

# 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 <sup>-1</sup> )	Marestail <sup>b</sup> (%)			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
<b>One-Pass – Pre-plant Burndown (5/12)</b>												
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 <sup>c</sup>	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 <sup>c</sup>	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 <sup>c</sup>	97	88	76	99	95	80	99	100	100	96	100	100
<b>LSD (<math>\alpha=0.10</math>)</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>ns</b>	<b>8</b>	<b>15</b>	<b>2</b>	<b>5</b>	<b>5</b>	<b>ns</b>	<b>ns</b>	<b>ns</b>
<b>p value</b>	<b>0.008</b>	<b>&lt;0.001</b>	<b>&lt;0.001</b>	<b>0.406</b>	<b>&lt;0.001</b>	<b>0.006</b>	<b>0.086</b>	<b>&lt;0.001</b>	<b>&lt;0.001</b>	<b>0.142</b>	<b>1.000</b>	<b>1.000</b>

<sup>b</sup>Marestail population is glyphosate resistant.

<sup>c</sup>Spray grade AMS applied at 8.5 lb/100 gal.

# Reviton Burndown Programs in Soybean Arlington, WI 2021

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)

Burndown: 2 fl oz Reviton + 0.25% Destiny HC

96%





5 days after Burndown (5/17)

Burndown: 1 fl oz Reviton + 22 fl oz Roundup PM + 0.25% Destiny HC + AMS 91%





5 days after Burndown (5/17)

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

99%





**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%**





# Reviton Burndown Programs in Soybean Arlington, WI 2021

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%**





# Reviton Burndown Programs in Soybean Arlington, WI 2021

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

90%





**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%**

