

# AGRICULTURAL BEET

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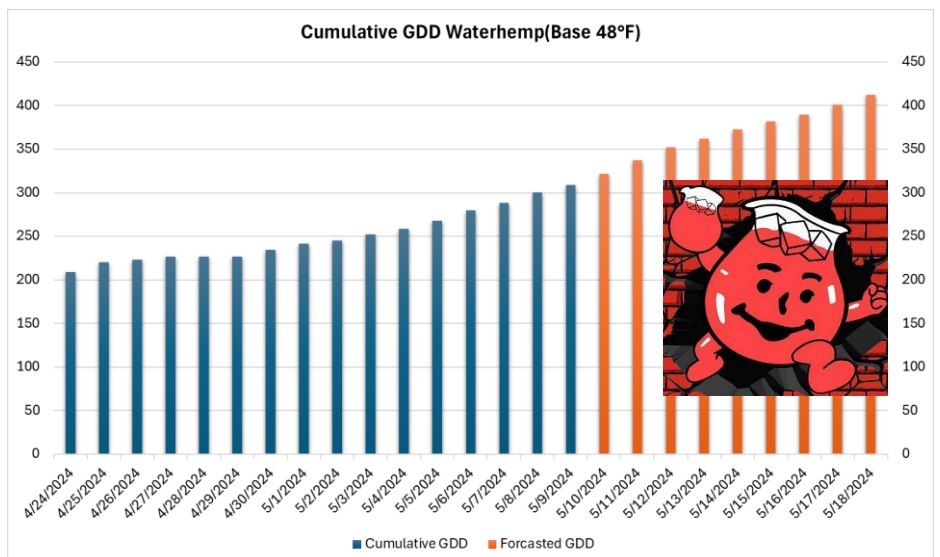
## CY24 Waterhemp Emergence Prediction

Small seeded broadleaf weed emergence is occurring as we speak, and our **2024 waterhemp battle** is about to begin. Earlier than average planting dates have given us a head start to beat weeds off the starting line. Adequate rains we received should provide full pre-emerge activation.

**The SMBC Ag staff** have already observed early emerging lambsquarters and Redroot pigweed, meaning that waterhemp may soon Kool-Aid Man itself right through the wall of your herbicide program!

Based on the model confirmed by Tom Peters, emergence will begin at **350 GDD**.

**With the current forecast, depending on location, we will hit 350 GDD RIGHT NOW!!!**



As I was about to hit send, **waterhemp was identified near the co-op today**. The photo to the left from this morning is further proof of the model.

Agriculturalists are scouting a lot of acres right now, and coordinating post emerge herbicide applications with all growers. See the following Weed Control Quicksheet(v.2.2.2024) to select the appropriate post emerge herbicide applications. Our 2024 pre-emerge program is off to a great start. Contact your Agriculturalist with questions to stay ahead of waterhemp this season. We wish everyone a Happy Mother's Day. There are worse gifts than a Sunday drive with mom to scout your fields for weeds!

### Information Credit:

# WEED CONTROL QUICKSHEET

Post emergence weed control options in sugar beets are very limited. Utilizing a pre-emergence product along with a lay-by application(s) is currently our best option for optimizing waterhemp control. The information contained in this quicksheet is meant to provide options for a weed control program for your operation in 2024. However, it can not provide all the details for every application. **Consult your agriculturist and the product label.**

## Pre-Emerge Herbicide Options

Herbicide	Rate	Cover Crop Compatibility	Additional Notes
<b>Dual Magnum*</b>	0.5 to 0.75 pt/A depending on organic matter	Yes	Some risk of beet injury on low organic matter soils in cool/wet conditions.
<b>Ethofumesate**</b>	Up to 7.5 pt/acre	No, unless using 2 pint/A or less	Good on waterhemp. Higher rates will carry longer into the season.
<b>Eptam</b>	2.3 to 3.4 pt/A	Stunts cover crop	<u>Must be immediately incorporated.</u> Some risk of beet injury.
<b>Ro-Neet SB</b>	4 to 5.3 pt/A	Stunts cover crop	<u>Must be immediately incorporated.</u>
<b>Maxtron 4SC</b>	Up to 7.94 pt/A	No, unless using 2 pint/A or less	Newly labeled ethofumesate product.

\*Indemnification form needed to use pre-emerge Dual Magnum in sugar beets. Go to <https://www.syngenta-us.com/labels/indemnified-label-login>

\*\*Ethofumesate products labeled for sugar beet: Nortron SC, Ethofumesate 4SC, Ethotron SC, and Nektron SC.

## Lay-by Herbicide Options

Herbicide	Single Application Rate	Split Application Rate	Additional Notes
<b>Dual Magnum</b> (or generic S-metolachlor)	1 to 1.66 pt/A Cannot exceed 2.67 pt/A postemergence.	1 pt/A	Needs 0.5" of rain needs for activation. 60 day PHI. <i>Be aware of generic S-metolachlor products not labeled for sugar beets.</i>
<b>Outlook</b>	18 to 21 oz/A	12 oz/A (24 oz/A max use rate if split applied)	Only needs 0.25" of rain for activation. Cannot replant to sugar beet. 60 day PHI or 95 day PHI if applied from 9 to 12 leaf beets.
<b>Warrant</b>	2.5 to 4 pt/A Cannot exceed 8 pt/A in a season.	2 to 3 pt/A	Needs at least 0.75" of rain for activation. Cannot replant to sugar beet. 70 day PHI.

\*Crop injury risk is higher for single applications compared to split applications made a lower rates.

## Broadleaf Herbicide Options

Herbicide	Rate	Target Weed Stage	Additional Notes
<b>Glyphosate (PowerMax3)</b>	Emergence to 8 leaf beets: 25 oz/A (max of 50 oz/A Total from emergence to 8 leaf beets)	Small weeds under 1" for best control.	These rates are based on PowerMax3. When using a generic product, make sure you are following the product label. Always use AMS and add that to the tank before the glyphosate. 30 day PHI.
	8 leaf to canopy closure: 20 oz/A (max of 2 applications)		
<b>Stinger (clopyralid)</b>	4 oz/A on common ragweed 6 oz/A on giant ragweed	2 leaf weeds	Also good on volunteer soybean and thistles. May cause some temporary cupping of sugar beet leaves. Can be mixed with glyphosate or Sugarbeet Mix. 45 day PHI. High rates late in the season can carryover to beans the next season.
<b>Stinger HL</b>	2.4 oz/A on common ragweed 3.6 oz/A on giant ragweed		
<b>Sugar Beet Mix</b>	Talk to your agriculturalist for a recommendation. The Sugar Beet Mix rate depends on the size of sugar beets, the size of the weeds, and tank mix partners.		

## Grass and Volunteer Corn Herbicide Options

Herbicide	Rate	PHI	Additional Notes
<b>Assure II</b>	7 to 12 oz/A	45 day PHI	<ul style="list-style-type: none"> <li>A spray adjuvant is recommended with these products.</li> <li>Spring cover crop <u>cannot</u> be terminated prior to 4 leaf beets.</li> <li>All products can be tank-mixed with glyphosate. Be aware of adjuvant requirements for these herbicides.</li> <li>If crop oil is required and application is tank-mixed with glyphosate use an HSMOC adjuvant.</li> </ul>
<b>Clethodim (generic Select)</b>	6 to 8 oz/A	40 day PHI	
<b>Fusilade DX</b>	5 to 12 oz/A	<b>90 day PHI</b>	
<b>Poast</b>	8 to 24 oz/A	60 day PHI	
<b>Select Max</b>	9 to 16 oz/A	40 day PHI	

The information contained in this quicksheet is meant to provide options for a weed control program for your operation in 2024. However, it can not provide all the details for every application. **Consult your agriculturalist and the product label.**



Updated February 2<sup>nd</sup>, 2024

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