

2022 CLS Quicksheet

SMBSC CLS Fungicide Principles

- Start with an EBDC alone (application zero) when the leaves between rows are 4 inches apart.
- Always use two effective modes of action in every application after application zero.
- Alternate chemistries and alternate triazole products used during the season.
- Use a spray volume of 20 to 25 gpa (5 to 7 gpa for aerial applications).
- Make fungicide applications on a 10 to 12 day interval, unless environmental conditions dictate otherwise.
 - CLS DIV's will begin posting in June when CLS may become active: <https://www.smbosc.com/agronomy/AgronomyDefault>
 - Utilize nozzle selection, pressure, and adjuvants to achieve optimal coverage.
 - Optimal droplet size for coverage will depend on wind conditions.
 - A medium droplet size will provide the best coverage in the most situations (200-350 microns).
- Strobilurins (Headline, Priaxor, etc.), benzimidazoles (Topsin), and SDHI fungicide products are not considered effective tank mix partners.
- **Do not** tank mix fungicides and glyphosate.
- Consult labels before tank-mixing fungicides with other crop protection products.
- Always follow the label for application instructions and restrictions.

Variety Ratings

Variety	Rating
Crystal M002	2.0
Beta 9986	2.3
Beta 9098	2.5
Crystal M089	2.6
Crystal M951	2.6
Beta 9952	2.8
SES-V 862	3.6
Crystal M028	4.0
Crystal M837	4.0
Hilleshog 2327	4.1
SES-V 863	4.1
SES-V 881	4.1
Beta 9044	4.2
Beta 9088	4.2
Hilleshog 2219	4.2
Hilleshog 2379	4.3
SES-V 883	4.3
Crystal M977	4.4
SES-V 894	4.4

* Lower ratings are more tolerant, higher ratings are more susceptible. These are 2 year ratings from 2020 and 2021.

Standard Fungicide Program

0. EBDC Alone
1. Triazole + EBDC
2. Tin + EBDC
3. Triazole + EBDC
4. Tin + EBDC *Scout*
5. Triazole + EBDC (copper?)
6. Tin + EBDC

HCT Fungicide Program

0. EBDC Alone
1. Triazole + EBDC
2. Skip
3. Tin + EBDC *Scout*
4. Skip
5. Triazole + EBDC
6. Skip

*Small plot research and field observations show that application zero provides significantly better control than fungicide spray programs that started later. Delaying the onset of disease is critical.

Triazole Products	Rate/Acre	REI	PHI	Tin Products	Rate/Acre	REI	PHI
Domark	6.9 oz	12hrs	14 days	Super Tin 4L	8 oz	48hrs	7 days
Minerva	13 oz	12hrs	14 days	Agri Tin	5 oz	48hrs	7 days
Provysol	5 oz	12hrs	7 days				
Inspire XT	7 oz	12hrs	21 days	Agri Tin Flowable	8 oz	48hrs	7 days
Proline 480 SC	5.7 oz	12hrs	7 days	*Do not exceed 15 oz/A of Agri Tin 80 WP or 24 oz/A of Super Tin 4L/Agri Tin Flowable per season.			
Enable 2F	8 oz	12hrs	14 days				
Topguard	14 oz	12hrs	21 days				

*These fungicide products have restrictions on the amount of product available for use during a season. **Do not use** both Inspire XT and Provysol in the same season as these products have a high level of cross resistance.

Premixed Products	Rate	REI	PHI
Veltyma <i>Provysol+Headline</i>	10 oz	12hrs	7 days
Brixen <i>Minerva+Azoxytrobilin</i>	21 oz	12hrs	14 days
Acropolis <i>Minerva+T-Methyl</i>	32 oz	24hrs	21 days
Lucento <i>Topguard+SDHI</i>	5.5 oz	12hrs	21 days
Minerva Duo <i>Minerva+Tin</i>	16 oz	48hrs	14 days
Delaro <i>Proline+Trifloxystrobin</i>	11 oz	12hrs	21 days
REGEV <i>Difenoconazole+TTO</i>	8.5 oz	12 hrs	7 days

EBDC Products	Rate/Acre	REI	PHI
Manzate Max	1.6 qts	24hrs	14 days
Manzate Pro-Stick	2 lbs	24hrs	14 days
Dithane M45	2 lbs	24hrs	14 days
Dithane F-45	1.6 qts	24hrs	14 days
Koverall	2 lbs	24hrs	14 days
Penncozeb 80WP	2 lbs	24hrs	14 days
Penncozeb 75DF	2 lbs	24hrs	14 days

*There may be other EBDC products available for use in sugar beets. Follow label instructions.

*Premixed fungicide products may not contain two effective modes of action (**most do not**). If these products are used it should be tank mixed with EBDC.
****Delaro does not contain a full rate of Proline.**
*****REGEV should not be used in the same season as Inspire XT or Provysol.**

Copper Products	Rate/Acre	REI	PHI
Badge SC	2 pts	48hrs	0 day
Badge X2	2 lbs	48hrs	0 day
Champion	1.25 lbs	48hrs	0 day
Champ 2 Flowable	2 pts	48hrs	0 day
Cuprofix Ultra	2 lbs	48hrs	0 day
Kocide 3000	1.25 lbs	48hrs	0 day

*There may be other copper products available for use in sugar beets. Follow label instructions.
 *Do not apply glyphosate within 7 to 10 days of a copper product as this may cause phytotoxicity.

The information contained in this quicksheet is meant to provide options for a CLS fungicide program for your operation in 2022. However, it can not provide all the details for every application. **Consult your agriculturalist and the product label.**

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Agricultural Department
 Southern Minnesota
 Beet Sugar Cooperative

