

Ohio State University Horticulture and Crop Science

Improve efficacy of Kixor on chickweed and henbit when applied pre plant burndown

Trial ID: 09SoyBurn1 Protocol ID: 09SoyBurn1
Location: Western Branch Study Director: Bryan Reeb
Project ID: 09SoyBurn1 Investigator: Dr. Mark M. Loux
Sponsor Contact: CAREN JUDGE, BASF

General Trial Information

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Personnel

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Pest Description

Pest 1 Type: W **Code:** LAMPU Lamium purpureum
Common Name: Purple deadnettel

Pest 2 Type: W **Code:** CAPBP Capsella bursa-pastoris
Common Name: Shepherd's purse

Site and Design

Plot Width, Unit: 6.67 FT
Plot Length, Unit: 30 FT
Plot Area, Unit: 200.1 FT2
Replications: 3 **Study Design:** RACOBL Randomized Complete Block (RCB)

Application Description

Application Date: Apr-2-2009
Time of Day: 9:00 am
Application Method: SPRAY
Application Timing: 30 EPP
Application Placement: Broadcast
Air Temperature, Unit: 53 F
% Relative Humidity: 51
Wind Velocity, Unit: 11 MPH
Wind Direction: E
Soil Temperature, Unit: 41 F
Soil Moisture: DRY
% Cloud Cover: 20
Next Rain Occurred On: Apr-3-2009

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale:	LAMPU W	LAMPU W	LAMPU W	LAMPU W
Stage Majority, Percent:	19	90		
Diameter, Unit:	1	IN		
Height, Unit:	3	IN		
Height Minimum, Maximum:	2	3		
Pest 2 Code, Type, Scale:	CAPBP W	CAPBP W	CAPBP W	CAPBP W
Stage Majority, Percent:	19	90		
Diameter, Unit:	3	IN		
Height, Unit:	3	IN		
Height Minimum, Maximum:	2	3		

Application Equipment

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	A	B	C	D
Appl. Equipment:	Backpack			
Equipment Type:	SPRBAC			
Operating Pressure, Unit:	52 PSI			
Nozzle Type:	DG			
Nozzle Size:	8002			
Nozzle Spacing, Unit:	18 IN			
Boom Length, Unit:	6.67 FT			
Boom Height, Unit:	18 IN			
Ground Speed, Unit:	3 MPH			
Carrier:	WATER			
Spray Volume, Unit:	20 gal/ac			
Mix Size, Unit:	0.33 gallons			
Propellant:	COMCO2			

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Reps: 3 Plots: 6.67 by 30 feet

Spray vol: 20 gal/ac Mix size: 0.33 gallons (min .27562)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Appl Code	Amt to Measure	Product	Plot No. Rep. 1	2	3
1	UTC										101	211	305
2	Sharpen	2.85	SC	0.0223	lb ai/a	1	fl oz/a	A	0.4887	ml/mx	102	205	310
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a		10.69	ml/mx			
	MSO	100	L	1	% v/v	0.8	qt/a		12.49	ml/mx			
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45	ml/mx			
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a	D	10.69	ml/mx			
	NIS	100	SL	0.25	% v/v	0.2	qt/a		3.123	ml/mx			
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45	ml/mx			
3	OpTill	68	WG	0.085	lb ai/a	2	oz/a	A	0.9355	g/mx	103	204	311
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a		10.69	ml/mx			
	MSO	100	L	1	% v/v	0.8	qt/a		12.49	ml/mx			
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45	ml/mx			
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a	D	10.69	ml/mx			
	NIS	100	SL	0.25	% v/v	0.2	qt/a		3.123	ml/mx			
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45	ml/mx			
4	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a	A	10.69	ml/mx	104	208	304
	2,4-D Ester	4	SC	0.5	lb ai/a	16	fl oz/a		7.807	ml/mx			
	NIS	100	SL	0.25	% v/v	0.2	qt/a		3.123	ml/mx			
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45	ml/mx			
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a	D	10.69	ml/mx			
	NIS	100	SL	0.25	% v/v	0.2	qt/a		3.123	ml/mx			
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45	ml/mx			
5	Sharpen	2.85	SC	0.0223	lb ai/a	1	fl oz/a	B	0.4887	ml/mx	105	210	312
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a		10.69	ml/mx			
	MSO	100	L	1	% v/v	0.8	qt/a		12.49	ml/mx			
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45	ml/mx			
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a	D	10.69	ml/mx			
	NIS	100	SL	0.25	% v/v	0.2	qt/a		3.123	ml/mx			
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45	ml/mx			
6	OpTill	68	WG	0.085	lb ai/a	2	oz/a	B	0.9355	g/mx	106	201	303
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a		10.69	ml/mx			
	MSO	100	L	1	% v/v	0.8	qt/a		12.49	ml/mx			
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45	ml/mx			
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a	D	10.69	ml/mx			
	NIS	100	SL	0.25	% v/v	0.2	qt/a		3.123	ml/mx			
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45	ml/mx			
7	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a	B	10.69	ml/mx	107	203	306
	2,4-D Ester	4	SC	0.5	lb ai/a	16	fl oz/a		7.807	ml/mx			
	NIS	100	SL	0.25	% v/v	0.2	qt/a		3.123	ml/mx			
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45	ml/mx			
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a	D	10.69	ml/mx			
	NIS	100	SL	0.25	% v/v	0.2	qt/a		3.123	ml/mx			
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45	ml/mx			
8	Sharpen	2.85	SC	0.0223	lb ai/a	1	fl oz/a	C	0.4887	ml/mx	108	212	309
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a		10.69	ml/mx			
	MSO	100	L	1	% v/v	0.8	qt/a		12.49	ml/mx			
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45	ml/mx			
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a	D	10.69	ml/mx			

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Reps: 3		Plots: 6.67 by 30 feet		Spray vol: 20 gal/ac		Mix size: 0.33 gallons (min .27562)				Plot No.			
Trt	Treatment	Form	Form	Rate	Other	Other	Appl	Amt	Product	Rep.	1	2	3
No.	Name	Conc	Type	Rate	Unit	Rate	Unit	Code	to Measure				
	NIS	100	SL	0.25	% v/v	0.2	qt/a		3.123 ml/mx				
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45 ml/mx				
9	OpTill	68	WG	0.085	lb ai/a	2	oz/a	C	0.9355 g/mx	109	206	308	
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a		10.69 ml/mx				
	MSO	100	L	1	% v/v	0.8	qt/a		12.49 ml/mx				
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45 ml/mx				
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a	D	10.69 ml/mx				
	NIS	100	SL	0.25	% v/v	0.2	qt/a		3.123 ml/mx				
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45 ml/mx				
10	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a	C	10.69 ml/mx	110	207	302	
	2,4-D Ester	4	SC	0.5	lb ai/a	16	fl oz/a		7.807 ml/mx				
	NIS	100	SL	0.25	% v/v	0.2	qt/a		3.123 ml/mx				
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45 ml/mx				
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a	D	10.69 ml/mx				
	NIS	100	SL	0.25	% v/v	0.2	qt/a		3.123 ml/mx				
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45 ml/mx				
11	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a	C	10.69 ml/mx	111	202	307	
	NIS	100	SL	0.25	% v/v	0.2	qt/a		3.123 ml/mx				
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45 ml/mx				
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	fl oz/a	D	10.69 ml/mx				
	NIS	100	SL	0.25	% v/v	0.2	qt/a		3.123 ml/mx				
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45 ml/mx				
12	Valor XLT @ 3.5oz									112	209	301	
	Valor SX	51	WG	0.0653	lb ai/a	2.05	oz/a	A	0.9583 g/mx				
	Classic	25	DF	0.0227	lb ai/a	1.45	oz/a		0.6796 g/mx				
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	oz/a		10.69 ml/mx				
	2,4-D Ester	4	SC	0.5	lb ai/a	16	oz/a		7.807 ml/mx				
	N-PAK AMS	100	L	5	% v/v	4	qt/a		62.45 ml/mx				
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	oz/a	D	10.69 ml/mx				

Sort Order: Replicate 1