

Reviton herbicide for burndown control in no-till corn

Trial ID: NT01-21 Study Dir.:
 Conducted: PP Investigator:

Planting Date: Jun-4-2021 **Row Spacing:** 30 IN
Variety: P9880 AM **No. of Reps:** 4
Population: 31500 S/A **% OM:** 2.5
Soil Type: SL sandy loam **pH:** 6.1
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops:
Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	ERICA	horseweed	Erigeron canadensis
2	LAMAM	Henbit deadnettle	Lamium amplexicaule
3	STEME	chickweed	Stellaria media
4	CAPBP	Shepherd's purse	Capsella bursa-pastoris
Crop	Code	Common Name	
1	ZEAMX	Corn	

Application Description

Application Timing: A
Date Treated: PRE
Time Treated: May-17-2021
% Cloud Cover: 8:30 AM
Air Temp., Unit: 5
% Relative Humidity: 62.1 F
Wind Speed/Unit/Dir: 67.4
Soil Temp, Unit: 3.7 MPH NW
Leaf Moist/Dew Presence (Y/N): 55 F
Soil Moist: 5

Crop Stage at Each Application

Crop 1 Name: A
 ZEAMX
Height:
Stage:

Weed Stage at Each Application

Weed 1 Name: A
 ERICA
Height: 2 IN
Stage: 8 L
Weed 2 Name: LAMAM
Height: 2 IN
Stage: 6 L
Weed 3 Name: STEME
Height: 1 IN
Stage: Many L
Weed 4 Name: CAPBP
Height: 4 IN
Stage: 12 L

Application Equipment

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	BKPK	3 MPH	AIXR	11003	22.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	32 PSI

Comments:

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Pest Code			ERICA	LAMAM	STEME	CAPBP	ERICA	LAMAM	
Pest Name			horseweed	Henbit deadnettle	chickweed	Shepherd's purse	horseweed	Henbit deadnettle	
Crop Type, Code									
Crop Name									
Rating Date			May-20-2021	May-20-2021	May-20-2021	May-20-2021	May-24-2021	May-24-2021	
Rating Type			Control	Control	Control	Control	Control	Control	
Rating Unit/Min/Max			%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	
Trt-Eval Interval			3 DA-A	3 DA-A	3 DA-A	3 DA-A	7 DA-A	7 DA-A	
Trt No.	Treatment Name	Rate Unit	Appl Code						
1	Reviton	2.0 fl oz/a	A	71.3	100.0	50.0	87.5	72.5	100.0
1	Helm MSO Standard 1	0.25 % v/v	A						
2	Reviton	1.0 fl oz/a	A	88.8	100.0	91.3	88.8	90.0	100.0
2	Roundup PowerMax	22 fl oz/a	A						
2	AMS	8.5 lb/100 gal	A						
2	Helm MSO Standard 1	0.25 % v/v	A						
3	Sharpen	1.5 fl oz/a	A	90.0	100.0	92.5	87.5	91.3	100.0
3	Roundup PowerMax	22 fl oz/a	A						
3	AMS	8.5 lb/100 gal	A						
3	Helm MSO Standard 1	0.25 % v/v	A						
4	Reviton	1.0 fl oz/a	A	100.0	100.0	95.0	100.0	100.0	100.0
4	Roundup PowerMax	22 fl oz/a	A						
4	AMS	8.5 lb/100 gal	A						
4	Fearless Xtra 5.6L	1.8 qt/a	A						
4	Helm MSO Standard 1	0.25 % v/v	A						
5	Untreated			0.0	0.0	0.0	0.0	0.0	0.0
	LSD P=.05			5.22	.	2.44	2.98	4.87	.
	Standard Deviation			3.39	0.00	1.58	1.94	3.16	0.00
	CV			4.84	0.0	2.4	2.66	4.47	0.0

Could not calculate LSD (% mean diff) for columns 2,6,14,16,17,19,20,22 because error mean square = 0.
 ^Calculated from residual.

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Pest Code			STEME	CAPBP	ERICA	LAMAM	STEME	CAPBP	
Pest Name			chickweed	Shepherd's purse	horseweed	Henbit deadnettle	chickweed	Shepherd's purse	
Crop Type, Code									
Crop Name									
Rating Date			May-24-2021	May-24-2021	May-31-2021	May-31-2021	May-31-2021	May-31-2021	
Rating Type			Control	Control	Control	Control	Control	Control	
Rating Unit/Min/Max			%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	
Trt-Eval Interval			7 DA-A	7 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	
Trt No.	Treatment Name	Rate Unit	Appl Code						
1	Reviton	2.0 fl oz/a	A	55.0	88.8	73.8	100.0	61.3	91.3
1	Helm MSO Standard 1	0.25 % v/v	A						
2	Reviton	1.0 fl oz/a	A	91.3	88.8	88.8	90.0	100.0	92.5
2	Roundup PowerMax	22 fl oz/a	A						
2	AMS	8.5 lb/100 gal	A						
2	Helm MSO Standard 1	0.25 % v/v	A						
3	Sharpen	1.5 fl oz/a	A	93.8	90.0	88.8	92.5	100.0	93.8
3	Roundup PowerMax	22 fl oz/a	A						
3	AMS	8.5 lb/100 gal	A						
3	Helm MSO Standard 1	0.25 % v/v	A						
4	Reviton	1.0 fl oz/a	A	95.0	100.0	100.0	100.0	100.0	97.5
4	Roundup PowerMax	22 fl oz/a	A						
4	AMS	8.5 lb/100 gal	A						
4	Fearless Xtra 5.6L	1.8 qt/a	A						
4	Helm MSO Standard 1	0.25 % v/v	A						
5	Untreated			0.0	0.0	0.0	0.0	0.0	0.0
	LSD P=.05			5.02	2.54	2.90	3.14	1.72	3.37
	Standard Deviation			3.26	1.65	1.88	2.04	1.12	2.19
	CV			4.87	2.24	2.68	2.67	1.55	2.92

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Pest Code	ERICA	LAMAM	STEME	CAPBP		
Pest Name	horseweed	Henbit deadnettle	chickweed	Shepherd's purse		
Crop Type, Code					ZEAMX	ZEAMX
Crop Name					Corn	Corn
Rating Date	Jun-7-2021	Jun-7-2021	Jun-7-2021	Jun-7-2021	Jun-18-2021	Jun-18-2021
Rating Type	Control	Control	Control	Control	Injury	Stand Count
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	20 FT, -, -
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	32 DA-A	32 DA-A

Trt No.	Treatment Name	Rate	Unit	Appl Code						
1	Reviton	2.0 fl oz/a		A	71.3	100.0	53.8	100.0	0.0	45.8
1	Helm MSO Standard 1	0.25 % v/v		A						
2	Reviton	1.0 fl oz/a		A	81.3	100.0	100.0	100.0	0.0	44.3
2	Roundup PowerMax	22 fl oz/a		A						
2	AMS	8.5 lb/100 gal		A						
2	Helm MSO Standard 1	0.25 % v/v		A						
3	Sharpen	1.5 fl oz/a		A	99.5	100.0	100.0	100.0	0.0	46.3
3	Roundup PowerMax	22 fl oz/a		A						
3	AMS	8.5 lb/100 gal		A						
3	Helm MSO Standard 1	0.25 % v/v		A						
4	Reviton	1.0 fl oz/a		A	100.0	100.0	100.0	100.0	0.0	43.5
4	Roundup PowerMax	22 fl oz/a		A						
4	AMS	8.5 lb/100 gal		A						
4	Fearless Xtra 5.6L	1.8 qt/a		A						
4	Helm MSO Standard 1	0.25 % v/v		A						
5	Untreated				0.0	0.0	0.0	0.0	0.0	45.5
LSD P=.05					2.55	.	3.30	.	.	5.10
Standard Deviation					1.66	0.00	2.14	0.00	0.00	3.31
CV					2.35	0.0	3.03	0.0	0.0	7.35

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Pest Code				
Pest Name				
Crop Type, Code		ZEAMX	ZEAMX	ZEAMX
Crop Name		Corn	Corn	Corn
Rating Date		Jun-18-2021	Jun-25-2021	Jun-25-2021
Rating Type		Vigor	Injury	Stand Count
Rating Unit/Min/Max		1-9, 1, 9	%, 0, 100	20 FT, -, -
Trt-Eval Interval		32 DA-A	39 DA-A	39 DA-A

Trt No.	Treatment Name	Rate Unit	Appl Code				
1	Reviton	2.0 fl oz/a	A	5.0	0.0	46.0	5.0
1	Helm MSO Standard 1	0.25 % v/v	A				
2	Reviton	1.0 fl oz/a	A	5.0	0.0	45.8	5.0
2	Roundup PowerMax	22 fl oz/a	A				
2	AMS	8.5 lb/100 gal	A				
2	Helm MSO Standard 1	0.25 % v/v	A				
3	Sharpen	1.5 fl oz/a	A	5.0	0.0	46.5	5.0
3	Roundup PowerMax	22 fl oz/a	A				
3	AMS	8.5 lb/100 gal	A				
3	Helm MSO Standard 1	0.25 % v/v	A				
4	Reviton	1.0 fl oz/a	A	5.0	0.0	43.8	5.0
4	Roundup PowerMax	22 fl oz/a	A				
4	AMS	8.5 lb/100 gal	A				
4	Fearless Xtra 5.6L	1.8 qt/a	A				
4	Helm MSO Standard 1	0.25 % v/v	A				
5	Untreated			5.0	0.0	46.3	5.0
	LSD P=.05					4.02	
	Standard Deviation			0.00	0.00	2.61	0.00
	CV			0.0	0.0	5.72	0.0

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