CLS Ag Beet Series

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The Inconvenience of Premix Fungicides

The main goal of the CLS fungicide program is to end the year with green canopies and minimal economic impact from CLS infections. Another major goal of the fungicide program is to reduce the likelihood of resistance development to any chemistry. We can best accomplish this through tank-mixing, rotating chemistries, and reducing the number of times we apply any particular chemistry in a single season.

Placing Topsin/T-Methyl and Headline/Gem 500 SC back into the program adds additional modes of action that alleviates pressure on the other chemistries. We are replacing one EBDC application with Topsin/T-Methyl and one DMI/triazole application with Headline/Gem 500 SC. This allows us to only use one triazole from each resistance group during the season.

In general, most premixes available in sugar beets for CLS control either do not contain two effective modes of action or they combine two products that we would prefer to rotate and tank-mix with another product. While both active ingredients are effective against CLS, they do not align with our resistance management goals.

Premix Product	Components	Negative Attributes
Priaxor	Headline+SDHI	SDHI and TTO are not effective against CLS. While these premix products can be used in a program when tank mixed with EBDC, they often come at additional expense for no additional benefit.
Luna Flex	Inspire+SDHI	
Lucento	Topguard+SDHI	
Regev	Inspire+TTO	
Brixen/Affiance	Minerva+Azoxystrobin	Azoxystrobin is not as strong against CLS as Headline or Gem 500 SC and doesn't allow for rotation of chemistries.
Veltyma	Provysol+Headline	Contain two effective active ingredients but do not allow for rotation of chemistries for season long control and resistance management. *Delaro does not contain a full rate of Proline.
Delaro*	Proline+Flint Extra/Gem 500 SC	
Acropolis	Minerva+T-Methyl	
Minerva Duo	Minerva+Tin	

For a more detailed explanation on the changes to the CLS fungicide program please watch Dr. Nate Wyatt's and David Mettler's video presentations under the meeting info tab. https://www.smbsc.com/agronomy/AgronomyDefault