

Spin-Aid™ HERBICIDE

A New "Spin" On Control of Common Lambsquarters and Glyphosate Resistant Kochia In Sugarbeets*

Sugarbeet growers learned years ago that ethofumesate mixed with phenmedipham, the active ingredient in Spin-Aid™ Herbicide, improves control of kochia and common lambsquarters. In 2022 trials began to corroborate this finding and help provide growers with a new tool to combat these difficult weeds. Glyphosate was also included as part of the mixture. Data and photos from trials shown here, display the benefit of adding Spin-Aid to the mix.

In the 1970's Phenmedipham, was used on sugarbeets as Betanal® but was phased out in 1981 following the introduction of Betamix®, a pre-mix of the active ingredients phenmedipham and desmedipham. In 2014, registration of Betamix was discontinued. Recently, Belchim Crop Protection USA acquired the registration of phenmedipham under the trade name Spin-Aid Herbicide. Belchim intends to re-register phenmedipham for use in sugarbeets, but in the interim, with the help of Dr. Tom Peters (NDSU/UMN), Belchim obtained a 24(c) Special Local Needs registration for Spin-Aid use in Minnesota and North Dakota.

Common Lambsquarters Control in Sugarbeets Fairview, Montana 2022		
Treatment ^a	Rate (Fl oz/acre)	% Control
A) Ethofumesate + PowerMAX 3 B) Ethofumesate + PowerMAX 3 C) Ethofumesate + PowerMAX 3	A) 4 + 25 B) 4 + 25 C) 4 + 25	82 cd
A) Spin- Aid + Ethofumesate + PowerMAX 3 B) Spin- Aid + Ethofumesate + PowerMAX 3 C) Spin- Aid + Ethofumesate + PowerMAX 3	A) 12 + 4 + 25 B) 12 + 4 + 25 C) 12 + 4 + 25	99 a
A) Betamix + Ethofumesate + PowerMAX 3 B) Betamix + Ethofumesate + PowerMAX 3 C) Betamix + Ethofumesate + PowerMAX 3	A) 12 + 4 + 25 B) 24 + 4 + 25 C) 24 + 4 + 25	94 ab
^a 1.5 pt/a high surfactant methylated oil concentrate (HSMOC) + AMS 2.5%v/v added to all treatments Herbicide treatments timed to: A) 2 leaf SB, B) 4-6 leaf SB C) 8-10 leaf SB		

Common Lambsquarters Control
Field Trial - Oslo, Minnesota 2022



A field trial was conducted in Oslo, Minnesota in 2022 evaluating the control of Common lambsquarters achieved when including Spin-Aid in combination with ethofumesate. Three applications were made. The first included 12 oz/a of Spin-Aid + 6 oz/a of ethofumesate. The second was 20 oz/a of Spin-Aid + 6 oz/a of ethofumesate followed by the third of 28 oz/a of Spin-Aid alone. Note: 1.5 pt/a of HSMOC + 2.5% v/v AMS was added to all treatments. Photo was taken 10 days after last application.

The picture is clear, the combination of Spin-Aid and ethofusemate provides amazing control!

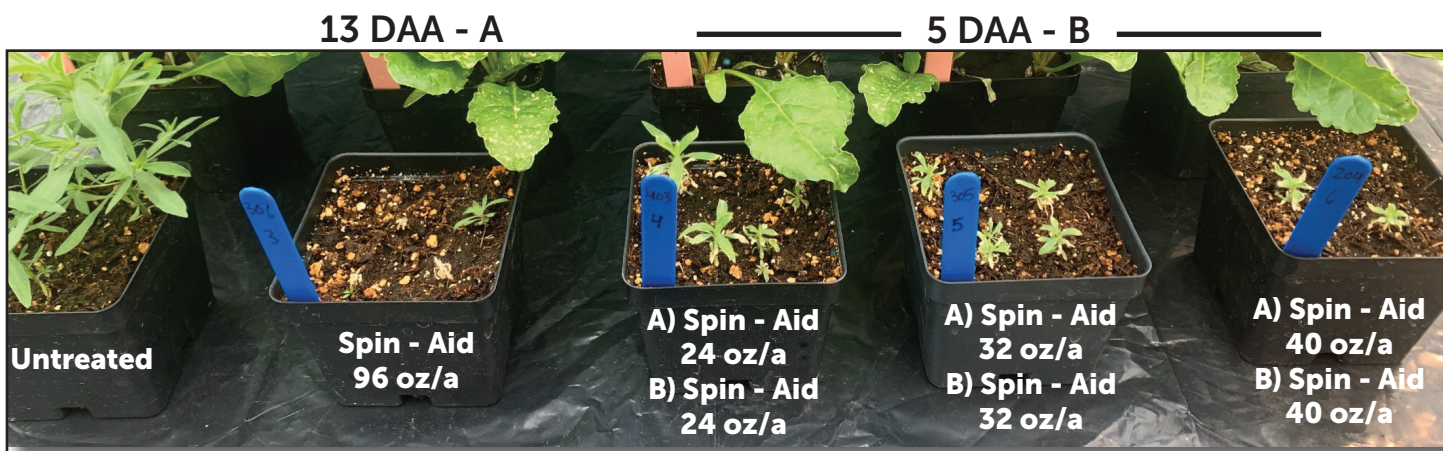
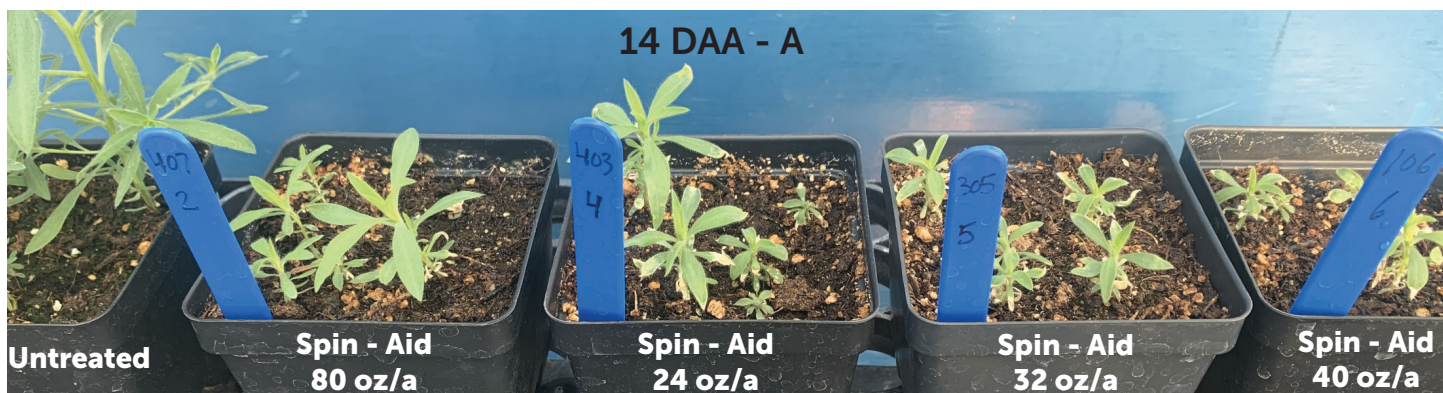
See reverse

Spin-Aid®

In the spring of 2023, Dr. Tom Peters conducted a greenhouse study to evaluate the control of kochia with different rates and applications of Spin-Aid. Spin-Aid treatment A (first application) was applied to 1" (dime size, 6-8 leaf) kochia. Treatment B (second application) was made five days after.

Note: Reduced rates with split applications (5-7 days apart) of Spin-Aid provided control while reducing the risk of crop injury.

Kochia Control- Greenhouse Trial Dr. Tom Peters, Spring 2023



Kochia stops growing, and the sugarbeet crop overtakes the weeds!



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GROWING TOGETHER

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