



American Crystal Sugar Company

AgNotes

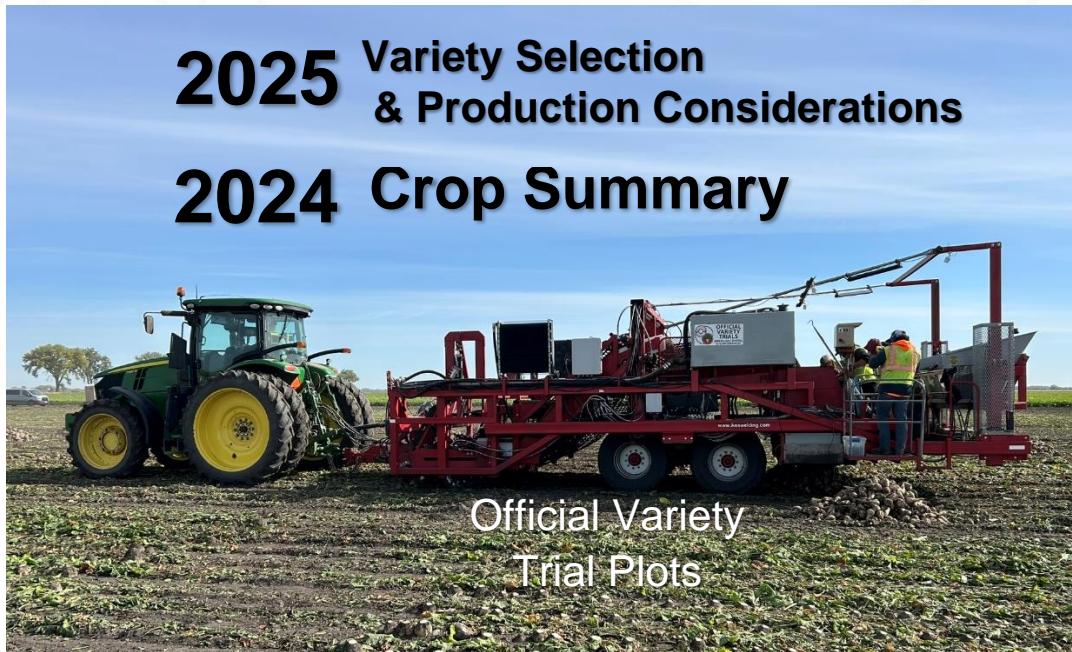


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Joe Hastings,
General Agronomist
Editor

www.crystalsugar.com

2025 Variety Selection & Production Considerations

2024 Crop Summary



[2024 Official Coded Variety Performance Trial Data](#)

The American Crystal 2024 Official Variety Trial (OVT) data for varieties approved for crop year 2025 has been published and is available on crystalsugar.com at:

<https://www.crystalsugar.com/agronomy/crystal-beet-seed/official-coded-trials/>

Many growers have already purchased seed for the 2025 sugarbeet crop. Now is a good time to review the OVT data and be sure that the varieties you've selected offer the appropriate characteristics of disease tolerance, yield, and sugar quality for placement in each unique field on your farm.

OVT trial data can be downloaded in a PDF document or an Excel file. Both have the same data sorted in 8 different ways. Color coded disease tolerance ratings can help you distinguish between the different degrees of tolerance.

OVT variety data is pre-sorted in the 2024 Variety Selector in the following ways (each on a separate page):

- Seed Company
- Rev/Ton
- Rev/Acre
- Aphanomyces Tolerance Rating
- Rhizoctonia Tolerance Rating
- Fusarium Tolerance Rating
- Cercospora Tolerance Rating
- Emergence Percent

Downloading the Excel version will allow you to create your own sorts to examine the data as well.



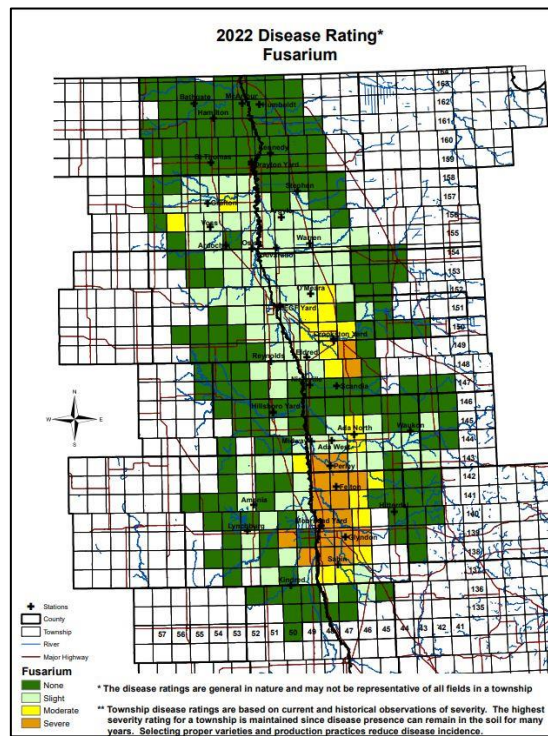
<https://www.crystalsugar.com/agronomy/ag-gold-standards/>

- Fertility
- Variety Selection
- Stand Establishment
- Weed Control
- Disease & Insect Control
- Harvest

**Your Way
TO GROW**

Considerations on Variety Placement

- Past variety performance on your farm.
- Known disease presence in fields to be planted in 2025.
 - Links to general township disease presence observations & management recs:
 - [Aphanomyces](#)
 - [Rhizoctonia](#)
 - [Fusarium](#)
- Historical production characteristics by field.
 - Below average sugar and/or above average tons:
 - Consider a higher sugar variety to optimize recoverable sugar/acre.
 - Above average sugar and/or below average tons:
 - Consider a higher yielding variety to optimize recoverable sugar/acre.
- Pre-piling from designated fields, headlands, and splits:
 - Use high sugar varieties to help maximize your Pre-pile Premium
- Field distance from piling site/factory:
 - If long distance, consider higher sugar, moderate tonnage varieties to lower transportation costs.



CR+ Variety Placement Considerations

- Fields/areas not planned for Pre-pile deliveries:
 - Take full advantage of higher Cercospora tolerance further into the growing season.
- Fields bordering previous year's beet fields.
- Fields protected from wind (higher humidity), river fields, shelter belts.
- Fields farther away that may be difficult to reach for timely fungicide applications.

Production Considerations in 2025

We look forward with optimism to next year's crop potential and general production challenges to prepare for. Each topic heading is a link to its subject material on the Crystal website.

- As always, check with your pesticide supplier to make sure you have access to pesticides needed for your 2025 sugarbeet crop production.

Stand Establishment

- Cover crops should also be used to protect seedling sugarbeets and limit erosion from strong spring wind events.

Weed Control

- All areas of the Red River Valley need to have a plan to control glyphosate resistant weeds. Particularly waterhemp, kochia, and common ragweed.
 - For waterhemp, this plan should incorporate a layered approach of soil applied herbicides, that includes a PPI/PRE herbicide application along with 2 POST Lay-by herbicide applications.
 - Kochia requires the use of PPI/PRE applied ethofumesate. Possible burn-down application of paraquat for emerged kochia prior to sugarbeet emergence. For Post applications, scout and time Spin Aid treatments on small "puff ball", dime-sized kochia.
 - Treat common ragweed when it's small, <2", with Stinger/Stinger HL and repeat with subsequent application.

Sugarbeet Root Maggot (SBRM) - Continued High Pressure

- In areas with SBRM pressure plan accordingly.
- The best treatment for SBRM control is using:
 - **Counter** insecticide At-Plant followed by POST insecticide applications.
 - Multiple POST insecticide applications may be needed for optimal control to reduce the egg-laying fly populations.
 - **Thimet** granular POST offers great SBRM control.
 - Prepare to use a **state registered Chlorpyrifos product, Mustang Maxx, or Asana** as POST liquid insecticides.



Cercospora Leafspot (CLS)

- The proper timing of initial & subsequent CLS fungicide applications helped to proactively keep Cercospora in-check, maintain healthy leaves, and optimize variety performance.
- In 2024, CLS could be found in fields but was generally at low levels and did not reach the level of severity witnessed in 2020 & 2021.
 - However, a higher prevalence of CLS infection was observed in fields that had later initial fungicide applications and/or extensively delayed subsequent applications compared to those fields with earlier initial and properly timed subsequent applications.
- A timely initial fungicide application is needed to delay the on-set of Cercospora infections thereby reducing end-of-season severity levels.
 - Target initial fungicide applications to be done by July 7th.
- Tank-mix and rotate fungicide modes of action for resistance management and maintain proper fungicide application intervals.
- Planting varieties with good CLS ratings can make a big difference in infection levels. However, this may not equate to fewer fungicide applications.
- **Note: The Official Variety Trials use the ACSC recommended CLS fungicide program.**
 - In the OVT data, cross reference variety performance against their Cercospora tolerance ratings
- **CR+ varieties still require timely initial and subsequent fungicide applications to limit the propagation of CLS spores that may be resistant to the high tolerance trait and to optimize varietal performance.**
Doing so maintains the CR+ trait's effectiveness against CLS into the future.

Consult with your
Agriculturist with any
questions



For prompt answers to your questions and comments, call and leave a message and Tom Astrup or one of his staff will respond as soon as possible.

**Shareholders:
1-800-633-8941**

2025 Sugarbeet Winter Meeting Schedule

- **Sugarbeet Research and Reporting Session**
 - January 14th @ Hilton Garden Inn, Fargo, ND
- **Sugarbeet Grower Seminars**
 - Grand Forks – February 6th @ Alerus Center in Grand Forks
 - Fargo - February 11th @ Hilton Garden Inn in Fargo
 - Grafton – February 13th @ Grafton Armory
- **International Sugarbeet Institute** – March 19th & 20th @ the Fargodome in Fargo, ND

2024 Crop Summary

Station	Yield	Sugar %	SLM %	Rec Sugar/Ton	Rec Sugar/Acre
MOORHEAD YARD	28.7	19.23	1.22	360	10,332
HITTERDAL	32.7	18.53	1.20	347	11,347
LYNCHBURG	31.7	19.18	1.27	358	11,349
KINDRED	30.0	19.68	1.15	371	11,130
AMENIA	33.3	18.95	1.25	354	11,788
PERLEY	32.9	18.92	1.22	354	11,647
FELTON	31.5	19.09	1.25	357	11,246
SABIN	28.3	18.31	1.30	340	9,622
GLYNDON	26.5	18.40	1.24	343	9,090
MOORHEAD DISTRICT	30.7	18.93	1.23	354	10,868
HILLSBORO YARD	31.6	18.70	1.22	350	11,060
WAUKON	28.7	18.48	1.21	345	9,902
ADA WEST	32.6	18.90	1.19	354	11,540
ADA NORTH	32.7	19.40	1.21	364	11,903
MIDWAY	32.8	19.43	1.17	365	11,972
REYNOLDS	33.9	18.20	1.22	340	11,526
HILLSBORO DISTRICT	32.1	18.71	1.21	350	11,235
CROOKSTON YARD	33.3	18.33	1.25	342	11,389
NIELSVILLE	33.3	18.95	1.21	355	11,822
ELDRED	33.5	18.68	1.20	350	11,725
SCANDIA	31.8	18.70	1.23	349	11,098
WARREN	31.5	18.25	1.27	340	10,710
O'MEARA	31.4	18.06	1.25	336	10,550
CROOKSTON DISTRICT	33.7	18.50	1.24	345	11,627
EGF YARD	33.5	18.43	1.25	344	11,524
ARDOCH	32.6	18.81	1.27	351	11,443
VOSS	33.0	18.54	1.27	345	11,385
OSLO	34.3	18.78	1.24	351	12,039
ARGYLE	32.0	18.39	1.26	343	10,976
ALVARADO	35.8	18.38	1.22	343	12,279
EGF DISTRICT	33.3	18.42	1.25	343	11,422
DRAYTON YARD	31.0	18.40	1.29	342	10,602
MARTHUR	28.9	18.82	1.25	351	10,144
BATHGATE	30.5	17.39	1.31	322	9,821
HAMILTON	33.0	18.94	1.26	354	11,682
GRAFTON	32.6	18.15	1.27	338	11,019
HUMBOLDT	32.5	19.16	1.22	359	11,668
STEPHEN	35.6	18.64	1.25	348	12,389
ST.THOMAS	32.8	18.12	1.26	337	11,054
KENNEDY	31.7	18.39	1.33	341	10,810
DRAYTON DISTRICT	31.7	18.37	1.28	342	10,841
RED RIVER VALLEY	32.3	18.53	1.25	346	11,176