

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 2023. 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
Dual Magnum*	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.
Ethofumesate**	Up to 7.5 pt/acre	No, unless using less than 2 pt/A	Good on waterhemp. Higher rates will carry longer into the season.
Eptam	2.3 to 3.4 pt/A	Stunts cover crop	<u>Must be incorporated</u> . Some risk of beet injury.
Ro-Neet SB	4 to 5.3 pt/A	Stunts cover crop	<u>Must be incorporated</u> .

*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
Dual Magnum (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>
Outlook	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.
Warrant	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
Glyphosate (PowerMax3)	Emergence to 8 leaf beets: 25 oz/A (max of 50 oz/A Total from emergence to 8 leaf beets) 8 leaf to canopy closure: 20 oz/A (max of 2 applications)	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.
Stinger (clopyralid) Stinger HL	4 oz/A on common ragweed 6 oz/A on giant ragweed 2.4 oz/A on common ragweed 3.6 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.
Sugar Beet Mix	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
Assure II	7 to 12 oz/A	45 day PHI	<ul style="list-style-type: none"> A spray adjuvant is recommended with these products. Spring cover crop <u>cannot</u> be terminated prior to 4 leaf beets. All products can be tank-mixed with glyphosate. Be aware of adjuvant requirements for these herbicides. If crop oil is required and application is tank-mixed with glyphosate use an HSMOC adjuvant.
Clethodim (generic Select)	4 to 8 oz/A	40 day PHI	
Fusilade DX	5 to 12 oz/A	90 day PHI	
Poast	8 to 24 oz/A	60 day PHI	
Select Max	9 to 16 oz/A	40 day PHI	

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Herbicide Mode of Action and Sugar Beet Injury Symptoms by Thomas Peters, Michael Metzger, and Peter Regitnig is available at <https://www.ag.ndsu.edu/publications/crops/herbicide-mode-of-action-and-sugar-beet-injury-symptoms>



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