

WiscWeeds Herbicide Comparison for Residual Waterhemp Control in Corn

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Always read, follow and understand the pesticide label. **The label is the law.**
 Information presented does not constitute a recommendation or endorsement.

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Site description

Soil type: Sebewa
 Crop: Corn
 % OM: 4.3
 Hybrid: DKC 54-38 RIB
 pH: 6.4
 Corn planting date: 5/31/19
 Planting depth: 2.0 in
 Row spacing: 30 in
 Plot size: 10 x 30 ft
 Planting population: 35,000
 Previous crop and tillage: soybean; early spring chisel plowed and field cultivated and field cultivated day of planting
 Main weed present: waterhemp
 Experimental design: 4 reps, randomized complete block design

Herbicide application information

Date treated: 6/13/19
 Treatment: POST at V2 Growth Stage
 Air temperature (°F): 82
 Wind speed (mph)/direction: 6-9 SW
 Application equipment: CO2 backpack sprayer, GPA: 15

Stay tuned!

Trial will be replicated in multiple locations in 2020, and a final data report will be available in the Fall of 2020, complete with statistical analysis.

Waterhemp Residual Control – Preliminary Data				Waterhemp (Brooklyn, WI)	
SOA Group	Corn growth stage (days after treatment)			V7 (25 DAT)	VT (50 DAT)
	Herbicide and application rate (ac ⁻¹)	Active ingredient [ai concentration]	Equivalent Tank Mix (ac ⁻¹)	Relative Rank	
2	Python (1 oz)	flumetsulan [80%]	NA	5	5
2	Resolve SG (1.25 oz)	rimsulfuron [25%]	NA	5	5
4	Stinger (6 fl oz)	clopyralid [3.0 lb gal ⁻¹]	NA	5	5
4	Diflexx (10 fl oz)	dicamba [4.0 lb gal ⁻¹]	NA	5	5
5	Aatrex (24 fl oz)	atrazine [4.0 lb gal ⁻¹]	NA	3	3
5	Aatrex (48 fl oz)	atrazine [4.0 lb gal ⁻¹]	NA	3	2
5	Princep 4FL (64 fl oz)*	simazine [4.0 lb gal ⁻¹]	NA	3	2
15	Harness (24 fl oz)	acetochlor [7.0 lb gal ⁻¹]	NA	1	1
15	Dual II Magnum (26.7 fl oz)	S-metolachlor [7.64 lb gal ⁻¹]	NA	3	3
15	Outlook (17.5 fl oz)	dimethenamid-P [6.0 lb gal ⁻¹]	NA	2	2
15	Zidua (3.25 fl oz)	pyroxasulfone [85%]	NA	4	3
27	Balance Flexx (4.5 fl oz)	isoxaflutole [2.0 lb gal ⁻¹]	NA	3	2
27	Armezon (0.75 fl oz)	topramezone [2.8 lb gal ⁻¹]	NA	5	5
27	Callisto (3 fl oz)	mesotrione [4.0 lb gal ⁻¹]	NA	4	4
27	Laudis (3 fl oz)	tembotrione [3.5 lb gal ⁻¹]	NA	5	5
15 & 27	Armezon PRO (20 fl oz)	dimethenamid-P + topramezone	17.5 fl oz Outlook + 0.71 fl oz Armezon	2	2
15 & 27	Harness Max (64 fl oz)	acetochlor + mesotrione	32.2 fl oz Harness + 5.28 fl oz Callisto	1	1
15 & 27	Acuron Flexi (64 fl oz)	S-metolachlor + mesotrione + bicyclopyrone	24.0 fl oz Dual II Magnum + 5.12 fl oz Callisto + 0.64 oz bicyclopyrone	1	1
2 & 27	Capreno (3 fl oz)	thiencarbazone-Methyl + tembotrione	0.21 oz thiencarbazone-Methyl + 2.47 fl oz Laudis	5	5
2 & 27	Corvus (5.6 fl oz)	thiencarbazone-Methyl + isoxaflutole	0.40 oz thiencarbazone-Methyl + 5.26 fl oz Balance Flexx	3	2
2 & 27	Realm Q (4 oz)	rimsulfuron + mesotrione	1.2 oz Resolve SG + 2.5 oz Mesotrione 50WG	4	3
4 & 27	Diflexx Duo (28 fl oz)	dicamba + tembotrione	8.82 fl oz Diflexx + 2.16 fl oz Laudis	5	5
5 & 15	Bicep Lite II Magnum (56 fl oz)	atrazine + S-metolachlor	37.4 fl oz Aatrex + 24.4 fl oz Dual II Magnum	1	1
5 & 15	Harness Xtra (64 fl oz)	atrazine + acetochlor	27.2 fl oz Aatrex + 39.3 fl oz Harness	1	1
2 & 4	Hornet WDG (4 oz)	flumetsulam + clopyralid	1.0 oz Python + 6.75 oz Stinger	5	5
14 & 15	Verdict (15 fl oz)*	saflufenacil + dimethenamid-P	3 fl oz Sharpen + 12.5 fl oz Outlook	1	1
9 & 15 & 27	Halex GT (64 fl oz)	glyphosate + S-metolachlor + mesotrione	29.7 fl oz Roundup PowerMax + 17.5 fl oz Dual II Magnum + 3.34 fl oz Callisto	1	1
4 & 15 & 27	Resicore (80 fl oz)	clopyralid + acetochlor + mesotrione	5.06 fl oz Stinger + 32.0 fl oz Harness + 6.0 fl oz Callisto	1	1
2 & 4 & 15	Surestart II (40 fl oz)	flumetsulam + clopyralid + acetochlor	0.75 oz Python + 3.87 fl oz Stinger + 21.4 fl oz Harness	1	1
5 & 15 & 27	Acuron (80 fl oz)	atrazine + S-metolachlor + mesotrione + bicyclopyrone	20 fl oz Aatrex + 22.4 fl oz Dual II Magnum + 4.8 fl oz Callisto + 0.80 oz bicyclopyrone	1	1

Rank: (1) ≥ 90% control (2) 80-89 % (3) 70-79% (4) 60-69% (5) < 60%

*Princep 4 FL and Verdict are labeled only for PRE-emergence applications in corn

Herbicides were tank mixed with Liberty (glufosinate, Group 10) at 32 fl oz ac⁻¹

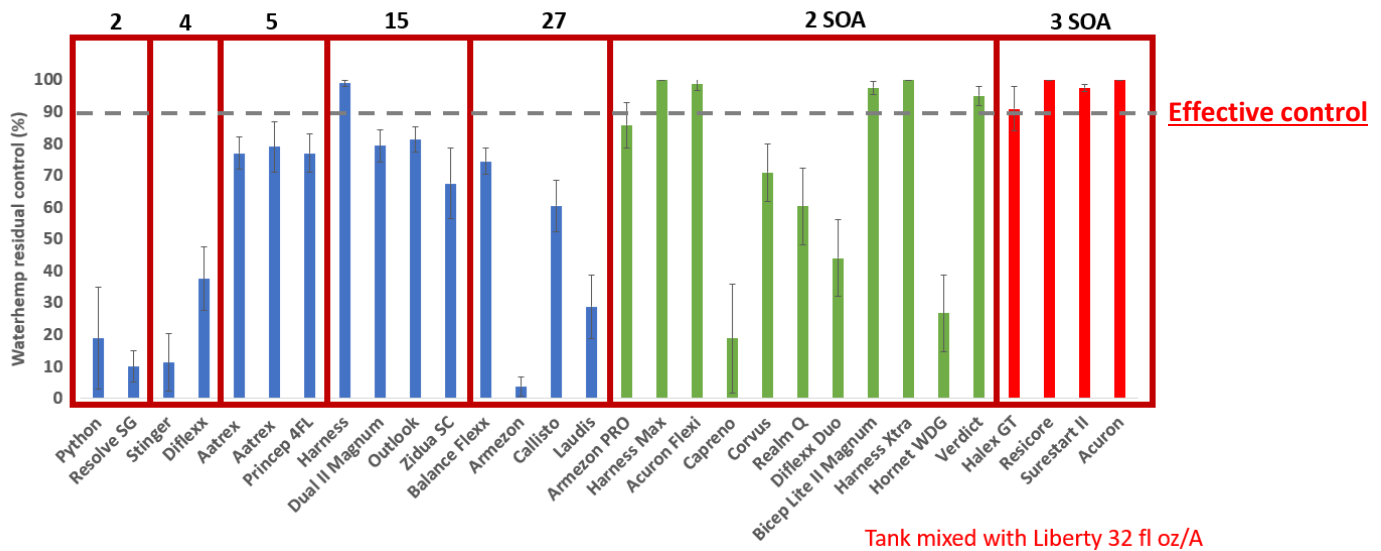
Objective: Evaluate the residual control of waterhemp with single and multiple SOA herbicide products commonly used in corn production systems in Wisconsin.



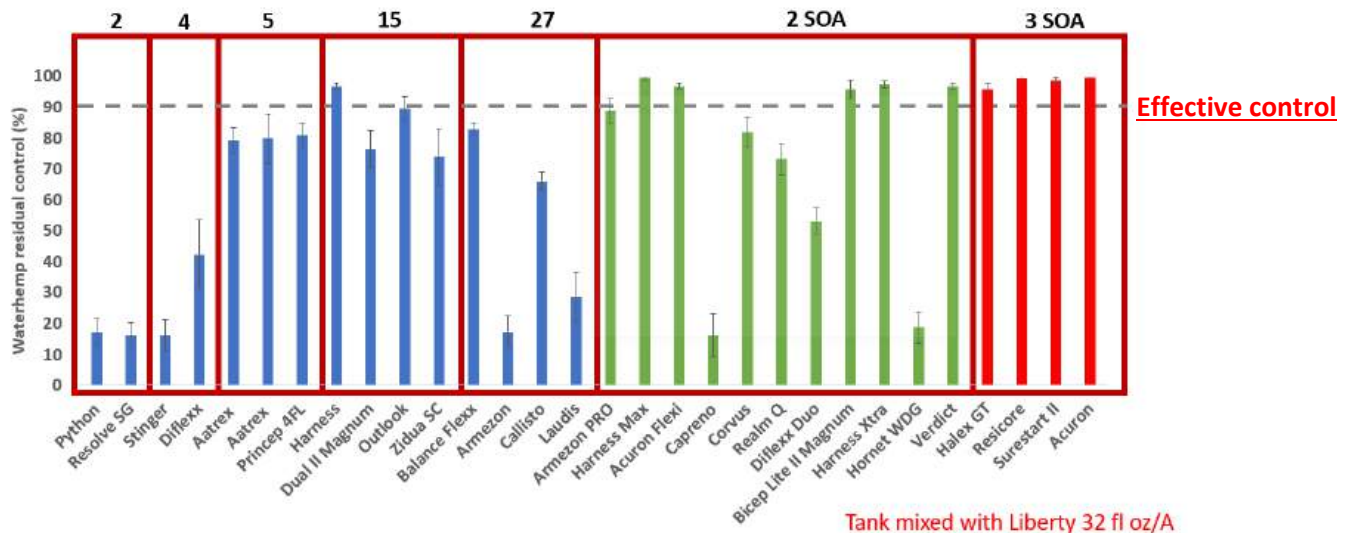
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WiscWeeds Herbicide Comparison for Residual Waterhemp Control in Corn

Waterhemp Residual Control 25 DAT (corn, V7 stage) Brooklyn, WI 2019



Waterhemp Residual Control 50 DAT (corn, VT stage) Brooklyn, WI 2019



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Preliminary Results – Not for publication

1 Year Data