

Reviton Burndown Programs in Soybean Arlington, WI 2021

Trial Information

Trial Sponsor(s): Helm Agro

Objective: Evaluate Reviton for control of weeds in a burndown management situation

Crop: Soybean

Variety: AG15XF1

Weed species (pressure): glyphosate-R marestail (high)
dandelion (moderate-high)
lambsquarters (moderate-high)
shepherd's purse (low)

Herbicide Application(s): Preplant burndown – 5/12

For the full report see trial #21-ARL-SB12 in the [2021 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON



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Trt # Herbicide (rate acre ⁻¹)	Marestail ^b (%)			Dandelion (%)			Lambsquarters (%)			Shepherd's Purse (%)		
	5 DAT	14 DAT	22 DAT	5 DAT	14 DAT	22 DAT	5 DAT	14 DAT	22 DAT	5 DAT	14 DAT	22 DAT
1 Untreated Check	0	0	0	0	0	0	0	0	0	0	0	0
One-Pass – Pre-plant Burndown (5/12)												
2 Reviton (2 oz) + Destiny HC 0.25% v/v	96	79	68	98	70	50	97	73	61	93	100	100
3 Reviton (1 oz) + Roundup PM (22 oz) + Destiny HC 0.25% v/v + AMS ^c	91	77	61	98	96	77	99	100	94	91	100	100
4 Sharpen (1.5 oz) + Roundup PM (22 oz) + Destiny HC 0.25% v/v + AMS ^c	99	95	90	98	99	89	98	99	96	97	100	100
5 Reviton (1 oz) + Zone Elite (30 oz) + Roundup PM (22 oz) + Destiny HC 0.25% v/v + AMS ^c	97	88	76	99	95	80	99	100	100	96	100	100
LSD (α=0.10)	3	3	6	ns	8	15	2	5	5	ns	ns	ns
p value	0.008	<0.001	<0.001	0.406	<0.001	0.006	0.086	<0.001	<0.001	0.142	1.000	1.000

^bMarestail population is glyphosate resistant.

^cSpray grade AMS applied at 8.5 lb/100 gal.

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Plot pictures taken on 5/17
5 days after the burndown application

The number in the upper right-hand corner is the average %
glyphosate-R marestail control of 4 replications

5 days after Burndown (5/17)

0%

Untreated Check









5 days after Burndown (5/17)

**Burndown: 1 fl oz Reviton + 30 fl oz Zone Elite + 22 fl oz Roundup PM +
0.25% Destiny HC + AMS**

97%



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Plot pictures taken on 5/26
14 days after the burndown application

The number in the upper right-hand corner is the average %
glyphosate-R marestail control of 4 replications



14 days after Burndown (5/26)

Burndown: 2 fl oz Reviton + 0.25% Destiny HC

79%



14 days after Burndown (5/26)

Burndown: 1 fl oz Reviton + 22 fl oz Roundup PM + 0.25% Destiny HC + AMS 77%



14 days after Burndown (5/26)

Burndown: 1.5 fl oz Sharpen+22 fl oz Roundup PM+0.25% Destiny HC+AMS

95%



14 days after Burndown (5/26)

**Burndown: 1 fl oz Reviton + 30 fl oz Zone Elite + 22 fl oz Roundup PM +
0.25% Destiny HC + AMS**

88%



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Plot pictures taken on 6/3
22 days after the burndown application

The number in the upper right-hand corner is the average %
glyphosate-R marestail control of 4 replications



22 days after Burndown (6/3)

Burndown: 2 fl oz Reviton + 0.25% Destiny HC

68%



22 days after Burndown (6/3)
Burndown: 1 fl oz Reviton + 22 fl oz Roundup PM + 0.25% Destiny HC + AMS **61%**





22 days after Burndown (6/3)

**Burndown: 1 fl oz Reviton + 30 fl oz Zone Elite + 22 fl oz Roundup PM +
0.25% Destiny HC + AMS**

76%

