



SUGARBEET SEED
ACH SEEDS®

Product Guide 2024

SOUTHERN MINNESOTA BEET SUGAR COOPERATIVE



Sugarbeet-growing regions across the U.S. have distinct requirements for cultivation and management that dictate unique seed traits and treatment strategies.

All varieties developed for Southern Minnesota Beet Sugar Cooperative growers are designed to maximize productivity without sacrificing pest and disease protection. All varieties have tolerance to Aphanomyces, Rhizoctonia and Fusarium and are bred to also include strong rhizomania tolerance.

Our Diamond Plated® Seed treatment series provides additional protection against seedling diseases in sugarbeet production. Our seed treatments are designed to protect the true genetic potential of the varieties.

Ask your ACH Seeds Crystal brand sales representative for more details.

For more than 20 years, ACH Seeds has collaborated with researchers and plant breeders to develop sugarbeet seed traits that offer superior disease and pest tolerance without sacrificing yield performance.

Our varieties combine multiple sources of rhizomania tolerance to maximize yield potential. Multi-source rhizomania tolerance is available in all Crystal varieties in the Southern Minnesota market.



Developing seed varieties for your success.

We take seed variety development very seriously. Putting customers first is also a priority for us. Our sales, marketing and breeding teams collaborate to develop seed varieties growers require for a productive season. Your success informs everything we do.

Ensuring you keep growing.

Our official varieties spend at least 10 years in development before being made available to growers. Sales, marketing and product management representatives convene three times a year to collaborate on hybrid development for each region of the country. Production plans are assembled and revisited over a 2-year period to ensure grower priorities are being met and hybrids in development are performing as expected. That's how we deliver seeds to meet your needs. From field performance to sugar potential, your productivity is our priority.

This brochure includes seed varieties developed for your area of the country. Visit ACHSeeds.com for more information.



HAND CROSS

The development of a parent to achieve offspring with desired genetics to increase productivity.



SELFINGS

The first step in seed multiplication.



PARTITIONS

The production of test hybrids for early-generation decisions.



EXPERIMENTAL HYBRIDS:

The production of varieties as potential candidates for official variety trials (OVT).



PRE-BASIC:

A genetically pure increase of selected parent seed. Is also known as breeder seed.



BASIC SEED:

This is seed planted as a seed increase to grow parents for commercial varieties.



COMMERCIAL SEED:

Seed is grown and processed to meet customer demand. OVT testing is conducted to ensure performance meets approval requirements.



SEED DELIVERY:

You plant the variety in your field.



The Power of +

CR+ Trait: Disease Protection with Proven Performance

The CR+ trait from KWS delivers Cercospora protection. Plus yield performance. Plus flexibility. Plus ROI.

After three years of use by farmers across North America, Crystal brand hybrids containing the CR+ trait have delivered on the promise of protection and performance. Identified and developed by KWS researchers and plant breeders, growers have benefited from disease tolerance and protection without sacrificing performance.

For growers, this means green sugarbeet leaves until harvest and healthier plants with potentially reduced post-emergent fungicide sprays when compared to conventional Cercospora varieties. Varieties containing the CR+ trait also perform well in both the presence and absence of Cercospora pressure, which means no yield drag in non-disease conditions.

Sugarbeet hybrid seed development

10 Years

SMBSC Varieties

- CRYSTAL M977**
- Excellent sugar per acre
 - Balanced disease package with impressive Rhizoctonia tolerance
 - Consistent, field-proven performance
 - Multisource rhizomania tolerance

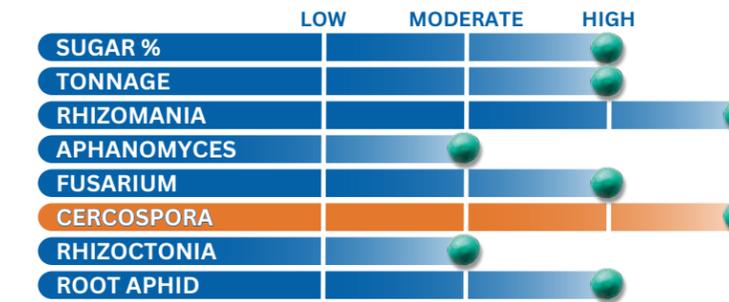


- CRYSTAL M028**
- High sugar per ton with good sugar per acre
 - Balanced disease package including good Aphanomyces, Rhizoctonia and Cercospora tolerance
 - Fully approved with consistent performance
 - Multisource rhizomania tolerance

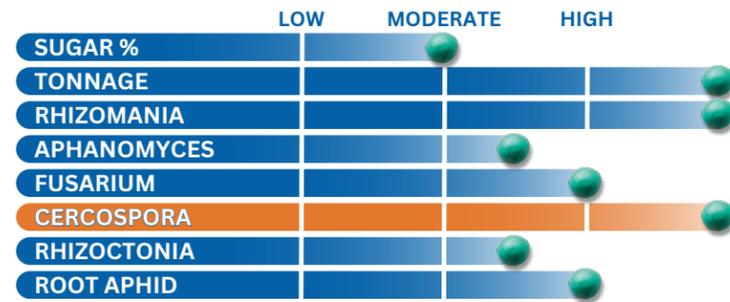


SMBSC Varieties

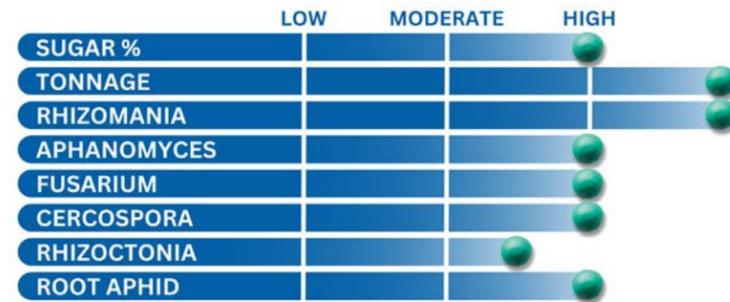
- CRYSTAL M168**
- Excellent Cercospora tolerance with the CR+ trait
 - Good sugar per ton with strong sugar per acre
 - Balanced disease package
 - Multisource rhizomania tolerance



- CRYSTAL M089**
- Excellent Cercospora tolerance with the CR+ trait
 - Very good sugar per acre
 - Solid root rot package with good Rhizoctonia, Aphanomyces and Fusarium tolerance
 - Multisource rhizomania tolerance



- CRYSTAL M106**
- Very high sugar per acre with good balance of sugar and tonnage
 - Improved Cercospora tolerance
 - Balanced disease package including Rhizoctonia, Aphanomyces and Fusarium
 - Multisource rhizomania tolerance



Notes:



Contact your ACH Seeds Crystal brand sales representative to discuss your seed needs today. | ACHSEEDS.COM



JAKE BOERSMA | CENTRAL REGION MANAGER

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Valued Sugarbeet Grower,

As I write this sugarbeet pre-harvest efforts have started. It's an exciting time of year because we begin to learn what type of crop is in the ground. Overall, the southern Minnesota growing region has a quality crop coming with low incidence of disease and Cercospora leaf spot has been managed exceptionally well. The combination of sound spray practices, timeliness of fungicide applications and improved genetics has resulted in healthy green leaves to capitalize on fall sunshine.

Our varieties have looked good in the field, and we have gotten some nice feedback already from the first round of pre-pile. We will again offer a good mix of CR+ and traditional varieties in 2024 to give you, the grower, high-performing options to choose from. Take a closer look at our projected lineup for 2024, and we hope the variety charts help you place our products accordingly on your farm.

I would encourage you to contact me with any questions or comments you might have for us as we're always looking and striving for ways to better serve our customers and the sugar industry. As always, thank you for entrusting us with your business and many wishes for a great harvest season.

*Our 2023 Winner.
Congratulations,
Kerkhoven-Murdock-Sunburg
(KMS) Schools FFA Alumni!*

KMS FFA Alumni is one of six organizations across the country selected to receive \$10,000 from the 2023 Homegrown Giving program. The funds will be used to support a variety of projects and efforts to enhance the quality of life across rural communities in sugarbeet-producing areas. With the donation, the KMS FFA Alumni plan to enhance the KMS agriculture class offerings and provide additional resources to expand their crop plots for student learning.

"We're focused on developing students with the goal of getting them to pursue agricultural career opportunities that will bring them back to live and work in our community. We do so by offering scholarships and providing opportunities for students to experience all agriculture has to offer."

- Cody Suter, KMS FFA Alumni President



We won the  of our hometown.
Kerkhoven, Minnesota

"I'm grateful to ACH Seeds and the opportunities we will have from the contributions of their Homegrown Giving program. I hope everyone takes advantage of this great program in their community."
- **Cody Suter, KMS FFA Alumni President**

"We are proud to partner with the KMS FFA Alumni and support their efforts in the community. When local communities thrive, everyone benefits. Homegrown Giving empowers and strengthens organizations in those areas working to make real impacts, while also enhancing the future of agriculture."
- **Jake Boersma, ACH Seeds Central Region Manager**



MSC Region: Cass City Public Schools
Cass City, Michigan



TASCO Region: Declo High School FFA
Declo, Idaho



WSS Region: Gering High School FFA
& Ag Career Pathway
Gering, Nebraska



WSN/WYS Region: Huntley Project
Schools FFA & Ag Department
Worden, Montana



SBMSC Region: Kerkhoven-Murdock-
Sunburg (KMS) Schools FFA Alumni
Kerkhoven, Minnesota



MDFC Region: West Central Area
(WCA) Schools FFA
Barrett, Minnesota



Congratulations to our 2023
Homegrown Giving Recipients!

VISIT [ACHSEEDS.COM](https://www.achseeds.com) TO LEARN MORE.

