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The mission of the *Michigan Sugarbeet Research* **Education Advisory Council** is to be the central trusted source of agronomic information for the sugarbeet industry.

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

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







Extension









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2023 Variety Trial Results

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Approval of Seed Varieties

for the 2024 Crop

	Fully Approved Varieties	
	Unlimited Quantities	
BTS-1703*	HIL-9865	SX-2294*
BTS-197N	HIL-2238NT	SX-2296N
BTS-1183	HIL-2332NT	SX-2295
BTS-1122	HIL-2361	SX-2297*
C-G675*	HIL-2403	SX-2201*
C-G752NT*	MA-709*	
C-G932NT	MA-813NT*	
C-G021*		

	Limited Approval Varieties	
	Quantities limited to 10% of acres	
BTS-123N	C-G227	HIL-2425NT
BTS-1276	C-G229	MA-940
C-G214NT	C-G233	

	Special Approval Varieties	
Variety	Specialty	Quantity
BTS-128N*	CR+, Nematode, Root Disease	10%
C-G049*	CR+, Root Disease	3000 units
C-G151*	CR+, Root Disease	5000 units
C-G206NT*	CR+, Nematode, Root Disease	10%
MA-933NT*	Nematode, Root Disease	10%

^{*} Approved to plant through 2024

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Approved Varieties for 2024 2022 & 2023 Data

						Values are	e % of Chec	Values are % of Check except for Root Aphid (% Infected)	Root Aphic	I (% Infected		
Variety	Approval Status	\$/ A	ם איטיעם	DWCT	V/1	Emer	Cercos	Rhizoc	Root	Aphan	Firearing	Rhizo
			Y CAN	2002	<u> </u>	gence	pora	tonia	Aphid	omyces	rusaliulli	mania
C-G227	Limited Approval	\$2,805	107.0	99.3	107.7	111.4 G	61.0 E	102.7 G	2.1 G	95.1 G	90.8 F+	102.6 G
BTS-1122	Fully Approved	\$2,803	107.1	97.8	109.5	111.8 G	64.0 G+	120.6 F-	0.0 G	92.6 G	70.9 G	83.8 G
C-G049	Special Approval	\$2,803	106.6	94.2	113.4	103.6 G	58.6 E	96.0 G	0.0 G	90.4 G	82.0 F+	100.1 G
C-G233	Limited Approval	\$2,799	106.7	97.8	109.2	109.9 G	61.2 E	109.2 F	0.0	93.3 G	60.8 G	92.2 G
C-G206NT	Special Approval	\$2,769	105.1	6.96	108.4	106.8 G	53.1 E	88.5 G	0.0 G	87.6 G	87.2 F+	84.0 G
BTS-1183*	Fully Approved	\$2,755	104.8	97.9	106.8	101.2 G	60.7 E	98.9 G	0.0	94.1 G	79.6 G	91.5 G
BTS-128N	Special Approval	\$2,717	103.2	6.96	106.5	107.7 G	55.6 E	105.8 F+	0.0 G	82.3 G	79.4 G	101.4 G
C-G151	Special Approval	\$2,686	102.9	97.4	105.6	110.6 G	62.9 G+	104.1 G	0.0 G	91.6 G	69.4 G	90.8 G
C-G229	Limited Approval	\$2,681	102.5	103.0	99.4	100.6 G	43.8 E	103.8 G	0.0 G	84.6 G	81.3 F+	104.5 G
BTS-123N	Limited Approval	\$2,677	101.8	97.8	103.9	103.9 G	49.7 E	115.0 F-	0.0 G	98.6 G	88.8 F+	100.8 G
BTS-197N	Fully Approved	\$2,672	101.9	96.4	105.8	94.5 F	113.1 F-	109.2 F	2.0 G	104.3 F+	85.9 F+	103.6 G
C-G214NT	Limited Approval	\$2,654	101.2	0.66	102.1	110.6 G	57.9 E	101.8 G	0.0 G	92.3 G	80.3 G	99.9 G
C-G932NT	Fully Approved	\$2,647	101.0	98.5	102.5	101.4 G	111.2 F-	109.4 F	0.0 G	70.9 G	80.0 G	96.4 G
*X-2296N	Fully Approved	\$2,634	100.4	101.5	98.8	102.3 G	117.6 F-	109.6 F	2.0 G	96.9 G	98.1 F+	105.2 G
BTS-1276	Limited Approval	\$2,631	100.4	101.3	99.1	99.6 F+	44.1 E	98.7 G	4.2 G	97.8 G	77.3 G	9e.6 G
HIL-2332NT*	Fully Approved	\$2,581	98.1	101.7	9.96	102.7 G	115.3 F-	90.0	0.0 G	97.8 G	106.0 F+	101.0 G
SX-2295	Fully Approved	\$2,549	6.96	97.7	99.3	99.0 F+	99.1 G	92.5 G	20.0 F	110.7 F+	99.7 F+	115.1 F+
HIL-9865*	Fully Approved	\$2,533	2.96	98.9	97.8	93.8 F	106.4 F	101.4 F-	0.0 G	111.2 F+	116.3 F-	102.3 G
HIL-2361	Fully Approved	\$2,524	0.96	100.8	95.3	92.3 F	98.5 G	94.9 G	0.0 G	110.2 F+	113.9 F-	114.2 F+
MA-940	Limited Approval	\$2,516	95.7	101.4	94.5	93.4 F	103.2 F	86.0 G	0.0 G	126.9 F-	115.8 F-	112.9 F+
HIL-2238NT	Fully Approved	\$2,512	95.2	93.5	101.6	102.8 G	96.5 G	113.0 F-	0.0 G	131.9 F-	110.2 F-	104.1 G
HIL-2403	Fully Approved	\$2,510	95.3	100.2	95.0	102.1 G	97.6 G	89.4 G	2.0 G	109.8 F+	106.6 F+	121.6 F+
MA-933NT	Special Approval	\$2,501	95.3	100.5	94.8	105.9 G	107.8 F	98.5 G	2.0 G	107.6 F+	108.8 F+	103.4 G
HIL-2425NT	Limited Approval	\$2,492	95.1	99.7	95.3	95.6 F	82.3 G	102.7 F-	4.0 G	133.1 F-	112.1 F-	103.6 G

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

^{\$/}A: Gross dollars per acre is calculated using early delivery adjustment where necessary and a per pound payment of \$0.18 for 2022, and \$0.25 for 2023.

Results are combined across 2 years which includes 8 locations in 2022 and 7 locations in 2023.

^{*}Check Variety



Rhizoctonia

Varieties for 2024 - Average of 2022 & 2023

MICHIGAN	JUBAR	3			
Variety			Check		Comments
variety	Rhizoc	RWSA	RWST	Cerc	Comments
MA-940	86.0	95.7	101.4	103.2	New Limited Approval Variety with Very Good Rhizoctonia tolerance. Above average RWST and below average RWSA. Slight weakness to Aphanomyces and Fusarium.
C-G206NT	88.5	105.1	96.9	53.1	New Specially Approved Nematode Tolerant Variety with Very Good Rhizoctonia tolerance. CR+ Trait for Excellent Cercospora Tolerance. Below average RWST and above average RWSA.
HIL-2403	89.4	95.3	100.2	97.6	Fully Approved Variety with Very Good Rhizoctonia tolerance. Above average RWST and below average RWSA. Good overall disease traits.
HIL-2332NT	90.0	98.1	101.7	115.3	Fully Approved Nematode Tolerant Variety with Very Good Rhizoctonia tolerance. Above average RWST and below average RWSA. Slight weakness to Cercospora.
SX-2295	92.5	96.9	97.7	99.1	Fully Approved Variety with Very Good Rhizoctonia tolerance. Below average RWST and RWSA. Slightly weak on Aphanomyces and Root Aphid.
HIL-2361	94.9	96.0	100.8	98.5	Fully Approved Variety with Very Good Rhizoctonia tolerance. Above average RWST and below average RWSA. Slight weakness to Aphanomyces and Fusarium.
C-G049	96.0	106.6	94.2	58.6	Specially Approved Variety with Very Good Rhizoctonia tolerance. CR+ trait for Excellent Cercospora tolerance. Below average RWST and above average RWSA.
MA-933NT	98.5	95.3	100.5	107.8	Specially Approved Nematode Tolerant Variety with Very Good Rhizoctonia tolerance. Above average RWST but below average RWSA.
BTS-1276	98.7	100.4	101.3	44.1	New Limited Approval Variety with Very Good Rhizoctonia tolerance. CR+ trait for excellent Cercospora tolerance. Above average RWSA and RWST. Slight weakness to Root Aphid.
BTS-1183	98.9	104.8	97.9	60.7	New Fully Approved Variety with Very Good Rhizoctonia tolerance. CR+ trait for excellent Cercospora tolerance. Above average RWSA and average RWST.
HIL-9865	101.4	96.7	98.9	106.4	Fully Approved Variety with Very Good Rhizoctonia tolerance. Average RWST and below average RWSA. Slight weakness to Aphanomyces and Fusarium.
C-G214NT	101.8	101.2	99.0	57.9	New Limited Approval Nematode Tolerant Variety with Very Good Rhizoctonia tolerance. CR+ trait for excellent Cercospora tolerance.
HIL-2425NT	102.7	95.1	99.7	82.3	New Limited Approval Nematode Tolerant Variety with Very Good Rhizoctonia tolerance. Very Good RWST and below average RWSA. Slight weakness to Root Aphid, Aphanomyces, and Fusarium.
C-G227	102.7	107.0	99.3	61.0	New Limited Approval Variety with Very Good Rhizoctonia tolerance. CR+ trait for excellent Cercospora tolerance. Above average RWSA and RWST.
C-G229	103.8	102.5	103.0	43.8	New Limited Approval Variety with Very Good Rhizoctonia tolerance. CR+ trait for excellent Cercospora tolerance. Very Good RWST and above average RWSA. Good root disease traits.

Note: Lower values are better for Rhizoctonia and Cercospora. Higher values are better for RWST and RWSA. Rhizoctonia ratings are from Rhizoctonia Nurseries.



Cercospora

Varieties for 2024 - Average of 2022 & 2023

Variety			Check		Comments
	Cerc	RWSA	RWST	Rhizoc	
C-G229	43.8	102.5	103.0	103.8	New Limited Approval Variety with CR+ trait for Excellent Cercospora tolerance. Above average RWST and RWSA with good overall root disease traits.
BTS-1276	44.1	100.4	101.3	98.7	New Limited Approval Variety with CR+ trait for Excellent Cercospora Tolerance. Above average RWST and average RWSA. Good overall root disease traits.
BTS-123N	49.7	101.8	97.8	115.0	New Limited Approval Nematode Tolerant Variety with CR+ trait for Excellent Cercospora tolerance. Above average RWSA but below average RWST. Slight weakness to Rhizoctonia.
C-G206NT	53.1	105.1	96.9	88.5	New Limited Approval Nematode Tolerant Variety with CR+ trait for Excellent Cercospora tolerance. Above average RWSA but well below average RWST.
BTS-128N	55.6	103.2	96.9	105.8	New Limited Approval Nematode Tolerant Variety with CR+ trait for Excellent Cercospora tolerance. Above average RWSA but well below average RWST. Slight weakness to Rhizoctonia.
C-G214NT	57.9	101.2	99.0	101.8	New Limited Approval Nematode Tolerant Variety with CR+ trait for Excellent Cercospora tolerance. Above average RWSA and average RWST. Good overall root disease traits.
C-G049	58.6	106.6	94.2	96.0	Specially Approved Variety with CR+ trait for Excellent Cercospora tolerance. Above average RWSA and well below average RWST. Very good root disease traits.
BTS-1183	60.7	104.8	97.9	98.9	New Fully Approved Variety with CR+ trait for Excellent Cercospora tolerance. Above average RWSA but below average RWST. Very good root disease traits.
C-G227	61.0	107.0	99.3	102.7	New Limited Approval Variety with CR+ trait for Excellent Cercospora tolerance. Above average RWSA and average RWST. Moderate root disease traits.
C-G233	61.2	106.7	97.8	109.2	New Limited Approval Variety with CR+ trait for Excellent Cercospora tolerance. Above average RWSA but below average RWST. Slight weakness to Rhizoctonia.
C-G151	62.9	102.9	97.4	104.1	Specially Approved Variety with CR+ trait for Excellent Cercospora tolerance. Above average RWSA and below average RWST. Good overall root disease traits.
BTS-1122	64.0	107.1	97.8	120.6	New Fully Approved Variety with CR+ trait for Excellent Cercospora tolerance. Above average RWSA but below average RWST. Slight weakness to Rhizoctonia.
HIL-2425NT	82.3	95.1	99.7	102.7	New Limited Approval Nematode Tolerant variety with Very Good Cercospora tolerance. Below average RWSA but above average RWST. Slight weakness to Aphanomyces and Fusarium.

Note: Lower values are better for Rhizoctonia and Cercospora. Higher values are better for RWST and RWSA.



High Quality

Varieties for 2024 - Average of 2022 & 2023

Variety		% of	Check		Comments
variety	RWST	RWSA	Rhizoc	Cerc	Comments
C-G229	103.0	102.5	103.8	43.8	New Limited Approval Variety with Excellent RWST and above average RWSA. CR+ trait for Excellent Cercospora Tolerance. Good overall root disease traits.
HIL-2332NT	101.7	98.1	90.0	115.3	Fully Approved Nematode Tolerant Variety with Very Good RWST and below average RWSA. Slight weakness to Cercospora. Good overall root disease traits.
SX-2296N	101.5	100.4	109.6	117.6	Fully Approved Nematode Tolerant Variety with Very Good RWST and average RWSA. Slight weakness to Cercospora and Rhizoctonia.
MA-940	101.4	95.7	86.0	103.2	New Limited Approval Variety with Very Good RWST and below average RWSA. Very Good Rhizoctonia tolerance, but slight weakness to Aphanomyces and Fusarium.
BTS-1276	101.3	100.4	98.7	44.1	New Limited Approval Variety with Very Good RWST and above average RWSA. CR+ trait for Excellent Cercospora tolerance. Good overall root disease traits.

Note: Lower values are better for Rhizoctonia and Cercospora. Higher values are better for RWST and RWSA.



Sugarbeet Cyst Nematode

Varieties for 2024 - Average of 2022 & 2023

Variation	Į P	All Values a	re % of Che	ck	Community
Variety	RWSA	RWST	Rhizoc	Cerc	- Comments
HIL-2425NT	95.1	99.7	102.7	82.3	New Limited Approval Nematode Tolerant Variety with Very Good Cercospora tolerance. Below average RWSA but above average RWST. Slight weakness to Aphanomyces and Fusarium.
HIL-2238NT	95.2	93.5	113.0	96.5	Fully Approved Nematode Tolerant Variety. Below average RWST and RWSA. Slight weakness to Rhizoctonia, Aphanomyces, and Fusarium.
MA-933NT	95.3	100.5	98.5	107.8	Specially Approved Nematode Tolerant Variety with Very Good Rhizoctonia tolerance. Above average RWST but below average RWSA.
HIL-2332NT	98.1	101.7	90.0	115.3	Fully Approved Nematode Tolerant Variety with Very Good Rhizoctonia tolerance. Above average RWST and below average RWSA. Slight weakness to Cercospora.
SX-2296N	100.4	101.5	109.6	117.6	Fully Approved Nematode Tolerant Variety with Very Good RWST and average RWSA. Slight weakness to Cercospora and Rhizoctonia.
C-G932NT	101.0	98.5	109.4	112.2	Fully Approved Nematode Tolerant Variety. Average RWST and RWSA. Slight weakness to Cercospora and Rhizoctonia.
C-G214NT	101.2	99.0	101.8	57.9	New Limited Approval Nematode Tolerant Variety. CR+ trait for Excellent Cercospora tolerance. Above average RWSA and average RWST. Slight weakness to Rhizoctonia.
BTS-123N	101.8	97.8	115.0	49.7	New Limited Approval Nematode Tolerant Variety. CR+ trait for Excellent Cercospora tolerance. Above average RWSA and below average RWST. Weakness to Rhizoctonia.
BTS-197N	101.9	96.4	109.2	113.1	Fully Approved Nematode Tolerant Variety. Below average RWST and above average RWSA. Slight weakness to Cercospora and Rhizoctonia.
BTS-128N	103.2	96.9	105.8	55.6	New Specially Approved Nematode Tolerant Variety. CR+ trait for Excellent Cercospora tolerance. Below average RWST and above average RWSA. Slight weakness to Rhizoctonia.
C-G206NT	105.1	96.9	88.5	53.1	New Specially Approved Nematode Tolerant Variety. CR+ trait for Excellent Cercospora tolerance. Below average RWST and above average RWSA. Very Good for Rhizoctonia.

Note: Lower values are better for Rhizoctonia and Cercospora. Higher values are better for RWST and RWSA.



Average of 7 Locations - 2023

Trial Quality: see trial pages Plant/Harv: see trial pages Plots: 2 Rows x 38 ft. Row Spacing: 22 in.

Seeding Rate: see trial pages

Locations: Gerstenberger, Grekowicz, Maurer, Mininger, SVREC, Sylvester, Trost cerc Control:
see trial pages
Rhizoc Control:
see trial pages

Seeding Nate. See												
Variety	\$/A	RWSA	RWS	T	Yie		Sug	gar	C	JP	Emerg	jence
variety	Ψ/ <i>F</i> A	KWSA	lb/T	Rank	T/A	Rank	%	Rank	%	Rank	%	Rank
C-G206NT	\$3,226	11087	264	19	41.9	2	17.7	20	95.4	15	57.0	8
C-G049	\$3,199	10976	254	24	43.4	1	17.2	24	94.9	22	54.6	12
C-G227	\$3,190	11006	271	9	40.5	6	18.2	7	95.3	19	59.7	1
C-G233	\$3,173	10902	266	16	41.0	3	18.0	13	94.9	23	59.3	2
BTS-1183	\$3,171	10920	270	13	40.5	7	18.1	12	95.3	18	53.4	13
BTS-128N	\$3,133	10769	265	17	40.6	5	17.8	19	95.6	10	58.3	5
BTS-1122	\$3,132	10783	265	18	40.7	4	17.8	16	95.2	20	55.3	10
BTS-123N	\$3,081	10589	267	15	39.7	8	17.8	18	95.8	8	55.0	11
C-G214NT	\$3,028	10422	269	14	38.6	11	17.9	15	95.8	6	59.2	3
BTS-197N	\$3,009	10368	263	21	39.5	9	17.8	17	94.9	21	46.6	22
C-G932NT	\$3,004	10352	270	12	38.4	12	18.1	11	95.4	17	52.3	16
C-G229	\$2,980	10260	280	1	36.5	16	18.5	2	96.0	4	52.2	17
C-G151	\$2,968	10235	263	20	38.9	10	17.6	21	95.5	14	58.3	4
BTS-1276	\$2,958	10170	278	3	36.6	15	18.5	5	95.7	9	50.8	19
SX-2296N	\$2,928	10041	277	5	36.3	18	18.5	4	95.5	13	55.8	9
HIL-2332NT	\$2,922	10021	280	2	35.8	19	18.6	1	95.9	5	57.6	6
HIL-2403	\$2,908	9992	275	8	36.4	17	18.1	9	96.1	3	51.7	18
SX-2295	\$2,883	9889	262	22	37.7	14	17.6	22	95.5	12	52.7	15
HIL-2238NT	\$2,855	9799	256	23	38.2	13	17.4	23	94.9	24	52.8	14
HIL-2361	\$2,851	9795	276	7	35.6	21	18.2	8	96.2	1	46.5	23
MA-940	\$2,824	9697	276	6	35.1	23	18.2	6	96.2	2	45.1	24
HIL-9865	\$2,811	9667	271	10	35.7	20	18.0	14	95.8	7	47.9	20
MA-933NT	\$2,811	9662	277	4	34.8	24	18.5	3	95.6	11	57.2	7
HIL-2425NT	\$2,794	9620	270	11	35.5	22	18.1	10	95.4	16	47.3	21
Average	\$2,993.2	10292.6	269.4		38.24		18.01		95.53		53.61	
LSD 5%	141.8	486.8	6.0		1.4		0.3		0.4		4.2	
CV %	4.5	4.5	2.1		3.4		1.7		0.4		6.3	

\$/A: Payment calculated using early delivery adjustment where necessary, and a per pound payment of \$0.25.

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

Comments: The trials in 2023 were planted over the course of more than one month from April 14 through May 23. A couple trials had some difficulty with emergence due to crusting and their emergence data was not included in the average above (Sylvester, Maurer). Emergence overall was slightly lower than the last several years. Overall, root yield was above average and sugar content was average. Disease pressure in trials was relatively low, a couple trials had low levels of Cercospora just before harvest (SVREC, Mininger).



Plant to Stand

MICHIGAN SUIGAR Average of 4 Locations - 2023

Sylvester, Trost

Trial Quality: see trial pages

Locations: Maurer, Mininger,

Cerc Control:

Plant/Harv: see trial pages

see trial pages

Plots: 6 Rows x 38 ft.

Rhizoc Control:

Row Spacing: 22 in. Seeding Rate: 4.1 in.

see trial pages

Variation	\$/A	RWSA	RW	/ST	Yiel	ld	Suç	gar	CJ	IP	Beets/	100 ft
Variety	Φ/A	KWSA	lb/T	Rank	T/A	Rank	%	Rank	%	Rank	Act.	Rank
BTS-1183	\$3,130	9934	255	7	39.0	2	17.7	5	93.8	9	128.1	9
BTS-1122	\$3,084	9767	252	8	38.9	3	17.5	9	94.0	8	139.1	4
C-G151	\$3,073	9737	257	6	38.0	4	17.5	8	94.6	3	142.1	1
C-G049	\$3,032	9617	238	13	40.5	1	16.9	12	93.1	13	141.3	2
SX-2296N	\$2,846	9014	269	1	33.6	7	18.2	1	94.9	1	135.7	6
C-G932NT	\$2,734	8703	250	9	34.8	5	17.6	6	93.3	11	132.4	8
MA-933NT	\$2,720	8615	261	3	33.0	10	17.9	3	94.6	4	137.5	5
HIL-2332NT	\$2,694	8531	263	2	32.5	12	18.1	2	94.2	5	139.4	3
SX-2295	\$2,667	8413	250	10	33.7	6	17.3	10	94.1	6	132.6	7
HIL-2403	\$2,632	8343	257	5	32.5	13	17.8	4	94.0	7	126.0	10
HIL-2361	\$2,622	8325	258	4	32.3	14	17.6	7	94.7	2	111.2	14
HIL-2238NT	\$2,516	8015	241	11	33.3	9	16.8	14	93.8	10	125.7	11
BTS-197N	\$2,500	7968	238	14	33.5	8	17.2	11	92.2	14	113.9	13
HIL-9865	\$2,446	7754	238	12	32.6	11	16.8	13	93.3	12	116.0	12
Average	\$2,763.8	8766.8	252		34.9		17.49		93.91		130.1	
LSD 5%	242.0	749.3	11.8		2.0		0.5		1.2		12.4	
CV%	6.1	6.0	3.3		4.0		2.2		0.9		6.7	

\$/A: Payment calculated using early delivery adjustment where necessary, and a per pound payment of \$0.25

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

Comments: Trials in 2023 experienced difficult emergence conditions, much like many growers experienced. One trial (Sylvester) was on the edge of having the need to be replanted. Overall, average root yield and sugar percentage was very close to what grower average ended up being for the 2023 season. Disease control was good to very good in all trials.



OVT Emergence

Average of 2 Years, 2022 & 2023

2022 - Gerstenberger, Grekowicz, Maurer, Mininger, Schlicker, SVREC, Sylvester, Trost Locations:

2023 - Gerstenberger, Grekowicz, Mininger, SVREC, Trost

Plot Size: 2 Rows X 38 ft., 8 reps

2022 - 1.9" & 4.5" seed spacing, 2023 - 1.9" seed spacing Seeding Rate:

occaring reacc.	2022	 	occa spacing, 2020
Variety			% Emergence
BTS-1122			61.6
C-G227			61.4
C-G214NT			60.9
C-G151			60.9
C-G233			60.5
BTS-128N			59.3
C-G206NT			58.8
MA-933NT			58.3
BTS-123N			57.2
C-G049			57.1
HIL-2238NT			56.7
HIL-2332NT			56.6
SX-2296N			56.4
HIL-2403			56.2
C-G932NT			55.9
BTS-1183			55.7
C-G229			55.5
BTS-1276			54.9
SX-2295			54.5
HIL-2425NT			52.7
BTS-197N			52.1
HIL-9865			51.7
MA-940			51.5
HIL-2361			50.9
Average			56.55
LSD 5%			5.5
CV %		 	4.7

Comments: Emergence data is from Official Variety Trials.

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

East District Trials





Maurer, Minden City - 2023

Soil Info: Clay Loam

Trial Quality: Good Planted: May 18 Harvested: October 12

Plots: 2 Rows x 38 ft., 8 reps

Prev Crop: Dry Beans

Added N: 35 lbs. 2X2, 120 lbs. Side Dress

Disease Pressure:

Cerc: Low Rhizoc: Low

Rainfall: 13.19 in.

Row Width: 22 in.

Seeding Rate: 1.9 in. thinned to

170 beets/100'												
Variety	\$/A	RWSA		/ST	Yie			gar	C.			gence
-			lb/T	Rank	T/A	Rank	%	Rank	%	Rank	%	Rank
C-G227	\$3,035	10883	280	6	38.9	2	18.8	4	95.2	15	52.5	1
BTS-1122	\$2,962	10621	282	4	37.6	4	18.7	6	95.9	10	44.0	8
C-G206NT	\$2,927	10495	273	14	38.5	3	18.4	11	95.1	17	43.1	10
C-G049	\$2,876	10312	259	23	39.8	1	17.7	21	94.8	22	41.3	16
C-G233	\$2,839	10179	274	13	37.2	5	18.5	10	95.1	16	51.3	2
BTS-197N	\$2,791	10008	275	12	36.3	7	18.8	2	94.4	23	37.8	19
C-G932NT	\$2,767	9920	279	8	35.5	9	18.9	1	94.8	21	39.2	18
HIL-2403	\$2,745	9843	282	5	34.8	11	18.5	9	96.4	2	37.7	20
BTS-1183	\$2,696	9667	263	21	36.7	6	18.2	17	94.0	24	41.3	15
BTS-128N	\$2,695	9665	272	15	35.6	8	18.2	16	95.4	13	48.0	3
HIL-9865	\$2,667	9563	277	9	34.5	14	18.4	12	95.9	9	33.2	23
HIL-2332NT	\$2,644	9479	286	1	33.1	17	18.8	3	96.2	5	42.3	13
C-G214NT	\$2,623	9405	270	16	34.8	12	17.9	18	96.0	6	46.0	4
MA-933NT	\$2,554	9157	283	3	32.4	19	18.6	8	96.3	4	43.1	9
BTS-123N	\$2,542	9114	267	19	34.1	15	17.9	19	95.5	12	44.5	7
C-G229	\$2,529	9067	284	2	31.9	23	18.8	5	95.9	7	44.9	6
HIL-2238NT	\$2,524	9049	259	24	34.9	10	17.6	24	95.0	18	42.3	12
HIL-2425NT	\$2,523	9046	270	17	33.6	16	18.2	14	94.9	20	30.5	24
C-G151	\$2,520	9036	261	22	34.7	13	17.6	23	95.2	14	45.7	5
HIL-2361	\$2,511	9005	280	7	32.2	21	18.3	13	96.6	1	34.4	21
SX-2296N	\$2,482	8901	276	11	32.2	20	18.7	7	94.9	19	40.6	17
MA-940	\$2,435	8730	277	10	31.6	24	18.2	15	96.3	3	34.3	22
SX-2295	\$2,430	8715	264	20	33.0	18	17.7	22	95.7	11	41.3	14
BTS-1276	\$2,400	8605	269	18	32.0	22	17.9	20	95.9	8	42.8	11
Average	\$2,654.8	9519.4	273		34.8		18.30		95.47		41.76	
LSD 5%	156.7	561.9	9.7		1.7		0.5		0.8		5.8	
CV %	6.0	6.0	3.6		5.0		2.9		0.9		14.1	
Saa Caraaanara		A 1:				- 41			-			

See Cercospora Fungicide Application Page 34 for applications

\$/A: Payment calculated using early delivery adjustment where necessary, and a per pound payment of \$0.25. **Bold:** Results are not statistically different from top-ranking variety in each column.

Comments: This trial struggled early with soil crusting and required crust busting to get emergence. The timing of the crust busting was nearly perfect and stands improved tremendously. Adequate growing conditions thoughout the season produced slightly above average root yield and average sugar content. Foliar and root disease levels in this trial were low.



Grekowicz, Kinde - 2023

Trial Quality: Excellent

Planted: May 18 Harvested: October 18

Plots: 2 Rows x 38 ft., 12 reps

Row Width: 22 in.

Seeding Rate: 1.9 in. thinned to

Soil Info: Sandy Loam
Prev Crop: Corn

Added N: Manure + 35 lbs. 2X2

Cerc: Very Low Rhizoc: Low

Rainfall: 14.82 in.

	203 beets/100'											
Variety	\$/A	RWSA	RV	VST	Yi	eld	Sı	ıgar	C.	JP	Emer	gence
variety	Ψ/A	RWSA	lb/T	Rank	T/A	Rank	%	Rank	%	Rank	%	Rank
C-G227	\$3,140	12560	267	6	47.1	8	18.4	5	94.0	15	77.7	1
BTS-123N	\$3,095	12379	268	5	46.3	11	18.3	8	94.6	7	59.4	18
BTS-1183	\$3,075	12301	252	18	48.7	3	17.5	20	93.9	16	62.2	17
BTS-128N	\$3,074	12295	256	15	48.0	5	17.8	14	93.7	18	71.3	2
C-G206NT	\$3,056	12224	254	17	48.2	4	17.5	19	94.0	13	67.1	5
C-G151	\$3,043	12170	262	14	46.6	10	17.8	15	94.9	1	66.2	8
C-G233	\$2,996	11985	251	20	47.8	6	17.6	18	93.4	20	70.2	3
C-G229	\$2,977	11907	271	3	44.0	15	18.5	3	94.4	11	67.1	6
BTS-1276	\$2,967	11870	268	4	44.3	14	18.3	7	94.6	6	65.2	10
BTS-197N	\$2,966	11863	252	19	47.1	7	17.7	16	93.2	21	55.4	21
C-G214NT	\$2,961	11844	264	10	44.8	13	18.1	10	94.6	5	69.1	4
BTS-1122	\$2,958	11833	243	23	48.7	2	17.2	22	93.0	22	63.9	14
HIL-2425NT	\$2,937	11749	274	2	42.9	19	18.6	2	94.6	3	55.6	20
C-G049	\$2,931	11725	236	24	49.7	1	16.8	23	93.0	23	64.4	12
C-G932NT	\$2,910	11642	254	16	45.8	12	17.7	17	93.8	17	56.4	19
HIL-2332NT	\$2,895	11579	274	1	42.3	23	18.7	1	94.5	9	65.8	9
SX-2296N	\$2,852	11409	266	7	42.9	18	18.4	6	94.0	14	65.2	11
HIL-9865	\$2,848	11394	262	13	43.6	16	18.0	11	94.2	12	55.0	22
HIL-2238NT	\$2,847	11389	243	22	46.8	9	17.4	21	92.7	24	64.0	13
MA-940	\$2,837	11348	266	8	42.7	20	18.2	9	94.5	8	50.8	24
HIL-2361	\$2,812	11249	264	11	42.7	21	17.9	13	94.8	2	51.4	23
HIL-2403	\$2,806	11224	264	12	42.5	22	18.0	12	94.6	4	62.3	16
MA-933NT	\$2,732	10927	265	9	41.2	24	18.5	4	93.5	19	66.6	7
SX-2295	\$2,658	10631	244	21	43.6	17	16.8	24	94.5	10	63.0	15
Average	\$2,932.2	11729.0	259		45.4		17.90		94.04		63.15	
LSD 5%	153.9	615.6	12.2		1.8		0.6		1.0		8.1	
CV %	5.3	5.3	4.8		4.0		3.6		1.1		13.0	
See Cercospora	Fungicide	Δnnlica	tion Pa	nge 34 f	or ann	lication	9					

See Cercospora Fungicide Application Page 34 for applications

\$/A: Payment calculated using early delivery adjustment where necessary, and a per pound payment of \$0.25.

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

Comments: This trial was excellent from start to finish. Emergence was excellent and disease control was very good. This was the first OVT harvested during permanent pile for 2023. Root yields were very high, but sugar content was average.



Soil Info: Clay Loam

Gerstenberger, Sandusky - 2023

Trial Quality: Good
Planted: May 11
Harvested: October 4

Prev Crop: Corn Added N: 92 lbs. N, 35 lbs. 2X2 Disease Pressure: Cerc: Low Rhizoc: Low

Rainfall: 20.06 in.

Plots: 2 Rows x 38 ft., 10 reps

Row Width: 22 in.

Seeding Rate: 1.9 in. thinned to 203 beets/100'

	100											
Variety	\$/A	RWSA		/ST		eld		gar		JP		gence
			lb/T	Rank		Rank	%	Rank	%	Rank	%	Rank
C-G206NT	\$3,055	10270	281	14	36.5	1	18.4	15	96.7	14	55.1	12
BTS-1183	\$2,977	10008	284	13	35.2	3	18.5	10	96.6	18	56.3	8
C-G049	\$2,957	9941	274	22	36.2	2	17.9	22	96.9	9	56.4	7
BTS-197N	\$2,937	9874	287	8	34.4	4	18.8	5	96.4	21	45.4	24
C-G214NT	\$2,912	9792	284	11	34.4	5	18.5	13	97.0	8	60.3	2
C-G233	\$2,868	9642	284	12	34.0	6	18.6	8	96.5	20	58.0	5
SX-2296N	\$2,823	9493	295	1	32.1	11	19.1	1	96.9	10	54.5	14
BTS-1122	\$2,818	9475	279	18	33.9	7	18.4	16	96.2	22	54.2	15
BTS-128N	\$2,804	9428	278	20	33.9	8	18.2	19	96.7	15	57.9	6
C-G932NT	\$2,742	9218	289	5	31.9	12	18.9	3	96.6	17	48.5	21
SX-2295	\$2,670	8978	275	21	32.7	9	17.9	21	97.0	7	54.6	13
C-G227	\$2,615	8792	280	16	31.4	13	18.3	17	96.7	16	55.3	11
BTS-123N	\$2,614	8790	269	24	32.6	10	17.7	24	96.6	19	55.9	9
HIL-2403	\$2,576	8663	291	3	29.8	16	18.8	6	97.2	2	50.5	19
BTS-1276	\$2,558	8601	292	2	29.4	18	19.0	2	96.8	12	51.7	17
C-G229	\$2,555	8592	289	4	29.6	17	18.7	7	97.1	5	53.4	16
HIL-2238NT	\$2,503	8415	270	23	31.1	14	17.8	23	96.1	23	55.6	10
C-G151	\$2,501	8407	278	19	30.2	15	18.1	20	96.9	11	62.1	1
HIL-2332NT	\$2,440	8203	287	9	28.6	21	18.5	11	97.2	4	60.2	3
HIL-2361	\$2,434	8182	288	7	28.4	22	18.6	9	97.2	3	47.4	23
HIL-2425NT	\$2,418	8131	279	17	29.1	19	18.5	12	96.0	24	51.3	18
HIL-9865	\$2,417	8128	280	15	28.9	20	18.2	18	97.0	6	49.1	20
MA-933NT	\$2,410	8103	289	6	28.0	23	18.8	4	96.8	13	59.8	4
MA-940	\$2,175	7312	285	10	25.6	24	18.4	14	97.4	1	47.4	22
Average	\$2,657.4	8934.9	283		31.6		18.43		96.77		54.20	
LSD 5%	285.2	958.9	7.6		3.0		0.5		0.4		8.5	
CV %	10.9	10.9	2.7		9.7		2.5		0.5		16.0	

See Cercospora Fungicide Application Page 34 for applications

\$/A: Payment calculated using early delivery adjustment where necessary, and a per pound payment of \$0.25.

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

Comments: This location was one of the driest locations during the early growing season. Notes from June indicate that very little plant growth was ocurring week to week. Rainfall in mid July prompted rapid growth, but root size in this trial never caught up to other locations. Root yield was still respectable averaging over 30 tons/a, and sugar content was respectable averaging over 18%. Root quality observed during harvest was exceptional with straight and long tap roots. Foliar and root disease levels in this trial were low.



Plant to Stand

Maurer, Minden City - 2023

Trial Quality: Good Planted: May 18 Harvested: October 13

Plots: 6 Rows x 38 ft., 6 reps

Row Width: 22 in. Seeding Rate: 4.1 in. Soil Info: Clay Loam

Prev Crop: Dry Beans Added N: 35 lbs. 2x2, 120 lbs. Side-Dress

Cerc: Low Rhizoc: Low Rainfall: 13.43 in.

Disease Pressure:

Variati	¢/A	RWSA	RW	/ST	Yi	eld	Su	gar	C.	JP	B/10	0 ft.
Variety	\$/A	KWSA	lb/T	Rank	T/A	Rank	%	Rank	%	Rank	Act.	Rank
C-G049	\$2,918	10463	264	13	39.6	1	17.8	12	95.4	12	118.1	7
BTS-1183	\$2,899	10394	280	6	37.2	3	18.5	5	95.8	8	114.5	10
C-G151	\$2,863	10267	280	5	36.6	4	18.4	6	96.4	3	136.6	1
BTS-1122	\$2,862	10262	275	8	37.3	2	18.4	8	95.5	10	117.4	9
C-G932NT	\$2,834	10162	284	3	35.8	5	19.0	1	95.4	11	119.7	6
BTS-197N	\$2,780	9967	280	4	35.6	6	18.8	3	95.2	14	117.8	8
SX-2296N	\$2,650	9502	285	2	33.3	8	18.8	4	96.1	5	126.6	3
HIL-2332NT	\$2,568	9209	287	1	32.1	12	18.9	2	96.1	6	127.4	2
HIL-2361	\$2,540	9107	272	10	33.5	7	17.8	11	96.5	2	95.3	14
MA-933NT	\$2,497	8954	274	9	32.7	10	18.1	10	96.2	4	125.9	4
HIL-2403	\$2,496	8950	276	7	32.4	11	18.4	7	95.7	9	102.7	12
HIL-2238NT	\$2,484	8908	270	11	33.0	9	18.1	9	95.3	13	114.4	11
SX-2295	\$2,328	8346	267	12	31.3	14	17.5	13	96.6	1	120.8	5
HIL-9865	\$2,303	8258	264	14	31.3	13	17.5	14	96.0	7	95.8	13
Average	\$2,644.4	9482.0	276		34.4		18.29		95.87		116.65	
LSD 5%	197.0	706.3	10.5		2.1		0.6		0.6		21.1	
CV %	6.5	6.5	3.3		5.4		2.9		0.6		15.7	

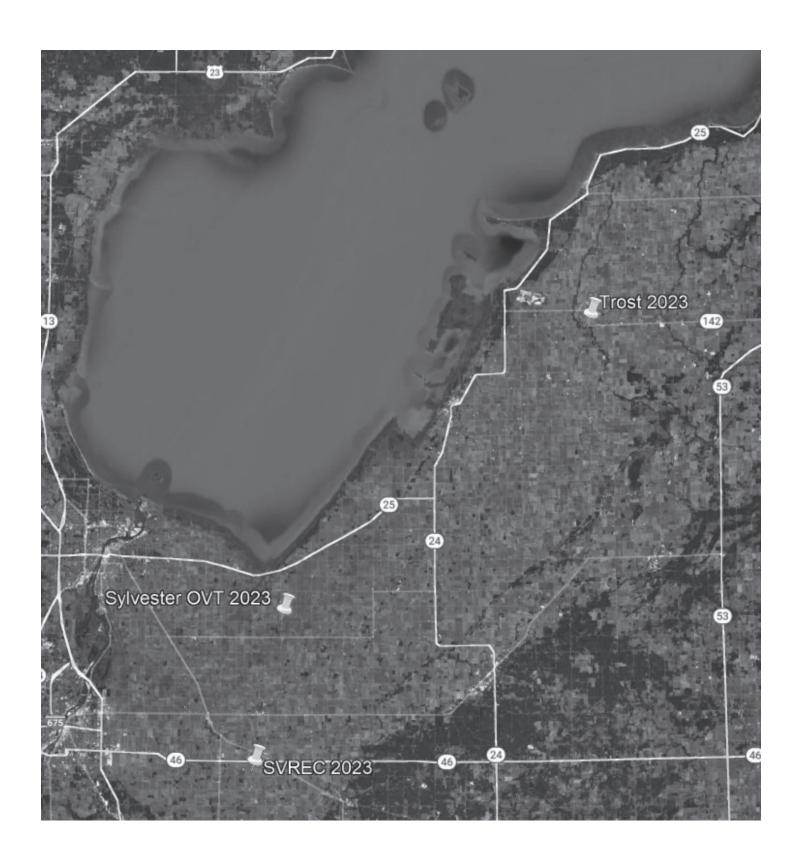
See Cercospora Fungicide Application Page 34 for applications

\$/A: Payment calculated using early delivery adjustment where necessary, and a per pound payment of \$0.25.

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

Comments: This trial experienced soil crusting soon after planting. Crust busting was performed, but results were not ideal. Although thinner stands were present, final yield and sugar content reflect reasonable growing conditions throughout the season. Foliar and root disease levels in this trial were low.

Central District Trials





Trost, Pigeon - 2023

Trial Quality: Good Planted: May 23

Harvested: October 3
Plots: 2 Rows x 38 ft., 10 reps

Row Width: 22 in.

Seeding Rate: 1.9 in. thinned to 170 beets/100'

Soil Info: Sandy Clay Loam

Prev Crop: Corn

Added N: 150 lbs. Urea **+** 35 lbs. 2X2

Disease Pressure:

Cerc: Low Rhizoc: Low Rainfall: 14.75 in.

Variety	\$/A	RWSA	RV	VST	Yi	eld	Su	gar	C.	JP	Emer	gence
variety	ə/A		lb/T	Rank	T/A	Rank	%	Rank	%	Rank	%	Rank
BTS-1183	\$3,036	10121	256	7	39.5	3	17.8	6	93.9	10	32.3	23
BTS-123N	\$2,971	9903	251	12	39.4	4	17.3	16	94.3	6	44.1	7
BTS-128N	\$2,967	9889	250	13	39.6	2	17.3	17	94.2	8	45.0	4
C-G049	\$2,954	9847	232	24	42.4	1	16.6	24	92.8	22	35.3	19
C-G233	\$2,813	9376	244	17	38.5	6	17.5	10	92.5	24	43.1	9
C-G227	\$2,808	9359	245	16	38.1	8	17.4	14	93.0	20	46.9	1
BTS-1122	\$2,800	9333	243	21	38.5	5	17.2	18	92.9	21	40.5	10
C-G206NT	\$2,796	9322	243	19	38.3	7	17.1	21	93.5	14	44.3	5
C-G214NT	\$2,790	9300	256	8	36.3	13	17.6	8	94.4	5	43.3	8
C-G229	\$2,763	9210	265	1	34.8	17	18.2	2	94.4	4	34.4	20
MA-940	\$2,756	9186	264	2	34.9	16	17.8	5	95.1	1	35.9	18
SX-2295	\$2,727	9090	249	14	36.5	11	17.4	12	93.6	12	39.8	12
HIL-2361	\$2,708	9028	257	6	35.1	14	17.5	9	94.9	2	38.7	15
HIL-2332NT	\$2,683	8944	258	5	34.7	18	18.0	4	93.7	11	45.4	3
BTS-1276	\$2,680	8933	264	3	33.9	21	18.3	1	93.9	9	33.0	22
C-G151	\$2,671	8904	244	18	36.5	10	17.2	20	93.3	16	39.4	13
C-G932NT	\$2,655	8849	243	20	36.4	12	17.2	19	93.1	17	38.1	16
BTS-197N	\$2,654	8847	240	22	36.9	9	17.0	22	93.1	18	24.8	24
HIL-2403	\$2,562	8540	253	9	33.7	22	17.4	15	94.6	3	38.8	14
HIL-9865	\$2,558	8526	252	11	33.9	20	17.4	13	94.2	7	36.2	17
SX-2296N	\$2,514	8380	246	15	34.0	19	17.4	11	93.1	19	45.7	2
HIL-2238NT	\$2,478	8262	236	23	35.0	15	16.9	23	92.6	23	40.1	11
MA-933NT	\$2,477	8257	259	4	31.9	24	18.1	3	93.6	13	44.2	6
HIL-2425NT	\$2,456	8186	253	10	32.3	23	17.7	7	93.5	15	33.1	21
Average	\$2,719.8	9066.4	250		36.3		17.45		93.67		39.27	
LSD 5%	198.2	660.7	7.9		2.4		0.4		0.7		8.2	
CV %	7.4	7.4	3.2		6.8		2.1		0.8		21.2	

See Cercospora Fungicide Application Page 34 for applications

\$/A: Payment calculated using early delivery adjustment where necessary, and a per pound payment of \$0.25.

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

Comments: This was the last OVT planted in 2023. Soil moisture after planting was less than desireable and created slower and less favorable germination and emergence conditions. This trial was thinned to a slightly lower stand than desired to compensate. The rest of the growing season was favorable and resulted in very good root yield and average sugar content. Foliar and root disease levels were low in this trial.



Official Variety Trial SVREC, Richville - 2023

Trial Quality: Very Good

Planted: April 14

Harvested: November 1 Plots: 2 Rows x 38 ft., 8 reps

Row Width: 22 in.

Seeding Rate: 1.9 in. thinned to

203 beets/100'

Soil Info: Sandy Clay Loam

Prev Crop: Corn

Added N: PPI Urea/ESN blend, 125 lbs. N, 35 lbs. 2X2

Disease Pressure: Cerc: Low to Moderate

Rhizoc: Low Rainfall: 20.62 in.

	203 beets/		RW	/ST	Yi	eld	Su	gar	C	JP	Emer	gence
Variety	\$/A	RWSA	lb/T	Rank	T/A	Rank	%	Rank	%	Rank	%	Rank
C-G227	\$3,773	15090	322	3	46.9	3	20.2	5	98.4	5	48.4	3
BTS-1183	\$3,651	14602	315	12	46.3	4	19.9	12	98.3	8	43.9	13
C-G206NT	\$3,609	14437	305	22	47.3	2	19.3	22	98.1	18	46.5	7
BTS-1122	\$3,579	14317	315	13	45.4	5	19.8	14	98.5	3	45.7	9
C-G233	\$3,573	14293	318	9	44.9	7	20.1	9	98.0	20	52.6	1
C-G049	\$3,538	14150	299	23	47.4	1	19.1	23	97.8	23	45.8	8
BTS-128N	\$3,488	13952	307	20	45.4	6	19.4	21	98.3	7	46.6	6
C-G932NT	\$3,482	13929	320	7	43.5	9	20.2	6	98.2	12	47.4	4
C-G151	\$3,480	13918	321	5	43.3	11	20.1	8	98.5	1	51.1	2
C-G229	\$3,448	13793	321	4	42.9	13	20.2	7	98.5	4	36.1	20
BTS-123N	\$3,446	13783	310	17	44.5	8	19.6	17	98.2	13	41.4	15
BTS-1276	\$3,399	13598	318	11	42.8	14	20.3	3	97.5	24	37.0	19
C-G214NT	\$3,381	13524	312	15	43.3	10	19.7	15	98.1	17	47.4	5
BTS-197N	\$3,310	13242	307	21	43.1	12	19.4	20	98.2	14	44.8	10
SX-2295	\$3,208	12830	309	19	41.5	16	19.5	18	98.2	15	38.8	16
HIL-2403	\$3,206	12823	312	16	41.1	17	19.7	16	98.2	11	37.9	17
MA-933NT	\$3,173	12691	325	1	39.1	19	20.5	1	98.1	16	44.6	11
HIL-2238NT	\$3,155	12621	297	24	42.4	15	18.8	24	98.3	9	37.2	18
SX-2296N	\$3,146	12583	320	6	39.3	18	20.3	4	98.0	19	43.0	14
MA-940	\$3,099	12396	320	8	38.8	22	20.1	10	98.5	2	33.7	22
HIL-2332NT	\$3,094	12378	322	2	38.5	23	20.4	2	97.9	21	44.1	12
HIL-2361	\$3,045	12179	318	10	38.4	24	20.0	11	98.3	6	33.6	23
HIL-2425NT	\$3,029	12116	312	14	38.8	20	19.8	13	97.9	22	33.5	24
HIL-9865	\$2,997	11989	309	18	38.8	21	19.5	19	98.3	10	34.2	21
Average	\$3,346.2	13384.7	314		42.7		19.83		98.18		42.31	
LSD 5%	164.5	658.0	7.2		1.8		0.4		0.5		7.1	
CV %	5.0	5.0	2.3		4.2		2.0		0.5		16.9	
See Cercosnora	Funcial	Annlina	tion Do	~~ 24 f		lication						

See Cercospora Fungicide Application Page 34 for applications

\$/A: Payment calculated using early delivery adjustment where necessary, and a per pound payment of \$0.25 **Bold:** Results are not statistically different from top-ranking variety in each column.

Comments: This was the first OVT planted and last harvested in 2023. Favorable growing conditions

throughout the season as well as the later harvest promoted excellent root yield and sugar content. Warmer than average September and October temperatures allowed low to moderate levels of foliar disease to present themselves after fungicide applications had ceased for the season. Root disease levels in this trial were low.



Soil Info: Sandy Clay Loam

Sylvester, Akron - 2023

Trial Quality: Good Planted: April 26 Harvested: September 21 Plots: 2 Rows x 38 ft., 10 reps

Prev Crop: Wheat/Raddish/Rye **Added N:** 35 lbs. 2X2, 120 lbs. Side-Dress

Disease Pressure: Cerc: Low Rhizoc: Low

Rainfall: 18.27 in.

Row Width: 22 in.

Seeding Rate: 1.9 in. thinned to 135 beets/100'

Variety	\$/A	RWSA	RW	/ST		eld		gar		JP		gence
			lb/T	Rank		Rank	%	Rank	%	Rank	%	Rank
C-G233	\$3,694	10974	255	20	43.0	1	17.1	18	95.6	21	36.4	7
C-G049	\$3,526	10475	248	24	42.3	2	16.8	24	95.3	23	33.6	13
C-G206NT	\$3,523	10467	254	21	41.2	3	16.9	23	96.1	15	35.7	9
C-G227	\$3,471	10314	258	16	40.0	4	17.2	15	95.8	20	39.2	3
C-G151	\$3,448	10245	259	15	39.5	5	17.2	16	96.2	10	34.1	12
BTS-1122	\$3,407	10122	257	18	39.4	6	17.1	19	96.1	12	32.4	15
SX-2295	\$3,334	9906	263	12	37.8	8	17.4	11	96.1	16	31.7	16
BTS-123N	\$3,308	9828	263	11	37.4	11	17.3	12	96.6	2	30.5	18
C-G214NT	\$3,306	9823	261	13	37.6	9	17.3	13	96.2	9	40.1	1
BTS-1276	\$3,305	9819	277	3	35.4	13	18.2	2	96.6	3	34.8	11
BTS-197N	\$3,275	9730	251	23	38.9	7	17.0	20	95.2	24	30.6	17
C-G229	\$3,263	9695	278	1	34.9	16	18.1	4	96.9	1	37.1	5
SX-2296N	\$3,228	9590	278	2	34.5	19	18.3	1	96.3	8	39.9	2
BTS-128N	\$3,223	9575	256	19	37.3	12	17.0	21	96.3	7	37.0	6
HIL-2238NT	\$3,193	9486	252	22	37.6	10	16.9	22	95.5	22	30.2	19
HIL-2361	\$3,174	9429	269	7	35.0	14	17.7	8	96.3	6	24.2	23
HIL-2332NT	\$3,173	9427	276	4	34.2	20	18.1	3	96.5	4	35.9	8
BTS-1183	\$3,161	9392	268	9	35.0	15	17.7	9	96.1	14	35.2	10
MA-940	\$3,114	9253	271	5	34.2	21	17.9	5	96.1	17	25.1	22
C-G932NT	\$3,114	9252	267	10	34.6	18	17.6	10	96.4	5	37.4	4
HIL-2425NT	\$3,028	8998	260	14	34.6	17	17.2	14	96.1	13	24.0	24
MA-933NT	\$2,943	8744	270	6	32.4	23	17.9	6	95.9	19	32.7	14
HIL-9865	\$2,883	8565	258	17	33.1	22	17.2	17	96.0	18	26.0	21
HIL-2403	\$2,873	8536	269	8	31.7	24	17.8	7	96.1	11	27.2	20
Average	\$3,248.5	9651.9	263		36.7		17.45		96.10		32.96	
LSD 5%	231.4	687.6	7.4		2.4		0.4		0.5		8.7	
CV %	7.2	7.2	2.8		6.7		2.3		0.6		26.8	

See Cercospora Fungicide Application Page 34 for applications

\$/A: Payment calculated using early delivery adjustment where necessary, and a per pound payment of \$0.25.

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

Comments: This trial encountered some soil crusting after planting and was crust busted. Results of the crust busting were not ideal and this trial was thinned to a lower stand than others for consistency between varieties/replications. Root yield was high and sugar content was respectable for a mid-September harvest. Foliar and root disease levels in this trial were low.



Trial Quality: Good

Planted: May 23
Harvested: October 3

Plots: 6 Rows x 38 ft., 6 reps

Row Width: 22 in. Seeding Rate: 4.1 in. Soil Info: Sandy Clay Loam

Prev Crop: Corn

Added N: 75 lbs. N, 35 lbs. 2X2

Disease Pressure:

Cerc: Low Rhizoc: Low Rainfall: 14.75 in.

Varioty	/ariety \$/A	RWSA	RV	VST	Yi	eld	Su	gar	C.	JP	B/10	0 ft.
variety	ΨIA	RVVSA	lb/T	Rank	T/A	Rank	%	Rank	%	Rank	Act.	Rank
BTS-1183	\$3,024	10081	250	3	40.3	2	18.1	5	92.0	4	131.2	11
C-G151	\$2,762	9206	247	5	37.3	4	17.5	8	92.9	2	150.7	4
BTS-1122	\$2,731	9103	234	8	39.0	3	17.5	9	90.9	8	157.2	2
C-G049	\$2,680	8932	213	13	41.9	1	16.9	13	88.7	13	141.7	8
SX-2296N	\$2,554	8515	261	1	32.7	12	18.3	1	93.2	1	154.0	3
MA-933NT	\$2,491	8303	249	4	33.3	10	18.2	2	91.7	5	150.3	5
HIL-2238NT	\$2,446	8154	229	10	35.7	5	17.0	12	91.1	6	132.2	10
HIL-2361	\$2,433	8109	251	2	32.3	13	18.1	4	92.1	3	119.7	13
HIL-2403	\$2,425	8084	240	7	33.7	7	17.9	6	90.9	7	145.3	6
C-G932NT	\$2,393	7977	232	9	34.5	6	17.8	7	89.6	11	144.1	7
HIL-2332NT	\$2,317	7723	243	6	31.8	14	18.1	3	90.7	9	160.6	1
SX-2295	\$2,293	7643	228	11	33.6	8	17.3	11	90.2	10	136.6	9
HIL-9865	\$2,241	7471	223	12	33.5	9	17.4	10	89.1	12	127.9	12
BTS-197N	\$1,969	6563	201	14	32.9	11	16.9	14	86.7	14	110.3	14
Average	\$2,482.7	8276.1	236		35.2		17.64		90.70		140.13	
LSD 5%	256.8	855.9	22.9		2.4		0.7		3.0		33.5	
CV %	9.0	9.0	8.4		6.0		3.2		2.8		20.8	

See Cercospora Fungicide Application Page 34 for applications

\$/A: Payment calculated using early delivery adjustment where necessary, and a per pound payment of \$0.25.

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

Comments: This was the last Plant to Stand trial planted in 2023 due to the wet spring. Later planting and reduced soil moisture contributed to a slightly less than desireable stand. Later planting and thinner stands still resulted in very good root yield and respectable sugar content. Clear Juice purity levels were abnormally low, likely due to the history of manure applications at this trial location.



Plant to Stand

Sylvester, Akron - 2023

Trial Quality: Fair
Planted: April 26
Harvested: September 22

Ac

Soil Info: Sandy Clay Loam
Prev Crop: Wheat/Raddish/Rye
Added N: 35 lbs. 2X2, 120 lbs. Side-Dress

Disease Pressure: Cerc: Low

Rhizoc: Low
Rainfall: 18.32 in.

Plots: 6 Rows x 38 ft., 6 reps

Row Width: 22 in. Seeding Rate: 4.1 in.

	A		RV	VST	Yi	eld	Su	gar	C	JP	B/100 ft.
Variety	\$/A	RWSA	lb/T	Rank	T/A	Rank	%	Rank	%	Rank	Act.
BTS-1122	\$3,217	9559	259	5	36.9	3	17.4	6	95.6	1	81.5
C-G151	\$3,197	9498	255	6	37.2	2	17.3	8	95.1	4	93.8
C-G049	\$3,088	9175	244	11	37.6	1	16.7	12	94.7	8	107.3
BTS-1183	\$3,026	8991	244	12	36.9	4	17.3	7	92.9	14	90.7
SX-2295	\$2,830	8410	261	4	32.2	6	17.9	2	94.3	10	81.0
SX-2296N	\$2,812	8355	271	1	30.8	7	18.4	1	94.8	7	84.5
C-G932NT	\$2,688	7987	245	9	32.5	5	17.0	10	94.0	11	77.8
MA-933NT	\$2,681	7965	265	2	30.1	9	17.9	3	95.2	2	88.4
HIL-2332NT	\$2,633	7823	263	3	29.6	12	17.8	4	95.1	3	83.8
BTS-197N	\$2,525	7502	245	10	30.6	8	17.0	11	93.9	12	65.5
HIL-2238NT	\$2,447	7269	241	13	30.1	10	16.4	13	95.0	6	64.7
HIL-2361	\$2,353	6990	252	8	27.8	13	17.1	9	95.1	5	59.3
HIL-9865	\$2,287	6795	229	14	29.7	11	16.0	14	93.8	13	66.2
HIL-2403	\$2,223	6605	255	7	25.9	14	17.5	5	94.4	9	67.2
Average	\$2,714.7	8065.9	252		32.0		17.26		94.56		79.40
LSD 5%	384.0	1141.0	15.7		3.6		0.7		1.5		N.S.
CV %	9.9	9.9	4.4		7.8		2.9		1.1		38.0

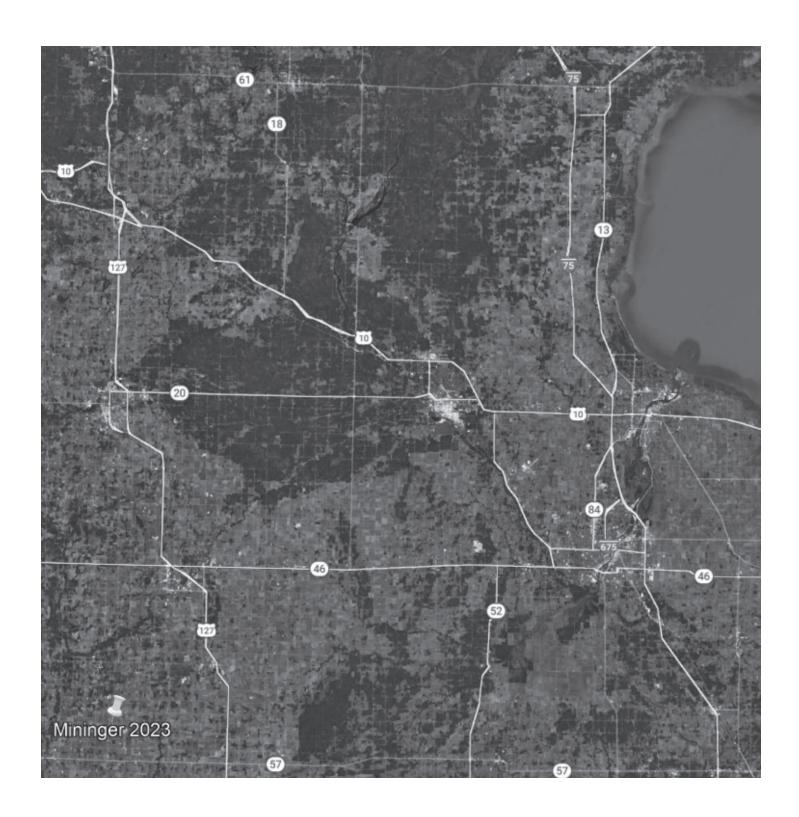
See Cercospora Fungicide Application Page 34 for applications

\$/A: Payment calculated using early delivery adjustment where necessary, and a per pound payment of \$0.25.

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

Comments: This trial experienced soil crusting after planting, and crust busting was minimally effective. Much lower than desired stands still resulted in respectable root yield and sugar content for a September 22 harvest date. Previous planting date studies suggest that 80 beets/100' is the point at which an earlier planted trial can out perform a later planted trial with better stands. Foliar and root disease levels in this trial were low.

West District Trials





Mininger, Middleton - 2023

Trial Quality: Very Good Planted: April 25

Harvested: September 18 Plots: 2 Rows x 38 ft., 8 reps

Row Width: 22 in.

Seeding Rate: 1.9 in. thinned to

Soil Info: Sandy Clay Loam

Prev Crop: Corn

Added N: Manure + 35 lbs. 2X2

Disease Pressure:

Cerc: Low to Moderate

Rhizoc: Low Rainfall: 13.64 in.

203 beets/100'												
Variety	\$/A	RWSA		/ST		eld		gar		JP	Emer	gence
variety	Ψ/Α	KWSA	lb/T	Rank	T/A	Rank	%	Rank	%	Rank	%	Rank
BTS-128N	\$3,677	10577	239	14	44.4	2	16.4	17	94.5	13	70.8	13
C-G206NT	\$3,614	10395	239	13	43.3	3	16.5	15	94.5	12	72.2	6
C-G049	\$3,610	10385	226	23	45.9	1	15.9	22	93.7	22	71.2	10
BTS-1183	\$3,599	10352	248	10	41.7	6	17.1	8	94.4	15	72.1	8
BTS-123N	\$3,589	10323	238	15	43.3	4	16.4	18	94.5	11	74.3	2
HIL-2403	\$3,585	10313	253	6	40.8	11	17.0	10	95.6	1	68.9	16
HIL-2332NT	\$3,524	10136	259	1	39.1	14	17.6	2	95.0	5	72.3	5
C-G227	\$3,492	10045	243	12	41.3	7	16.8	11	94.1	18	70.5	14
SX-2296N	\$3,453	9933	256	4	38.9	17	17.3	4	95.1	4	70.8	11
C-G233	\$3,431	9868	237	18	41.7	5	16.7	12	93.3	23	72.8	3
BTS-1122	\$3,400	9781	237	19	41.3	8	16.5	16	94.0	20	72.2	7
BTS-1276	\$3,394	9762	257	2	38.1	20	17.6	1	94.5	14	67.0	19
MA-933NT	\$3,392	9756	251	9	38.9	16	17.1	6	94.7	9	70.8	12
C-G932NT	\$3,356	9655	237	20	40.8	10	16.3	20	94.4	16	71.2	9
MA-940	\$3,356	9654	252	8	38.3	19	17.1	7	95.2	3	57.5	24
C-G229	\$3,323	9558	254	5	37.7	21	17.2	5	94.9	6	70.0	15
HIL-9865	\$3,304	9504	256	3	37.2	24	17.4	3	94.9	7	65.0	20
HIL-2361	\$3,301	9494	253	7	37.6	22	17.0	9	95.4	2	61.3	23
HIL-2238NT	\$3,257	9368	238	16	39.4	13	16.5	14	94.1	17	67.2	17
C-G214NT	\$3,222	9268	237	17	39.0	15	16.3	21	94.6	10	76.1	1
HIL-2425NT	\$3,169	9117	245	11	37.3	23	16.7	13	94.8	8	62.7	21
SX-2295	\$3,154	9073	234	21	38.8	18	16.4	19	93.7	21	67.2	18
BTS-197N	\$3,132	9010	226	22	39.9	12	15.8	23	94.0	19	62.4	22
C-G151	\$3,117	8966	218	24	41.2	9	15.5	24	93.2	24	72.7	4
Average	\$3,393.8	9762.2	243		40.2		16.71		94.47		69.14	
LSD 5%	234.6	674.8	9.3		2.5		0.5		0.7		7.4	
CV %	7.0	7.0	3.9		6.3		2.9		8.0		10.9	
Saa Caraachara	Entered at the	. A I'		- 046	-	4.						

See Cercospora Fungicide Application Page 34 for applications

\$/A: Payment calculated using early delivery adjustment where necessary, and a per pound payment of \$0.25.

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

Comments: This was the second trial planted and first trial harvested in 2023. Yields were excellent for a September harvest. Rainfall several weeks prior to harvest prevented timely fungicide applications and a low to moderate leafspot infection occurred. Sugar content was lower than average but can be explained by the early harvest and ample rainfall the several weeks prior to harvest. Root disease levels were low.



Plant to Stand

Mininger, Middleton - 2023

Trial Quality: Very Good

Planted: April 25

Harvested: September 18
Plots: 6 Rows x 38 ft., 6 reps

Row Width: 22 in. Seeding Rate: 4.1 in.

Soil Info: Sandy Clay Loam

Prev Crop: Corn

Added N: Manure + 35 lbs. 2X2

Disease Pressure:

Cerc: Low to Moderate

Rhizoc: Low Rainfall: 13.87 in.

Variety	\$/A	RWSA	R۷	VST	Yi	eld	Su	gar	C.	JP	B/100 ft.
variety	Ψ/A	KWSA	lb/T	Rank	T/A	Rank	%	Rank	%	Rank	Act.
BTS-1183	\$3,570	10270	246	6	41.7	3	16.9	7	94.6	7	176.0
BTS-1122	\$3,526	10143	239	10	42.4	2	16.7	8	93.9	12	200.2
C-G151	\$3,469	9978	245	7	40.7	4	17.0	6	94.1	10	187.4
C-G049	\$3,441	9897	230	12	43.0	1	16.2	12	93.6	13	197.9
HIL-2403	\$3,383	9732	258	3	37.8	6	17.5	1	95.0	6	188.6
SX-2296N	\$3,366	9683	258	1	37.5	7	17.4	3	95.3	2	177.6
HIL-2332NT	\$3,256	9366	258	2	36.3	8	17.4	2	95.1	5	185.7
SX-2295	\$3,216	9251	244	8	37.9	5	16.5	10	95.3	3	192.1
MA-933NT	\$3,212	9239	257	4	35.9	10	17.4	4	95.3	1	185.3
HIL-2361	\$3,161	9094	256	5	35.5	12	17.3	5	95.2	4	170.5
C-G932NT	\$3,021	8689	239	9	36.3	9	16.6	9	94.2	9	188.1
HIL-9865	\$2,952	8491	238	11	35.7	11	16.5	11	94.2	8	174.3
BTS-197N	\$2,726	7842	225	13	34.8	13	16.0	13	93.1	14	162.1
HIL-2238NT	\$2,686	7727	224	14	34.5	14	15.6	14	93.9	11	191.6
Average	\$3,213.3	9243.0	244		37.9		16.78		94.49		184.10
LSD 5%	273.1	785.6	11.4		2.5		0.6		0.7		N.S
CV %	6.7	6.7	3.7		5.2		2.8		0.6		18.4

See Cercospora Fungicide Application Page 34 for applications

\$/A: Payment calculated using early delivery adjustment where necessary, and a per pound payment of \$0.25.

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

Comments: This trial had the strongest emergence of the 4 Plant to Stand trials planted in 2023. Early planting as well as favorable conditions in the weeks after planting were the main factors. Timely rainfall and better than average stands resulted in very good root yield for a September 18 harvest date. Rains received in late August delayed fungicide applications by several days which allowed a low to moderate level of Cercospora Leafspot to infect this trial. Sugar content was low likely due to environmental conditions in the weeks leading up to harvest.



Nursery Data







Rhizoctonia Nursery

Average of 2 years, 2022 & 2023

Trial Quality: Good Location: USDA

Plot Size: 2 Rows x 25 ft., 6 reps

Inoculation: Inoculated with Rhizoctonia Solani AG 2-2 IIIB

Variation	Root Rating*	Estimated Root
Variety	0-7	Rot %
MA-940	3.86	23.5
C-G206NT	3.97	25.0
HIL-2403	4.01	26.5
HIL-2332NT	4.04	25.5
SX-2295	4.15	29.8
Resistant Check	4.24	31.3
HIL-2361	4.26	30.0
C-G049	4.31	32.5
MA-933NT	4.42	35.0
BTS-1276	4.43	36.3
BTS-1183	4.44	36.3
HIL-9865	4.55	39.3
C-G214NT	4.57	38.8
C-G227	4.61	40.0
HIL-2425NT	4.61	40.0
C-G229	4.66	41.3
C-G151	4.67	41.3
BTS-128N	4.75	43.8
C-G233	4.90	47.5
BTS-197N	4.90	47.5
C-G932NT	4.91	47.5
SX-2296N	4.92	48.8
HIL-2238NT	5.07	52.5
BTS-123N	5.16	53.8
BTS-1122	5.41	60.0
Susceptible Check	5.47	62.5
Average	4.59	39.84
LSD 5%	0.7	17.0
CV %	7.3	20.7

Bold: Results are not significantly different from the top ranking variety in each column

*Rating System:

0 = No Infection 1 = less than 2% rotted roots 2 = less than 5% rotted roots 3 = 5 to 25% rotted roots 4 = 26 to 50% rotted roots 5 = 51 to 75% rotted roots

6 = 76 to 95% rotted roots 7 = 100% rotted roots

During evaluations, roots were dug and assigned values from 0 to 7. Each plot contained approximately 50 roots and each root was rated for all six replications.



Cercospora Nursery

Average of 2 years, 2022 & 2023

Trial Quality: Good

Locations:

2022 - Blumfield East, SVREC 2023 - Blumfield East, SVREC Inoculation: Trials were Inoculated

Plot Size:

Blumfield East - 2 Rows x 25 ft., 6 Reps SVREC - 2 Rows x 20 ft., 6 reps

Variety	Avg of 2 Years CLS Rate 0-9	2022 CLS Rate 0-9	2023 CLS Rate 0-9
C-G229	2.0	1.5	2.5
BTS-1276	2.0	1.6	2.4
BTS-123N	2.3	1.7	2.8
C-G206NT	2.4	2.0	2.9
BTS-128N	2.5	1.9	3.2
C-G214NT	2.6	2.0	3.2
C-G049	2.7	2.2	3.2
BTS-1183	2.8	2.2	3.3
C-G227	2.8	2.4	3.2
C-G233	2.8	2.2	3.3
C-G151	2.8	2.4	3.3
BTS-1122	2.9	2.5	3.3
HIL-2425NT	3.7	3.4	4.0
Resistant Check	4.2	3.7	4.8
HIL-2238NT	4.3	4.1	4.5
HIL-2403	4.4	4.1	4.7
HIL-2361	4.4	4.2	4.6
SX-2295	4.4	4.2	4.7
MA-940	4.6	4.3	5.0
HIL-9865	4.8	4.3	5.2
MA-933NT	4.9	4.2	5.6
C-G932NT	5.0	4.9	5.1
BTS-197N	5.1	4.9	5.3
HIL-2332NT	5.2	4.8	5.6
SX-2296N	5.3	5.0	5.5
Susceptible Check	6.3	6.0	6.5
Average	3.75	3.34	4.14

Cercospora Rating (0-9 Scale):

0 = no spots, 1 = very few spots, 2 = up to 10 spots/leaf,

2.5 = up to 50 spots/leaf, 3 = 100 to 200 spots/leaf (approx 3% leaf injury), 4 = up to 10 % injury, 5 = up to 25 % injury, 6 = up to 50% injury, 7 = up to 75% injury, 8 = up to 90% injury, 9 = leaves completely dead.

Comments: Trials are inoculated and never sprayed with fungicide. Ratings are an average of several physical ratings. Ratings end when susceptible varieties burn down. All varieties will suffer economic injury if fungicide is not applied at recommended intervals.



Cyst Nematode Nursery

Average of 2 Years, 2022 & 2023

Trial Quality: Good

Locations: 2022 - Sylvester Nematode

2023 - Sylvester Nematode

Plot Size: 2022 - 2 Rows x 38 ft., 6 reps **Plot Size:** 2023 - 2 Rows x 38 ft., 6 reps

Rhizoc Control: Very Good

Cerc Control: Good

Variety	\$/A	RWSA	RW	ST	Yie	ld	Suç	jar	CJ	P
variety	Ψ/ <i>F</i> A	RWSA	lb/T	Rank	T/A	Rank	%	Rank	%	Rank
C-G214NT	\$2,849	11512	287.2	5	40.1	2	18.9	8	96.3	1
BTS-128N	\$2,803	11268	281.4	8	40.1	3	18.8	11	95.6	4
BTS-123N	\$2,802	11353	286.5	6	39.6	4	19.1	5	95.5	6
C-G206NT	\$2,762	11119	275.0	11	40.4	1	18.5	12	95.2	8
BTS-197N	\$2,610	10677	282.0	7	37.8	5	19.0	6	95.1	9
SX-2296N	\$2,571	10661	302.6	1	35.1	9	20.0	1	95.8	2
C-G932NT	\$2,538	10450	279.3	10	37.3	6	18.8	9	95.1	10
MA-933NT	\$2,507	10217	292.3	4	34.9	10	19.5	4	95.5	5
HIL-2332NT	\$2,504	10323	299.2	2	34.3	11	19.8	2	95.7	3
HIL-2238NT	\$2,497	10135	279.6	9	36.2	8	18.9	7	94.8	11
HIL-2425NT	\$2,434	10057	295.2	3	34.0	12	19.7	3	95.4	7
Susceptible Check	\$2,425	10097	272.5	12	36.8	7	18.8	10	94.0	12
Average	\$2,608.5	10655.7	286.1		37.22		19.14		95.33	
LSD 5%	N.S.	1252.9	7.5		4.6		0.3		0.4	
CV %	7.0	5.3	1.2		5.6		0.8		0.2	

\$/A: Payment calculated using early delivery adjustment where necessary, and a per pound payment of \$0.18 for 2022, and \$0.25 for 2023.

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



Root Aphid Nursery

Magno Seed, LLC & KWS

MICHIGAN SUGAR Average of 2 years 2022 & 2023

Variety	% Infected
MA-940	0.0
HIL-2361	0.0
HIL-2332NT	0.0
HIL-2238NT	0.0
C-G932NT	0.0
C-G233	0.0
C-G214NT	0.0
C-G206NT	0.0
C-G151	0.0
BTS-123N	0.0
BTS-1122	0.0
C-G229	0.0
BTS-128N	0.0
HIL-9865	0.0
C-G049	0.0
BTS-1183	0.0
MA-933NT	2.0
HIL-2403	2.0
BTS-197N	2.0
SX-2296N	2.0
C-G227	2.1
HIL-2425NT	4.0
BTS-1276	4.2
Resistant Check	7.0
SX-2295	20.0
Susceptible Check	58.0
Average	4.0
LSD 5%	6.2
CV %	75.8

Magno conducts a replicated field trial (plots 4 Rows x 30 ft).

KWS conducts a greenhouse trial.

Beets are rated for Root Aphids at harvest.

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



Aphanomyces Nursery

Magno Seed, LLC & KWS

Average of 2 years 2022 & 2023

Variety	Root Rating 1 - 9 Scale	Canopy Rating 1 - 9 Scale	Stand Loss 1 - 5 Scale
C-G932NT	2.2	1.5	1.0
Resistant Check	2.5	1.7	1.0
BTS-128N	2.6	1.4	1.0
C-G229	2.7	1.9	1.0
C-G206NT	2.8	1.5	1.0
C-G049	2.8	1.7	1.0
C-G151	2.9	1.5	1.0
C-G214NT	2.9	1.5	1.0
C-G233	2.9	1.6	1.0
BTS-1183	3.0	1.8	1.0
C-G227	3.0	1.6	1.0
BTS-1122	3.0	1.7	1.0
SX-2296N	3.0	1.9	1.0
HIL-2332NT	3.1	2.4	1.0
BTS-1276	3.1	1.6	1.0
BTS-123N	3.1	1.4	1.0
BTS-197N	3.3	2.3	1.0
MA-933NT	3.4	2.3	1.0
HIL-2403	3.5	2.3	1.0
HIL-2361	3.5	2.1	1.0
SX-2295	3.5	1.8	1.0
HIL-9865	3.5	2.0	1.0
MA-940	4.0	2.3	1.0
HIL-2238NT	4.1	3.1	1.0
HIL-2425NT	4.2	3.6	1.0
Susceptible Check	4.6	2.4	1.0
Average	3.19	1.95	1.00

Root and Canopy Ratings (1 - 9 scale): 1 = very little damage, 2 = up to 20% damage, 4 = up to

60% damage, 6 = up to 70% damage and 8 = up to

90% damage.

Stand Rating (1 - 5 scale): 1 = up to 20% loss, 2 = up to 40% loss, 3 = up to 60% loss, 4 = up

to 80% loss, and 5 = up to 100% loss.

Note: Root rating is the average of Magno Seed, LLC and KWS ratings. Foliar ratings and Stand Loss

are from KWS only.



Rhizomania Nursery

USDA, Kimberly, Idaho

Average of 2 Years, 2022 & 2023

Trial Quality: Good

Location: Kimberly, Idaho

Plot Size: 2 Rows x 24 ft., 6 reps

Variety	Root Rating 0-9	RWSA	% Sugar	T/A	Foliar Rating 0-100
BTS-1122	2.3	10652	16.6	37.5	3.0
C-G206NT	2.3	10972	16.4	38.4	1.7
C-G151	2.5	10514	16.8	36.3	10.3
BTS-1183	2.5	10494	16.8	36.2	4.5
C-G233	2.5	10242	16.9	35.5	1.6
C-G932NT	2.6	10077	17.1	33.8	0.2
BTS-1276	2.6	10103	17.2	33.6	3.4
C-G214NT	2.7	9506	16.9	32.6	3.1
C-G049	2.7	8920	16.4	31.7	3.0
BTS-123N	2.8	9092	16.2	32.7	2.4
HIL-2332NT	2.8	9109	16.7	31.8	0.6
BTS-128N	2.8	8752	16.2	31.4	1.3
HIL-9865	2.8	9125	16.6	31.9	4.8
C-G227	2.8	9222	16.9	31.7	45.1
MA-933NT	2.8	8769	16.7	30.3	2.9
HIL-2425NT	2.8	8894	16.6	31.4	0.4
BTS-197N	2.8	8839	16.9	30.2	2.8
HIL-2238NT	2.9	8513	16.3	30.6	4.5
C-G229	2.9	9413	17.3	31.2	1.5
SX-2296N	2.9	8745	16.7	30.4	15.1
MA-940	3.1	7928	16.5	27.9	1.0
HIL-2361	3.1	7736	16.8	26.6	1.8
SX-2295	3.2	7256	16.1	26.1	30.7
HIL-2403	3.3	6515	16.4	23.1	15.4
Susceptible Check	4.7	3094	14.1	13.2	100.0
Average	2.8	8899.2	16.57	31.04	10.43
LSD 5%	0.5	1925.1	0.6	6.7	29.3
CV %	8.7	10.5	1.8	10.5	136.3

Root Rating (1-9 scale): 1 = very little damage, 2 = up to 20% damage, 4 = up to 60%

damage, 6 = up to 75% damage and 8 = up to 90% damage.

Foliar Rating: 0 = best, 100 = worst.

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



Fusarium Nursery American Crystal Sugar Company Average of 2 years, 2022 & 2023

Trial Quality: Good

4 evaluation dates toward end of season Evaluated:

Plot Size: 2 Rows x 17 ft., 4 reps

Variety	Avg of 2 Years	2022	2023
varioty	Rating 1-9	Rating 1-9	Rating 1-9
C-G233	2.8	3.0	2.5
C-G151	3.2	3.0	3.3
BTS-1122	3.2	3.1	3.3
BTS-1276	3.5	3.6	3.5
BTS-128N	3.6	3.9	3.3
BTS-1183	3.6	3.7	3.5
C-G932NT	3.6	3.8	3.5
C-G214NT	3.7	4.0	3.3
C-G229	3.7	3.8	3.6
C-G049	3.7	3.9	3.5
BTS-197N	3.9	4.0	3.8
C-G206NT	4.0	4.3	3.7
BTS-123N	4.0	4.3	3.8
C-G227	4.1	4.5	3.8
SX-2296N	4.5	5.0	3.9
SX-2295	4.5	5.0	4.0
HIL-2332NT	4.8	5.6	4.0
HIL-2403	4.9	5.4	4.3
MA-933NT	5.0	5.4	4.5
HIL-2238NT	5.0	5.7	4.3
HIL-2425NT	5.1	5.7	4.5
HIL-2361	5.2	5.8	4.6
MA-940	5.3	5.9	4.7
HIL-9865	5.3	6.0	4.6
Average	4.16	4.53	3.83

Foliar Rating (1-9 scale): 1 = very little damage, 2 = up to 20% damage, 4 = up to 60% damage, 6 = up to 75% damage, and 8 = up to 90% damage. Values are an average of 4 ratings.

Official Variety and Plant to Stand Trials Michigan Sugar Company Michigan Information

	Akron	Kinde	Middleton	Pigeon	Richville	Minden City	Sandusky
Grower	Sylvester	Grekowicz	Mininger	Trost	SVREC	Maurer	Gerstenberger
Trial Quality	OVT - Good PTS - Fair	OVT - Excellent	OVT - Very Good PTS - Very Good	OVT - Good PTS - Good	OVT - Very Good	OVT - Good PTS - Good	OVT - Good
Planted	April 26	May 18	April 25	May 23	April 14	May 18	May 11
Harvested	OVT - PTS - September September 21 22	October 18	September 18	October 3	November 1	October October 13	October 4
Soil Texture	Sandy Clay Loam	Sandy Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Clay Loam	Clay Loam
Soil pH	7.4	7.6	6.4	7.0	7.7	7.4	7.2
Soil OM	2.0%	2.7%	2.6%	2.6%	2.1%	1.9%	2.8%
Phosphorus	99	131	112	146	31	82	96
Potassium	195	111	181	182	149	164	182
Magnesium	245	245	265	210	370	195	220
Manganese	42	33	33	36	42	40	35
Boron	1.2	1.5	0.7	1.2	1.5	1.4	1.1
Zinc	4	4.11	9.5	9.3	9	7.9	6.9
Nitrogen Added	35 lbs. 2x2 120 lbs. Side Dress	35 lbs. 2x2 Fall Manure	35 lbs. 2x2 Fall Manure	150 lbs. Urea PPI 35 lbs. 2x2	125 lbs. Urea/ESN PPI 35 lbs. 2x2	35 lbs. 2x2 120 lbs. Side Dress	200 lbs. Urea PPI 35 lbs. 2x2



MIGHIEAN SUEAR Cercospora Fungicides: Application Dates and Products

Location	Treatment 1**	Treatment 2**	Treatment 3**
Gerstenberger	7/5 - EBDC	7/18 - Delaro, Proline, EBDC	8/1 - SuperTin, Topsin, EBDC
Grekowicz	7/5 - EBDC	7/18 - Delaro, Proline, EBDC	8/1 - SuperTin, Topsin, EBDC
Maurer	7/5 - EBDC	7/18 - Delaro, Proline, EBDC	8/1 - SuperTin, Topsin, EBDC
Mininger	6/28 - EBDC	7/10 - Delaro, Proline, EBDC	7/25 - SuperTIn, Topsin, EBDC
SVREC	6/30 - EBDC	7/10 - Delaro, Proline, EBDC	7/24 - SuperTin, Topsin, EBDC
Sylvester	6/29 - EBDC	7/10 - Delaro, Proline, EBDC	7/24 - SuperTin, Topsin, EBDC
Trost	7/11 - Delaro, Proline, EBDC	7/26 - SuperTin, Topsin, EBDC	8/9 - Veltyma, EBDC

Location	Treatment 4**	Treatment 5**	Treatment 6*
Gerstenberger	8/14 - Veltyma, EBDC	8/28 - SuperTin, EBDC	9/8 - Propulse, Badge SC
Grekowicz	8/14 - Veltyma, EBDC	8/28 - SuperTin, EBDC	9/11 - Propulse, Badge SC
Maurer	8/14 - Veltyma, EBDC	8/28 - SuperTin, EBDC	9/8 - Propulse, Badge SC
Mininger	8/8 - Veltyma, EBDC	8/24 - SuperTin, EBDC	
SVREC	8/8 - Veltyma, EBDC	8/21 - SuperTin, EBDC	9/6 - Propulse, Badge SC
Sylvester	8/8 - Veltyma, EBDC	8/21 - SuperTin, EBDC	9/6 - Propulse, Badge SC
Trost	8/28 - SuperTin, EBDC	9/11 - Propulse, Badge SC	

EBDC* = Manzate Maxx or Manzate Pro-Stick

spray program start dates. Control was excellent in all trials until rains in late August and early September delayed the timing of some fungicide applications. Comments: Cercospora control in 2023 was mostly good to very good. Dry conditions at the begininng of the season slowed plant growth and delayed The Mininger and SVREC locations experienced a low to moderate level of Cercospora leading up to harvest. Warmer than normal conditions in late September and early October likely warranted an additional application of fungicide at some locations.

^{**}MasterLock included in all Treatments.

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