal RR840	2.51	1.86	2.60	2.00	2.65	2.96	3.00
39	HM 9116RR	2.52	1.96	2.25	2.10	3.00	2.88	2.90
7	HM 2788NT	2.58	2.24	2.65	2.00	3.30	2.86	2.40
11	HM 2771Rz	2.59	2.16	2.70	1.90	3.00	2.76	3.00
38	HM 9110RR	2.62	2.22	2.40	2.10	3.05	3.04	2.90
10	HM 7172Rz	2.65	2.18	2.60	2.20	3.00	2.94	3.00
44	SX 1260RR	2.68	2.20	2.45	2.20	3.13	3.16	2.91
43	HM 9151RR	2.68	2.20	2.55	2.30	2.90	3.12	3.00
27	HM 27RR	2.74	2.37	2.40	2.15	3.14	3.21	3.16
28	HM 28RR	2.79	2.26	2.65	2.00	3.30	3.24	3.30
40	HM 9130RR	2.82	2.44	2.55	2.30	3.30	3.10	3.20
29	HM 29RR	2.82	2.42	2.40	2.40	3.30	3.20	3.20
31	HM 9039RR	2.85	2.36	2.60	2.40	3.30	3.26	3.20
4	Beta 5670R	2.89	2.48	3.05	2.10	3.40	2.90	3.40
8	SX 1233	2.90	2.40	3.00	2.30	3.40	3.10	3.20
1	Beta 5833R	2.90	2.46	2.75	2.30	3.05	3.36	3.50
36	HM 9080RR	2.92	2.66	2.70	2.40	3.25	3.22	3.30
46	SX 1282RR	3.04	3.02	2.70	2.57	3.32	3.33	3.29
37	HM 9084RR	3.05	2.82	2.60	2.50	3.35	3.50	3.50
25	Crystal RR 898	3.10	2.60	2.95	2.40	3.40	3.32	3.90
14	BTS 18RR06	3.19	2.52	3.15	2.30	3.55	3.70	3.90
30	HM 9032RR	3.24	2.78	3.15	2.80	3.40	3.50	3.80
24	Crystal RR848	3.24	2.70	3.32	2.57	3.44	3.61	3.79
6	Crystal R689	3.26	2.80	3.00	2.60	3.65	3.82	3.70
26	Crystal RR877	3.35	2.82	3.05	2.70	3.70	3.62	4.20
3	Beta 1643N	3.47	2.82	3.26	2.57	3.50	3.97	4.04
21	Crystal RR808	3.48	3.10	3.45	2.70	3.65	4.10	3.90
18	BTS 18RR46	3.59	2.89	3.75	3.11	3.80	3.75	4.23
20	Crystal RR827	3.64	3.15	3.20	2.82	3.88	4.38	4.41
13	BTS 17RR62	3.66	3.02	3.70	2.70	3.88	4.48	4.16
19	BTS 18RR66	3.66	3.31	3.43	2.60	4.25	4.19	4.21
17	BTS 18RR36	3.83	3.03	3.92	2.95	4.05	4.62	4.40
12	BTS 17RR32	3.86	3.30	4.06	3.01	3.91	4.36	4.51
22	Crystal RR824	4.40	4.47	4.16	3.23	4.17	5.69	4.65
LSD (P=.05)		0.50	0.67	0.66	0.49	0.59	0.57	0.70
CV		13.7	22.1	18.8	17.5	14.6	13.8	17.0
Grand Mean		2.89	2.40	2.80	2.26	3.23	3.28	3.28

Michigan Sugar Company
Rhizoctonia Nursery Michigan
 Average of 2 Years

No.	Variety	Rhizoc Root Rot Rating ¹ 0-7 Scale
1	Beta 5833R	3.99
5	Crystal R509	4.18
27	HM 27RR	4.40
31	HM 9039RR	4.58
32	HM 9042	4.91
28	HM 28RR	4.91
29	HM 29RR	5.02
33	HM 9050RR	5.12
44	SX 1260RR	5.19
13	BTS 17RR62	5.23
12	BTS 17RR32	5.32
2	Beta 5930R	5.33
34	HM 9051RR	5.34
30	HM 9032RR	5.42
8	SX 1233	5.49
35	HM 9055RR	5.58
3	Beta 1643N	5.64
20	Crystal RR827	5.67
LSD (P=.05)		0.94
Standard Deviation		0.44
Grand Mean		5.07

Michigan Sugar Company
Rhizoctonia Nurseries
Blumfield and BB Farm, 2008

Trial Quality: Good

<u>Average 2</u>		<u>Blumfield</u>		<u>BB Farm</u>				
No. Variety	Rhizoc Rate	No. Variety	Rhizoc Rate	No. Variety	Rhizoc Rate			
6	Crystal R689	4.69	26	Crystal RR877	4.54	6	Crystal R689	4.76
19	BTS 18RR66	4.70	6	Crystal R689	4.62	19	BTS 18RR66	4.78
26	Crystal RR877	4.71	19	BTS 18RR66	4.62	26	Crystal RR877	4.87
27	HM 27RR	5.08	27	HM 27RR	4.92	1	B 5833R	5.10
1	B 5833R	5.26	37	HM 9084RR	4.93	29	HM 29RR	5.24
31	HM 9039RR	5.28	32	HM 9042RR	5.06	27	HM 27RR	5.24
29	HM 29RR	5.35	31	HM 9039RR	5.06	41	HM 9131RR	5.47
41	HM 9131RR	5.36	42	HM 9133RR	5.10	31	HM 9039RR	5.49
37	HM 9084RR	5.40	28	HM 28RR	5.16	25	Crystal RR898	5.60
28	HM 28RR	5.40	41	HM 9131RR	5.24	28	HM 28RR	5.65
42	HM 9133RR	5.45	33	HM 9050RR	5.33	5	Crystal R509	5.69
32	HM 9042RR	5.49	44	SX 1260RR	5.38	15	BTS 18RR16	5.75
34	HM 9051RR	5.64	38	HM 9110RR	5.40	42	HM 9133RR	5.80
25	Crystal RR898	5.65	1	B 5833R	5.41	45	SX 1281RR	5.82
38	HM 9110RR	5.65	34	HM 9051RR	5.42	36	HM 9080RR	5.84
46	SX 1282RR	5.70	46	SX 1282RR	5.44	34	HM 9051RR	5.85
45	SX 1281RR	5.74	29	HM 29RR	5.46	37	HM 9084RR	5.86
5	Crystal R509	5.75	16	BTS 18RR26	5.58	18	BTS 18RR46	5.88
44	SX 1260RR	5.76	45	SX 1281RR	5.65	2	B 5930R	5.91
33	HM 9050RR	5.78	4	B 5670R	5.68	38	HM 9110RR	5.91
39	HM 9116RR	5.81	39	HM 9116RR	5.68	32	HM 9042RR	5.93
15	BTS 18RR16	5.82	25	Crystal RR898	5.69	39	HM 9116RR	5.95
36	HM 9080RR	5.83	23	Crystal RR840	5.75	24	Crystal RR848	5.95
16	BTS 18RR26	5.86	5	Crystal R509	5.81	46	SX 1282RR	5.96
4	B 5670R	5.86	2	B 5930R	5.81	23	Crystal RR840	5.98
2	B 5930R	5.86	36	HM 9080RR	5.82	4	B 5670R	6.04
23	Crystal RR840	5.86	35	HM 9055RR	5.84	43	HM 9151RR	6.05
18	BTS 18RR46	5.96	30	HM 9032RR	5.88	8	SX 1233	6.05
43	HM 9151RR	5.98	15	BTS 18RR16	5.90	35	HM 9055RR	6.11
35	HM 9055RR	5.98	43	HM 9151RR	5.91	30	HM 9032RR	6.13
30	HM 9032RR	6.00	12	BTS 17RR32	5.99	16	BTS 18RR26	6.14
24	Crystal RR848	6.04	13	BTS 17RR62	6.00	14	BTS 18RR06	6.14
13	BTS 17RR62	6.08	21	Crystal RR808	6.00	44	SX 1260RR	6.14
14	BTS 18RR06	6.08	14	BTS 18RR06	6.02	13	BTS 17RR62	6.15
8	SX 1233	6.10	18	BTS 18RR46	6.05	3	B 1643N	6.16
12	BTS 17RR32	6.16	20	Crystal RR827	6.05	7	HM 2788NT	6.21
20	Crystal RR827	6.17	17	BTS 18RR36	6.11	33	HM 9050RR	6.22
21	Crystal RR808	6.17	24	Crystal RR848	6.13	17	BTS 18RR36	6.25
17	BTS 18RR36	6.18	8	SX 1233	6.16	40	HM 9130RR	6.25
3	B 1643N	6.18	22	Crystal RR824	6.16	20	Crystal RR827	6.29
40	HM 9130RR	6.22	40	HM 9130RR	6.18	22	Crystal RR824	6.33
7	HM 2788NT	6.22	3	B 1643N	6.20	12	BTS 17RR32	6.34
22	Crystal RR824	6.24	7	HM 2788NT	6.23	21	Crystal RR808	6.35
LSD (P=.05)	0.436	LSD (P=.05)	0.536	LSD (P=.05)	0.574			
CV	3.77	CV	7.62	CV	8.67			
Grand Mean	5.73	Grand Mean	5.61	Grand Mean	5.85			

Rating Scale:

- 0 = No Symptoms
- 1 = Minor lesions
- 2 = Shallow lesions (2-5% rot)
- 3 = Deep dry rot (5-25% rot)
- 4 = Up to 50% rot
- 5 = Up to 75% rot
- 6 = Almost all rotted with a few green leaves
- 7 = Completely rotted or missing beet

Inoculated with Rhizoc strain Ag 2-2 inoculum on barley. 1 gram per ft of row. July 18 both locations.

Evaluated Blumfield on Aug 18 and BB Farm on Aug 27. Ratings conducted by Michigan Sugar Agronomists, USDA and Michigan State Scientists.

Thanks to Hilleshog and Doug Ruppel for digging the trials.

Rhizoctonia Nursery

Average of 2 Years

2007-2008

USDA, Ft. Collins, CO

		DI ¹		Average of 2 years
		2008	2007	
	Highly Resistant Check	2.7	1.3	2.00
	Highly Resistant Check	2.8	2.3	2.55
	Resistant Check	3.3	2.2	2.75
31	HM 9039RR	2.6	3.4	3.00
1	Beta 5833R	3.3	2.9	3.10
5	Crystal R509	3.9	2.4	3.15
28	HM 28RR	3.2	3.1	3.15
29	HM 29RR	3.9	2.6	3.25
27	HM 27RR	3.8	3.2	3.50
32	HM 9042RR	4.1	3.2	3.65
35	HM 9055RR	3.8	4.1	3.95
33	HM 9050RR	3.8	4.1	3.95
2	Beta 5930R	3.9	4.1	4.00
30	HM 9032RR	4.2	3.8	4.00
44	SX 1260RR	4.9	3.2	4.05
	Susceptible Check	4.1	4.4	4.25
13	BTS 17RR62	5.1	4.0	4.55
34	HM 9051RR	5.2	3.9	4.55
8	SX 1233	5.2	3.9	4.55
12	BTS 17RR32	5.4	3.7	4.55
20	Crystal RR827	5.7	4.7	5.20
3	Beta 1643N	5.9	4.5	5.20
	Highly Susceptible Check		3.2	
	Mean	4.20*	3.50*	3.85
	LSD ²	1.23		
	CV	23.6		

1. Disease Index is based on a scale of 0 (=healthy) to 7 (=plant dead).

2. P=0.05; NS = no significant differences

* Mean of all varieties tested.

Rhizoctonia Nursery

2008

USDA, Ft. Collins, CO

	DI ¹	% Hlthy ²	% 0 - 3 ³	Z% ⁴ Hlthy	Z% 0 - 3 ⁴
31 HM 9039RR	2.6	5	50	7.9	45.1
Highly Resistant Check	2.7	3	63	4.2	53.0
Highly Resistant Check	2.8	4	68	7.4	59.0
28 HM 28RR	3.2	2	35	3.5	35.9
19 BTS 18RR66	3.2	5	37	5.7	33.7
Resistant Check	3.3	0	44	0.0	41.7
1 Beta 5833R	3.3	3	32	4.9	31.2
45 SX 1281RR	3.4	0	30	0.0	29.3
24 Crystal RR848	3.5	7	37	7.0	33.9
38 HM 9110RR	3.6	4	21	5.3	24.7
37 HM 9084RR	3.6	0	17	0.0	19.4
14 BTS 18RR06	3.6	0	26	0.0	29.7
6 Crystal R689	3.7	0	33	0.0	31.2
36 HM 9080RR	3.8	0	12	0.0	15.7
35 HM 9055RR	3.8	0	18	0.0	21.7
27 HM 27RR	3.8	2	21	3.3	24.0
33 HM 9050RR	3.8	0	33	0.0	28.6
2 Beta 5930R	3.9	6	29	7.5	27.9
5 Crystal R509	3.9	0	23	0.0	25.7
29 HM 29RR	3.9	0	26	0.0	30.0
41 HM 9131RR	4.0	0	17	0.0	22.9
46 SX 1282RR	4.0	0	17	0.0	21.5
18 BTS 18RR46	4.0	0	17	0.0	19.0
Susceptible Check	4.1	0	17	0.0	20.9
32 HM 9042RR	4.1	0	23	0.0	25.4
26 Crystal RR877	4.1	2	20	3.3	23.3
30 HM 9032RR	4.2	0	31	0.0	27.8
15 BTS 18RR16	4.3	0	11	0.0	12.1
42 HM 9133RR	4.4	0	9	0.0	15.7
39 HM 9116RR	4.4	0	15	0.0	17.4
7 HM 2788NT	4.4	0	20	0.0	20.9
43 HM 9151RR	4.5	0	6	0.0	9.4
4 Beta 5670R	4.5	0	13	0.0	16.5
17 BTS 18RR36	4.8	0	9	0.0	11.0
16 BTS 18RR26	4.8	0	11	0.0	12.6
44 SX 1260RR	4.9	0	5	0.0	8.6
25 Crystal RR898	5.0	0	12	0.0	15.3
13 BTS 17RR62	5.1	0	13	0.0	11.0
22 Crystal RR824	5.2	0	11	0.0	17.4
34 HM 9051RR	5.2	0	3	0.0	4.4
8 SX 1233	5.2	0	15	0.0	16.5
21 Crystal RR808	5.2	0	2	0.0	3.9
40 HM 9130RR	5.4	0	0	0.0	0.0
23 Crystal RR840	5.4	0	5	0.0	8.5
12 BTS 17RR32	5.4	0	4	0.0	5.5
20 Crystal RR827	5.7	0	5	0.0	8.2
3 Beta 1643N	5.9	0	13	0.0	13.5
Mean	4.20	1	21	1.30	21.90
LSD ⁵	1.23			NS	22.01
CV	23.55			NS	80.44

1. Disease Index is based on a scale of 0 (=healthy) to 7 (=plant dead).

2. Percent of healthy roots (disease classes 0 and 1 combined).

3. Percent of diseased roots likely to be taken for processing (disease classes 0 through 3 combined).

4. Percentages were transformed to arcsin-square roots to normalize the data for analyzes.

5. P=0.05; NS = no significant differences

Michigan Sugar Company
Nematode Variety Trial
 Vader Farm, Unionville, MI
 2008

No.	Name	Nematode Rate (0-3) ¹	Root Rate (0-3) ²	RWSA	RWST	Yield Tons/A	Emerg %
	Beta 5534N	0.55	2.17	5233	212.8	24.95	17.3
18	BTS 18RR46	0.94	2.02	6451	247.1	26.18	65.5
3	Beta 1643N	0.95	1.97	7511	253.4	29.79	53.2
7	HM 2788NT	1.47	1.17	5242	223.2	23.46	66.4
33	HM 9050RR	1.48	1.38	4193	251.2	16.72	44.2
27	HM 27RR	1.52	1.70	4310	251.4	16.99	48.4
12	BTS 17RR32	1.58	1.43	5642	254.8	22.14	64.9
1	Beta 5833R	1.62	1.62	5169	240.7	21.19	47.9
20	Crystal RR827	1.63	1.58	6537	252.4	25.91	52.8
10	HM 7172Rz	2.55	1.37	4485	255.1	17.58	62.3
LSD (P=.05)		0.49	0.33	957.6	13.00	3.78	13.00
CV		29.58	17.11	15.0	4.60	14.41	21.31
Grand Mean		1.43	1.64	5477.3	244.20	22.49	52.29

¹ Nematode Rate (0-3): 0 = no nematodes, 1 = minor infestation, 2 = easily seen
 3 = heavy nematode infestation
 Rating by Corey Guza and George Bird

² Root Rate (0-3): 0 = roots badly stunted, sprangled and/or bearded, 1 = easily seen damage (hairy roots, sprangling, stunting) on most roots, 2 = only minor to moderate damage and 3 = very minor or no symptoms
 Rating by Jim Stewart

Rhizomania Nursery
 USDA Trial, Salinas, CA - 2008

Trial Validity: Fair

No	Variety	Rhizom DI ¹	Rhizom (0-4) ²	Yield Tons/A
29	Crystal RR877	4.3	57.1	37.1
32	BTS 18RR46	4.8	41.3	36.7
12	HM 9032RR	4.6	56.1	36.0
13	BTS 18RR66	4.8	46.4	35.7
22	Crystal R689	4.1	66.1	35.7
15	HM 9084RR	4.4	57.4	35.1
3	Crystal RR824	4.8	50.6	34.3
14	HM 9039RR	4.2	60.1	34.2
26	Beta 5670R	5.0	48.0	34.1
31	SX 1282RR	4.3	61.4	33.9
1	BTS 18RR16	4.8	45.8	33.4
8	HM 9080RR	5.2	45.1	33.4
23	HM 9151RR	4.8	48.8	33.3
5	Beta 1643N	5.3	38.2	33.3
39	Beta G017R (Res. Check)	4.1	60.9	33.3
27	BTS 17RR32	4.7	55.0	33.2
18	BTS 17RR62	4.7	52.3	33.0
4	HM 9130RR	4.8	48.2	32.8
6	HM 9133RR	5.3	35.6	32.6
34	Crystal RR827	5.7	31.7	32.5
20	Crystal RR848	4.3	57.6	31.9
2	SX 1260RR	4.6	55.6	31.7
36	Crystal RR808	5.6	35.1	31.6
33	SX 1281RR	5.4	44.6	31.6
11	BTS 18RR36	4.8	46.4	31.1
10	HM 9110RR	5.5	38.9	30.7
30	HM 2788NT	6.2	23.1	30.7
7	Crystal RR898	4.9	37.5	30.1
24	Crystal RR840	4.9	44.0	29.7
25	HM 9131RR	5.0	44.1	29.5
21	HM 9116RR	5.2	43.5	29.3
19	HM 9055RR	5.5	38.1	28.9
16	BTS 18RR06	4.6	53.7	28.8
28	HM 9050RR	5.7	32.8	27.5
35	BTS 18RR26	5.0	35.5	27.2
9	HM 9051RR	5.9	35.4	26.8
17	HM 9042RR	6.2	25.2	25.4
37	Monohikari (Susc. Check)	5.6	32.3	23.8
38	Roberta (Susc. Check)	6.4	23.4	23.2
Mean		5.00	46.10	31.59
LSD 5%		0.50	10.40	2.89
CV %		11.80	28.10	11.40

¹ Rhizom DI = 0 to 9 Scale
 0 = No Disease
 9 = Dead Beets

Rhizomania Disease Index (DI)
 was considered to be the most
 reliable indicator of Rhizomania
 resistance in this trial.

² Percent of beets in categories
 0 through 4 - considered
 Rhizomania resistant.

Aphanomyces Nursery

Betaseed, Shakopee, M
2007 and 2008 Combined

No.	Variety	Root Rating (1-9)*
1	APH TOLERANT HYBRID 1	2.98
2	APH TOLERANT HYBRID 2 (ACH 555)	3.60
8	Beta 1643N	3.65
5	HM 9032RR	3.74
4	Beta 5833R	3.91
7	HM 9055RR	3.99
11	BTS 17RR32	4.01
13	Crystal RR827	4.04
6	Crystal R509	4.06
14	SX 1233	4.06
12	HM 29RR	4.09
10	SX 1260RR	4.11
3	HM 9039RR	4.15
16	HM 28RR	4.18
17	HM 9051RR	4.23
20	HM 9050RR	4.26
15	HM 9042RR	4.26
18	Beta 5930R	4.29
9	HM 27RR	4.29
19	BTS 17RR62	5.21
21	APH MODERATELY SUSCEPTIBLE	5.67
22	APH VERY SUSCEPTIBLE	6.37
LSD (P=.05)		0.99
CV		11.25
Grand Mean		4.23

* A lower number indicates more resistance.

Aphanomyces Nursery

Betaseed, Shakopee, MN - 2008

No	Variety	Aphanomyces Ratings		Stand
		Root (1-9) ¹	Foliar (1-9)	Loss ² %
	APH TOLERANT HYBRID 1	3.25	1.79	6
19	BTS 18RR66	3.55	2.04	18
16	BTS 18RR26	3.72	1.93	29
43	HM 9151RR	3.78	2.36	19
	APH TOLERANT HYBRID 2 (ACH 555)	3.80	1.92	15
31	HM 9039RR	3.82	2.11	22
46	SX 1282RR	3.86	1.99	24
21	Crystal RR808	3.90	1.90	15
1	Beta 5833R	3.92	2.38	19
30	HM 9032RR	3.93	1.83	20
24	Crystal RR848	3.95	2.42	32
17	BTS 18RR36	3.96	2.26	23
26	Crystal RR877	3.98	2.29	19
5	Crystal R509	4.01	2.45	22
45	SX 1281RR	4.03	1.83	21
18	BTS 18RR46	4.03	2.38	30
39	HM 9116RR	4.06	2.35	30
35	HM 9055RR	4.06	2.47	31
3	Beta 1643N	4.06	2.55	25
27	HM 27RR	4.08	2.69	30
6	Crystal R689	4.12	2.14	24
44	SX 1260RR	4.12	2.77	32
12	BTS 17RR32	4.14	2.28	30
29	HM 29RR	4.15	2.36	31
23	Crystal RR840	4.16	2.00	29
20	Crystal RR827	4.18	2.47	23
22	Crystal RR824	4.19	2.20	29
8	SX 1233	4.20	2.18	23
32	HM 9042RR	4.21	2.28	33
41	HM 9131RR	4.23	2.25	30
36	HM 9080RR	4.25	2.58	33
15	BTS 18RR16	4.26	2.45	35
28	HM 28RR	4.27	2.10	29
14	BTS 18RR06	4.36	2.32	19
34	HM 9051RR	4.38	2.25	35
2	Beta 5930R	4.38	2.58	38
42	HM 9133RR	4.38	2.79	38
37	HM 9084RR	4.44	2.47	33
38	HM 9110RR	4.47	2.60	28
13	BTS 17RR62	4.49	2.56	25
25	Crystal RR898	4.53	2.72	29
33	HM 9050RR	4.59	2.20	19
4	Beta 5670R	4.87	3.17	25
40	HM 9130RR	4.98	2.93	26
7	HM 2788NT	5.14	2.85	30
	APH MODERATELY SUSCEPTIBLE	6.66	4.36	39
	APH VERY SUSCEPTIBLE	7.08	4.36	51
	LSD 5%	0.60	0.77	
	CV %	12.03	27.16	
	Mean	4.19	2.37	

¹ 1 = no damage, 9 = dead

² percent of plants that died from June 6 to August 12

Root Aphid Nursery
Betaseed, Shakopee, MN - 2008

No.	Variety	1-4 Rating	% Resistant
25	Crystal RR898	1.03	100.0
14	BTS 18RR06	1.03	100.0
17	BTS 18RR36	1.20	93.3
24	Crystal RR848	1.27	93.3
33	HM 9050RR	1.27	93.3
12	BTS 17RR32	1.33	86.7
3	Beta 1643N	1.37	86.7
6	Crystal R689	1.37	86.7
5	Crystal R509	1.45	82.8
42	HM 9133RR	1.57	76.7
21	Crystal RR808	1.60	76.7
19	BTS 18RR66	1.70	76.7
4	Beta 5670R	1.70	76.7
26	Crystal RR877	1.77	70.0
13	BTS 17RR62	1.80	73.3
22	Crystal RR824	1.82	67.9
30	HM 9032RR	1.83	73.3
34	HM 9051RR	1.87	63.3
32	HM 9042RR	1.90	70.0
20	Crystal RR827	1.93	66.7
2	Beta 5930R	2.00	66.7
1	Beta 5833R	2.03	60.0
43	HM 9151RR	2.10	56.7
16	BTS 18RR26	2.20	53.3
29	HM 29RR	2.27	56.7
41	HM 9131RR	2.33	46.7
36	HM 9080RR	2.37	50.0
18	BTS 18RR46	2.37	43.3
45	SX 1281RR	2.40	46.7
15	BTS 18RR16	2.43	46.7
8	SX 1233	2.47	46.7
39	HM 9116RR	2.50	36.7
38	HM 9110RR	2.57	36.7
44	SX 1260RR	2.60	40.0
23	Crystal RR840	2.63	46.7
46	SX 1282RR	2.63	36.7
37	HM 9084RR	2.73	30.0
28	HM 28RR	2.79	31.0
31	HM 9039RR	2.80	23.3
27	HM 27RR	2.80	30.0
35	HM 9055RR	2.87	33.3
7	HM 2788NT	3.00	23.3
40	HM 9130RR	3.10	13.8

1 = Excellent Tolerance
1.5 = Good to Exc Tolerance
2 = Good Tolerance
2.5 = Fair Tolerance
3.0 = Fair to Poor Tolerance
4 = Poor Tolerance

% Resistant Column: The % of plants that rank in category 1 or 2 which are the resistant categories.



On Farm Research and Demonstration

Partnership of: Sugar Beet Growers
Michigan Sugar Company
Michigan State University
Agribusiness

2008 VARIETY TRIAL

Cooperator:	Brian Fox	Tillage:	Fall Plow - Danish Tine 2x
Location:	Ontario	Harvest Date:	10/28/2008
Planting Date:	4/24/2008	Sample Date:	10/28/2008
Previous Crop:	Corn	Herbicides:	Roundup 2x
Soil Type:	Clay Loam	Replicated:	4x
Row Spacing:	30"	Seed Spacing:	4.25"
Fertilizer:	10 gal. 28% Banded over row Broadcast 8-39-120 variable 60 lbs. N Sidedress A.A.	Fungicide:	Headline (57 DSV) Senator + Dithane (112 DSV) Headline - (145 DSV)

VARIETY	RWSA	TONS / ACRE	RWST	% SUGAR	% CJP	POPULATIONS 100 Ft. of Row				RHIZ. 1200 Ft. of Row
						11 DAY	20 DAY	30 DAY	HARV.	
HM-28RR	11436	37.92	302	19.5	96.9	66	244	250	244	4
C-RR827	11398	36.62	311	20.2	96.8	106	230	236	229	34
HM-29RR	11289	37.20	304	19.8	96.5	78	235	240	238	1
HM-27RR	11222	36.80	305	19.9	96.6	70	242	245	236	0
AVERAGE	11336	37.13	305	19.8	96.7	80	238	243	237	10
LSD (5%)	NS 369	NS 1.10	6	0.3	0.2	NS 52	NS 13	NS 13	NS 16	7
C.V. (%)	2	1.90	1	0.9	0.2	41	3	3	4	46

TRIAL RELIABILITY: Excellent

EMERGENCE:	Excellent 41,000 plants/acre	CERC. LEAF SPOT:	Good
RHIZOCTONIA:	Low	NEMATODES:	None
QUADRIS APP:	No	WEATHER:	Good Moisture

Comments: Very high yielding trial. Harvest population averaged over 41,000 plants per acre. Good soil moisture conditions. Minimal disease problems. In some situations, C-RR827 may require an additional Cercospora Leaf Spot spray.

Cooperating Agriculturist: Wayne Martin, Michigan Sugar Company
Janice LeBoeuf, Ontario Ministry of Agriculture



On Farm Research and Demonstration

Partnership of: Sugar Beet Growers
Michigan Sugar Company
Michigan State University
Agribusiness

2008 VARIETY TRIAL

Cooperator:	Wadsworth Farms, Inc.	Tillage:	Fall Chisel - Field Cultivate 1x
Location:	Sandusky, Sanilac County	Harvest Date:	11/11/2008
Planting Date:	4/22/2008	Sample Date:	10/10/2008
Previous Crop:	Dry Beans	Herbicides:	Roundup 3x
Soil Type:	Loam	Replicated:	4x
Row Spacing:	28"	Seed Spacing:	4"
Fertilizer:	250# 15-20-3 plus micros 80# Anhydrous sidedress Variable rate 0-0-60 Fall	Fungicide:	Proline (63 DSV) Gem (126 DSV) Headline (160 DSV)

VARIETY	RWSA	TONS / ACRE	RWST	% SUGAR	% CJP	POPULATIONS				RHIZ. 1200 Ft. of Row
						100 Ft. of Row				
						10 DAY	21 DAY	31 DAY	HARV.	
HM-29RR	8696	33.28	261	17.3	96.2	29	189	238	208	277
HM-27RR	8678	33.03	263	17.4	96.2	36	196	248	220	208
HM-28RR	8431	33.77	250	16.7	95.9	14	192	245	201	381
CRR827	7554	26.24	288	19.0	96.1	9	165	243	143	881
AVERAGE	8339	31.58	266	17.6	96.1	22	185	243	193	437
LSD (5%)	525	1.49	14	0.8	NS 0.6	19	NS 27	NS 14	29	162
C.V. (%)	4	2.95	3	2.7	0.4	53	9	4	10	23

TRIAL RELIABILITY: **Excellent**

EMERGENCE: Excellent - 43,000 Plants/Acre	CERC. LEAF SPOT: Excellent
RHIZOCTONIA: Heavy	NEMATODES: Not Detected
QUADRIS APP: No	WEATHER: Very Good Moisture

Comment: Trial was planted under good soil conditions. This trial did not have any Quadris applied for Rhizoctonia control. Severity of Rhizoctonia would be considered heavy. Variety C-RR827 was most impacted by Rhizoctonia reducing the stand by 40%. In comparison HM-27RR is the most Rhizoctonia resistant variety with a stand reduction of 11%. The other two varieties are moderate in resistance with HM-28RR at 18% and HM-29RR with 13% reduction of stand. In some situations, C-RR827 may require an additional Cercospora Leaf Spot spray.

Cooperating Agriculturist: Paul Wheeler, Michigan Sugar Company



On Farm Research and Demonstration

Partnership of: Sugar Beet Growers
Michigan Sugar Company
Michigan State University
Agribusiness

2008 VARIETY TRIAL

Cooperator:	Randy Sturm	Tillage:	Fall Chisel - Field Cultivator 2x
Location:	Pigeon, Huron County	Harvest Date:	10/17/2008
Planting Date:	4/22/2008	Sample Date:	9/22/2008
Previous Crop:	Wheat	Herbicides:	Roundup 2x
Soil Type:	Clay Loam	Replicated:	4x
Row Spacing:	28"	Seed Spacing:	4"
Fertilizer:	479# 5-16-34+micros broadcast; 22 gal. 28%+ Thio-Sol broadcast; 20 gal. 28% sidedress	Fungicide:	Proline 68 (DSV) Headline 142 (DSV)

VARIETY	RWSA	TONS / ACRE	RWST	% SUGAR	% CJP	POPULATIONS 100 Ft. of Row				RHIZ. 1200 Ft. of Row
						13 DAY	20 DAY	30 DAY	HARV.	
HM-27RR	8451	32.43	260	17.7	94.7	57	127	192	183	19
HM-29RR	8260	32.80	252	17.3	94.5	111	156	185	178	98
C-RR827	8175	29.83	274	18.4	95.2	55	109	178	165	172
HM-28RR	8088	32.07	252	17.2	94.8	53	122	179	173	101
AVERAGE	8244	31.78	260	17.7	94.8	69	128	183	175	97
LSD (5%)	NS 702	1.98	10	0.6	0.4	40	37	NS 26	NS 24	94
C.V. (%)	5	3.90	2	2.0	0.3	36	18	9	9	60

TRIAL RELIABILITY: Excellent

EMERGENCE:	Excellent - 34,000 Plants/Acre	CERC. LEAF SPOT:	Good
RHIZOCTONIA:	Moderate - Affected Yield	NEMATODES:	Not Found
QUADRIS APP:	None	WEATHER:	Excellent

Comments: Trial was planted into good soil conditions. Severity of Rhizoctonia would be considered moderate and negatively effected yield particularly in the most susceptible variety. In some situations, C-RR827 may require an additional Cercospora Leaf Spot spray.

Cooperating Agriculturist: Roger Elston, Michigan Sugar Company



On Farm Research and Demonstration

Partnership of: Sugar Beet Growers
Michigan Sugar Company
Michigan State University
Agribusiness

2008 VARIETY TRIAL

Cooperator:	Loren & Josh Humm	Tillage:	Fall Chisel - Field Cultivator 2x
Location:	Ithaca, Gratiot County	Harvest Date:	10/31/2008
Planting Date:	4/26/2008	Sample Date:	10/13/2008
Previous Crop:	Corn	Herbicides:	Roundup 3x
Soil Type:	Loam	Replicated:	4x
Row Spacing:	28"	Seed Spacing:	4"
Fertilizer:	10 gal. 22-11-0, 2 x 2; 104 lbs. N, Urea/ESN	Fungicide:	Eminent (98 DSV) Kocide 3000 (129 DSV)

VARIETY	RWSA	TONS / ACRE	RWST	% SUGAR	% CJP	POPULATIONS 100 Ft. of Row				RHIZ. 1200 Ft. of Row
						17 DAY	20 DAY	30 DAY	HARV.	
C-RR827	7367	26.69	276	18.7	94.9	42	69	119	125	28
HM-29RR	6786	25.90	262	17.8	94.7	63	92	133	143	0
HM-27RR	6608	24.97	265	18.0	94.8	54	88	137	153	0
HM-28RR	6543	25.42	257	17.5	95.0	54	83	134	148	1
AVERAGE	6826	25.74	265	18.0	94.8	53	83	131	142	7
LSD (5%)	461	1.67	7	0.5	NS 0.6	NS 33	NS 39	NS 26	NS 26	18
C.V. (%)	4	4.05	2	1.8	0.4	39	30	12	11	149

TRIAL RELIABILITY: Excellent

EMERGENCE:	Fair - 27,000 Plants /Acre	CERC. LEAF SPOT:	Good
RHIZOCTONIA:	Very Low	NEMATODES:	None Detected
QUADRIS APP:	Yes, 8-12 Leaf	WEATHER:	Dry Season

Comments: Trial was planted in marginally dry soil conditions and was relatively slow to emerge. Stand establishment was adequate but lower than other variety trials. Growing conditions during the season were dry compared to other growing areas. In some situations, C-RR827 may require an additional Cercospora Leaf Spot spray.

Cooperating Agriculturist: Wayne Davis, Michigan Sugar Company



On Farm Research and Demonstration

Partnership of: Sugar Beet Growers
Michigan Sugar Company
Michigan State University
Agribusiness

2008 VARIETY TRIAL AVERAGES

Cooperator:	Average of 4 Variety Trials	Tillage:	
Location:	Ontario, Pigeon, Sandusky, Ithaca	Harvest Date:	
Planting Date:		Sample Date:	
Previous Crop:		Herbicides:	
Soil Type:		Replicated:	
Row Spacing:		Seed Spacing:	
Fertilizer:		Fungicide:	

VARIETY	RWSA	TONS / ACRE	RWST	% SUGAR	% CJP	POPULATIONS 100 Ft. of Row				RHIZ. 1200 Ft. of Row
						EARLY	MID	FINAL	HARV.	
HM-29RR	8758	32.30	270	18.1	95.5	70	168	199	192	94
HM-27RR	8740	31.81	273	18.2	95.6	54	163	206	198	57
HM-28RR	8625	32.30	265	17.7	95.7	47	160	202	192	122
C-RR827	8624	29.85	287	19.1	95.7	53	143	194	166	279
AVERAGE	8686	31.56	274	18.3	95.6	56	159	200	187	138
LSD (5%)	NS 614	NS 2.92	8	0.5	NS 0.3	28	15	7	24	224
C.V. (%)	4	5.78	2	1.7	0.2	NS 32	6	2	7	102

TRIAL RELIABILITY: Excellent

EMERGENCE: Excellent	CERC. LEAF SPOT:
RHIZOCTONIA:	NEMATODES:
QUADRIS APP:	WEATHER:

Comments: See individual trials for specific location data. In some situations, C-RR827 may require an additional Cercospora Leaf Spot spray.

2008 NEMATODE/RADISH VARIETY TRIAL

Cooperator:	LAKKE Ewald	Tillage:	Fall Plow - Field Cultivate
Location:	Unionville	Harvest Date:	9/23/2008
Planting Date:	4/19/2008	Sample Date:	9/18/2008
Previous Crop:	Wheat/Oil Seed Radish	Herbicides:	Microrate 4x
Soil Type:	Loam	Replicated:	4
Row Spacing:	22"	Seed Spacing:	4.5
Fertilizer:	10 gal. 28-0-0 + Micros 30 gal. 28-0-0 Broadcast	Fungicide:	Proline (41 DSV) Gem (83 DSV) Inspire (135 DSV)

TREATMENT	RWSA	TONS / ACRE	RWST	% SUGAR	% CJP
B-5534N - Oilseed Radish	7675	29.21	263	17.4	96.3
B-5534N - No Oilseed	6551	26.12	251	16.6	96.2
LSD (5%)	396	1.87	7	0.3	NS 0.5
C.V. (%)	2	3.00	1	0.7	0.2

TREATMENT	RWSA	TONS / ACRE	RWST	% SUGAR	% CJP
B-5833R - Radish	4893	20.60	237	15.9	96.0
B-5833R - No Radish	3017	13.80	218	14.7	96.0
LSD (5%)	871	3.53	6	0.3	NS 1.3
C.V. (%)	10	9.10	1	0.8	0.6

TRIAL RELIABILITY: Excellent

EMERGENCE: Excellent	CERC. LEAF SPOT: Very Good
RHIZOCTONIA: Low	NEMATODES: High
QUADRIS APP: Yes	WEATHER:

Comments: These two trials were conducted in the same split field with high levels of sugarbeet cyst nematodes. Oilseed radish was planted in strips in wheat stubble late summer of 2007. The nematode resistant variety B-5534N was planted on one half of the field and the susceptible variety B-5833R was planted on the other half. Where radish was planted yields were significantly higher.

Cooperating Agriculturist: Craig Rieman, Michigan Sugar Company



On Farm Research and Demonstration

Partnership of: Sugar Beet Growers
Michigan Sugar Company
Michigan State University
Agribusiness

2008 NEMATODE VARIETY TRIAL

Cooperator:	Bill Meylan	Tillage:	Fall Chisel, Triple K 1x
Location:	Auburn, Bay County	Harvest Date:	11/1/2008
Planting Date:	4/19/2008	Sample Date:	10/6/2008
Previous Crop:	Pickles / Oat Cover Crop	Herbicides:	Split Rate 2x
Soil Type:	Loam	Replicated:	4x
Row Spacing:	30"	Seed Spacing:	4.5
Fertilizer:	2x2 - 17 gal. 19-17-0 23.5 gal. 28%	Fungicide:	Proline (48 DSV) Headline (115 DSV) Eminent (167 DSV)

VARIETY	RWSA	TONS / ACRE	RWST	% SUGAR	% CJP	POPULATIONS		
						100 Ft. of Row		
						10 DAY	20 DAY	30 DAY
B-1643N	9206	33.57	274	17.9	96.7	145	173	176
B-5833R	7003	27.03	259	17.0	96.5	180	207	210
AVERAGE	8104	30.30	267	17.5	96.6	162	190	193
LSD (5%)	690	2.00	10	0.6	NS 0.2	21	33	32
C.V. (%)	4	2.90	2	1.4	0.1	6	8	7

TRIAL RELIABILITY: Excellent

EMERGENCE: Excellent - 34,000 Plants/Acre	CERC. LEAF SPOT: Very Good
RHIZOCTONIA: Low to Moderate	NEMATODES: Heavy
QUADRIS APP: Yes, 4-6	WEATHER:

Comments: Sugarbeet Cyst nematodes can significantly reduce tonnage and quality of susceptible varieties.

Cooperating Agriculturist: Tom Schlatter, Michigan Sugar Company



On Farm Research and Demonstration

Partnership of: Sugar Beet Growers
Michigan Sugar Company
Michigan State University
Agribusiness

2008 NEMATODE VARIETY TRIAL

Cooperator:	Terry Schindler	Tillage:	Fall Chisel - Danish Tine 1x
Location:	Kawkawlin, Bay County	Harvest Date:	10/23/2008
Planting Date:	4/1/2008	Sample Date:	9/19/2008
Previous Crop:	Corn	Herbicides:	Nortron
Soil Type:	Clay Loam	Replicated:	4
Row Spacing:	22"	Seed Spacing:	4.5"
Fertilizer:	18 gal., 19-17-0 Starter 20 gal. 28% Sidedress	Fungicide:	Inspire (48 DSV) Gem (120 DSV)

VARIETY	RWSA	TONS / ACRE	RWST	% SUGAR	% CJP
B-1643N	7083	27.57	257	17.2	95.8
C-271	5844	23.31	251	17.0	95.2
AVERAGE	6463	25.44	254	17.1	95.5
LSD (5%)	1020	3.19	NS 13	NS 0.6	NS 0.7
C.V. (%)	7	5.57	2	1.5	0.3

TRIAL RELIABILITY: Good

EMERGENCE:	B-1643N Good; C-271 Fair	CERC. LEAF SPOT:	Good
RHIZOCTONIA:	Heavy - Both Varieties	NEMATODES:	Moderate
QUADRIS APP:	Yes, 2-6 Leaf	WEATHER:	----

Comments: Very heavy levels of Rhizoctonia reduced yield in both varieties.

Cooperating Agriculturist: Tom Schlatter, Michigan Sugar Company

2008 NEMATODE VARIETY TRIAL

Cooperator:	Vern Stephen	Tillage:	Fall Chisel - Field Cultivator 1x
Location:	Bay County	Harvest Date:	9/24/2008
Planting Date:	4/7/2008	Sample Date:	9/24/2008
Previous Crop:	Black Beans	Herbicides:	Nortron - Micro Rate 4x
Soil Type:	Sandy Loam	Replicated:	6x
Row Spacing:	30"	Seed Spacing:	4.2
Fertilizer:	10 gal. 19-17-0 + Micros 105 lbs., 82% at Planting 180 lbs., 0-0-60 Broadcast	Fungicide:	Gem (48 DSV) Eminent (106 DSV) Headline (151 DSV)

VARIETY	RWSA	TONS / ACRE	RWST	% SUGAR	% CJP
B-1643N	7374	29.32	252	16.9	95.6
MIX of 80% R-509 & 20% B-5833 R	6653	27.63	241	16.3	95.2
AVERAGE	7014	28.47	246	16.6	95.4
LSD (5%)	358	1.30	10	NS 0.7	NS 0.7
C.V. (%)	3	3.08	3	2.7	0.5

TRIAL RELIABILITY: Excellent

EMERGENCE: Fair	CERC. LEAF SPOT: Good
RHIZOCTONIA: Heavy	NEMATODES: Moderate
QUADRIS APP: Yes, 2-8 Leaf	WEATHER:

Comments: Rhizoctonia pressure was moderate for the mixed varieties and heavy for B-1643N. Even though Rhizoctonia was heavier in B-1643N, the nematode resistant variety out-yielded the susceptible variety mix.

Cooperating Agriculturist: Ron Meyer, Michigan Sugar Company

2008 NEMATODE VARIETY TRIAL

Cooperator:	Wegener Farms	Tillage:	Fall Plow - Danish Tine 1x
Location:	Auburn, Bay County	Harvest Date:	10/10/2008
Planting Date:	4/19/2008	Sample Date:	9/29/2008
Previous Crop:	Dry Beans	Herbicides:	Nortron - Split Rate 2x
Soil Type:	Londo Tappen Loam	Replicated:	5x
Row Spacing:	30"	Seed Spacing:	4 9/16"
Fertilizer:	15 gal., 19-17-0 Starter 250 lbs. of 33-0-0 Broadcast 200 lbs. of 0-0-60 Broadcast	Fungicide:	Proline (48 DSV) Gem (131 DSV)

VARIETY	RWSA	TONS / ACRE	RWST	% SUGAR	% CJP
B-1634N	7416	27.93	266	18.1	94.7
B-5833R	6873	26.45	260	17.6	95.0
AVERAGE	7145	27.19	263	17.9	94.8
LSD (5%)	384	0.86	NS 12	NS 0.7	0.2
C.V. (%)	3	1.80	3	2.3	0.1

TRIAL RELIABILITY: Excellent

EMERGENCE: Good	CERC. LEAF SPOT: Good
RHIZOCTONIA: Heavy	NEMATODES: Moderate
QUADRIS APP: Yes, 2-8 Leaf	WEATHER:

Comments: Field had heavy level of Rhizoctonia and moderate level of sugarbeet cyst nematode. B-1643N visually had more Rhizoctonia than B-5833R but still out-yielded it because of nematode resistance.

Cooperating Agriculturist: Tom Schlatter, Michigan Sugar Company



On Farm Research and Demonstration

Partnership of: Sugar Beet Growers
Michigan Sugar Company
Michigan State University
Agribusiness

2008 NEMATODE VARIETY TRIAL

Cooperator:	Pat Gruehn	Tillage:	Fall Chisel - Field Cultivate 1x
Location:	Sebewaing, Huron County	Harvest Date:	10/31/2008
Planting Date:	4/20/2008	Sample Date:	10/1/2008
Previous Crop:	Dry Beans	Herbicides:	Pyrimin/Dual
Soil Type:	Sandy Loam	Replicated:	5x
Row Spacing:	22"	Seed Spacing:	4.7
Fertilizer:	400 lbs, 3-14-45 Broadcast 35 gal. 28% Nitrogen	Fungicide:	Proline (53 DSV) Gem (91 DSV) Eminent (141 DSV)

VARIETY	RWSA	TONS / ACRE	RWST	% SUGAR	% CJP
B-1643N	8306	33.51	248	16.8	95.0
B-5833R	7957	31.72	251	16.9	95.4
AVERAGE	8132	32.62	249	16.9	95.2
LSD (5%)	NS 428	0.78	NS 12	NS 0.6	NS 0.8
C.V. (%)	3	1.37	3	2.0	0.5

TRIAL RELIABILITY: Excellent

EMERGENCE: Good	CERC. LEAF SPOT: Good
RHIZOCTONIA: Low	NEMATODES: Not Detected
QUADRIS APP: Yes, 2-6	WEATHER: Hail Defoliation

Comments: Trail located in a known sugarbeet cyst area. Hail defoliation caused regrowth that affected sugar content.

Cooperating Agriculturist: Jeff Elston, Michigan Sugar Company



On Farm Research and Demonstration

Partnership of: Sugar Beet Growers
Michigan Sugar Company
Michigan State University
Agribusiness

2008 NEMATODE VARIETY TRIAL

Cooperator:	Richmond Brother Farm, LLC	Tillage:	Fall Mold Board / Fall Field Cultivated Stale Seedbed Planting
Location:	Pigeon, Huron County	Harvest Date:	10/28/2008
Planting Date:	4/15/2008	Sample Date:	10/1/2008
Previous Crop:	Wheat	Herbicides:	Split Rate 2x
Soil Type:	Loam	Replicated:	5
Row Spacing:	30"	Seed Spacing:	4.3"
Fertilizer:	Starter: 5 Gal 28%, 7 Gal 10-34-0, 3 Gal Thio-sol, Mn & B. Manure - 12,000 Gal	Fungicide:	Proline (54 DSV) Gem (99 DSV) Proline (133 DSV)

VARIETY	RWSA	TONS / ACRE	RWST	% SUGAR	% CJP
B-1643N	10459	36.03	290	19.1	96.3
B-5833R	10102	36.03	281	18.5	96.1
AVERAGE	10281	36.03	285	18.8	96.2
LSD (5%)	NS 467	NS 1.36	5	0.2	NS 0.5
C.V. (%)	3	2.10	1	1.5	0.3

TRIAL RELIABILITY: Excellent

EMERGENCE: Excellent	CERC. LEAF SPOT: Excellent
RHIZOCTONIA: Light	NEMATODES: Not Detected
QUADRIS APP: Yes 4-6 Leaf	WEATHER:

Comments: B-1643N visually had more Rhizoctonia than B-5833R.

Cooperating Agriculturist: Roger Elston, Michigan Sugar Company

2008 NEMATODE VARIETY TRIAL

Cooperator:	Wasmiller Farms	Tillage:	Fall Chisel - Field Cultivator 1x
Location:	Saginaw County	Harvest Date:	9/24/2008
Planting Date:	4/21/2008	Sample Date:	9/24/2008
Previous Crop:	Corn	Herbicides:	Nortron - Micro Rate 4x
Soil Type:	Clay	Replicated:	6x
Row Spacing:	30"	Seed Spacing:	4.2
Fertilizer:	15 gal. 10-34-0 + Mn 140 lbs. N from 28%	Fungicide:	Quadris (79 DSV) Eminent (118 DSV) Headline (150 DSV) Supertin/Pencozob (169 DSV)

VARIETY	RWSA	TONS / ACRE	RWST	% SUGAR	% CJP	POPULATIONS 100 Ft. of Row		
						10 DAY	19 DAY	29 DAY
B-1643N	8949	38.65	233	16.5	93.2	69	154	183
B-5833R	9411	39.90	236	16.6	93.5	80	161	196
AVERAGE	9180	39.27	235	16.6	93.3	74	158	190
LSD (5%)	NS 941	0.77	NS 13	NS 0.8	NS 0.5	NS 33	NS 28	NS 20
C.V. (%)	5	0.90	4	3.1	0.4	30	12	7

TRIAL RELIABILITY: Excellent

EMERGENCE: Excellent - 33,000 plants/acre	CERC. LEAF SPOT: Excellent
RHIZOCTONIA: Low	NEMATODES: Low Level
QUADRIS APP: Yes	WEATHER: ---

Comments: Sugarbeet cyst nematodes were detected at low levels. In the presence of low levels or no nematodes, resistant and susceptible varieties will yield similarly.

Cooperating Agriculturist: Ron Meyer, Michigan Sugar Company