

2008 UNL BASF 800 Plateau Mixtures for Leafy Spurge applied Spring 2008

Trial ID: 08 BAS800Spurge Spring Protocol ID: 08 BAS 800 Spurge Spr
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

City: O'Neill
State/Prov.: NE
Postal Code: 68763
Country: USA

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory Country: USA
Organization: University of Nebraska Phone No: 402-584-2261
Address 1: 57905 866 RD Fax No: 402-584-3859
City: Concord
State/Prov: NE
Postal Code: 68728

Pest Description

Pest 1 Type: W Code: EPHES Euphorbia esula L.
Common Name: Spurge, leafy

Site and Design

Plot Width, Unit: 10 FT Site Type: PASTURE
Plot Length, Unit: 30 FT Tillage Type: NO-TILL
Replications: 3 Study Design: Factorial

Soil Description

Description Name: 07LeafySP O'Neill
% Sand: 80 % OM: 2.5 Texture: LOAMY SAND
% Silt: 14 pH: 5.7
% Clay: 6 CEC: 9.6 Fert. Level: FAIR
Analyzed By:
Midwest Labs

Application Description

A	
Application Date:	06-09-08
Time of Day:	1 pm
Application Method:	spray
Application Timing:	POST
Application Placement:	foliar
Air Temperature, Unit:	78 F
Wind Velocity, Unit:	3 mph
Wind Direction:	nw
% Cloud Cover:	20

Pest Stage At Each Application

A	
Pest 1 Code, Disc., Scale:	EPHES W
Height, Unit:	12 in

Application Equipment

	A
Appl. Equipment:	backpack
Operating Pressure, Unit:	20 psi
Nozzle Type:	Turbo Tee
Nozzle Size:	11003
Nozzle Spacing, Unit:	20 IN
Boom Length, Unit:	10 FT
Boom Height, Unit:	12 IN
Ground Speed, Unit:	2.7 MPH
Carrier:	WATER
Spray Volume, Unit:	20 GPA
Mix Size, Unit:	1.8 Liters
Propellant:	co2

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 Location: Concord, NE Study Director: Stevan Knezevic
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Description						Grass sp.	Leafy spurge	Leafy spurge	Leafy spurge	Leafy spurge
Rating Date						09-04-08	06-19-08	07-16-08	09-04-08	10-20-08
Rating Data Type						Injury	Control	Control	Control	Control
Rating Unit						Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.						87 87	10 10	37 37	87 87	133 133
Trt-Eval Interval						87 DA-A	10 DA-A	37 DA-A	87 DA-A	133 DA-A
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage				
1	BAS 80001H Plateau	0 oz/a		0 g a/ha		Spring	0.0 e	0.0 e	0.0 f	0.0 f
	Induce (NIS)	0.25 % v/v		0 g a/ha		Spring				
	AMS	17 lb/100 gal				Spring				
2	BAS 80001H Plateau	0 oz/a		0 g a/ha		Spring	0.0 e	35.0 c	36.7 e	36.7 e
	Induce (NIS)	3 oz/a		52.6 g a/ha		Spring				53.3 d
	AMS	0.25 % v/v				Spring				
	AMS	17 lb/100 gal				Spring				
3	BAS 80001H Plateau	0 oz/a		0 g a/ha		Spring	3.3 cde	36.7 c	36.7 e	36.7 e
	Induce (NIS)	6 oz/a		105 g a/ha		Spring				43.3 d
	AMS	0.25 % v/v				Spring				
	AMS	17 lb/100 gal				Spring				
4	BAS 80001H Plateau	0 oz/a		0 g a/ha		Spring	8.3 ab	30.0 d	30.0 e	30.0 e
	Induce (NIS)	9 oz/a		158 g a/ha		Spring				43.3 d
	AMS	0.25 % v/v				Spring				
	AMS	17 lb/100 gal				Spring				
5	BAS 80001H Plateau	0.255 oz/a		12.5 g a/ha		Spring	0.0 e	96.7 a	81.7 bc	63.3 cd
	Induce (NIS)	0 oz/a		0 g a/ha		Spring				43.3 d
	AMS	0.25 % v/v				Spring				
	AMS	17 lb/100 gal				Spring				
6	BAS 80001H Plateau	0.255 oz/a		12.5 g a/ha		Spring	0.0 e	98.3 a	88.3 abc	76.7 bc
	Induce (NIS)	3 oz/a		52.6 g a/ha		Spring				66.7 bcd
	AMS	0.25 % v/v				Spring				
	AMS	17 lb/100 gal				Spring				
7	BAS 80001H Plateau	0.255 oz/a		12.5 g a/ha		Spring	1.7 de	100.0 a	100.0 a	100.0 a
	Induce (NIS)	6 oz/a		105 g a/ha		Spring				96.7 a
	AMS	0.25 % v/v				Spring				
	AMS	17 lb/100 gal				Spring				
8	BAS 80001H Plateau	0.255 oz/a		12.5 g a/ha		Spring	5.0 bcd	100.0 a	100.0 a	100.0 a
	Induce (NIS)	9 oz/a		158 g a/ha		Spring				100.0 a
	AMS	0.25 % v/v				Spring				
	AMS	17 lb/100 gal				Spring				
9	BAS 80001H Plateau	0.51 oz/a		25 g a/ha		Spring	0.0 e	100.0 a	90.0 ab	73.3 cd
	Induce (NIS)	0 oz/a		0 g a/ha		Spring				63.3 cd
	AMS	0.25 % v/v				Spring				
	AMS	17 lb/100 gal				Spring				
10	BAS 80001H Plateau	0.51 oz/a		25 g a/ha		Spring	0.0 e	100.0 a	100.0 a	100.0 a
	Induce (NIS)	3 oz/a		52.6 g a/ha		Spring				100.0 a
	AMS	0.25 % v/v				Spring				
	AMS	17 lb/100 gal				Spring				
11	BAS 80001H Plateau	0.51 oz/a		25 g a/ha		Spring	0.0 e	100.0 a	100.0 a	100.0 a
	Induce (NIS)	6 oz/a		105 g a/ha		Spring				100.0 a
	AMS	0.25 % v/v				Spring				
	AMS	17 lb/100 gal				Spring				
12	BAS 80001H Plateau	0.51 oz/a		25 g a/ha		Spring	6.7 abc	100.0 a	96.7 a	96.7 a
	Induce (NIS)	9 oz/a		158 g a/ha		Spring				98.3 a
	AMS	0.25 % v/v				Spring				
	AMS	17 lb/100 gal				Spring				
13	BAS 80001H Plateau	1.02 oz/a		50 g a/ha		Spring	0.0 e	100.0 a	76.7 c	56.7 d
	Induce (NIS)	0 oz/a		0 g a/ha		Spring				46.7 d
	AMS	0.25 % v/v				Spring				
	AMS	17 lb/100 gal				Spring				
14	BAS 80001H Plateau	1.02 oz/a		50 g a/ha		Spring	0.0 e	100.0 a	100.0 a	96.7 a
	Induce (NIS)	3 oz/a		52.6 g a/ha		Spring				93.3 a
	AMS	0.25 % v/v				Spring				
	AMS	17 lb/100 gal				Spring				

Northeast Research & Extension Center

Description	Grass sp.	Leafy spurge	Leafy spurge	Leafy spurge	Leafy spurge					
Rating Date	09-04-08	06-19-08	07-16-08	09-04-08	10-20-08					
Rating Data Type	Injury	Control	Control	Control	Control					
Rating Unit	Percent	Percent	Percent	Percent	Percent					
Days After First/Last Applic.	87 87	10 10	37 37	87 87	133 133					
Trt-Eval Interval	87 DA-A	10 DA-A	37 DA-A	87 DA-A	133 DA-A					
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage					
15	BAS 80001H Plateau	1.02 oz/a	50 g a/ha	105 g a/ha	Spring	1.7 de	100.0 a	100.0 a	96.7 a	93.3 a
	Induce (NIS)	0.25 % v/v			Spring					
	AMS	17 lb/100 gal			Spring					
16	BAS 80001H Plateau	1.02 oz/a	50 g a/ha	158 g a/ha	Spring	10.0 a	100.0 a	100.0 a	100.0 a	100.0 a
	Induce (NIS)	0.25 % v/v			Spring					
	AMS	17 lb/100 gal			Spring					
17	BAS 80001H Plateau	2.04 oz/a	100 g a/ha	0 g a/ha	Spring	0.0 e	100.0 a	90.0 ab	76.7 bc	66.7 bcd
	Induce (NIS)	0.25 % v/v			Spring					
	AMS	17 lb/100 gal			Spring					
18	BAS 80001H Plateau	2.04 oz/a	100 g a/ha	52.6 g a/ha	Spring	0.0 e	100.0 a	96.7 a	93.3 ab	86.7 abc
	Induce (NIS)	0.25 % v/v			Spring					
	AMS	17 lb/100 gal			Spring					
19	BAS 80001H Plateau	2.04 oz/a	100 g a/ha	105 g a/ha	Spring	1.7 de	100.0 a	100.0 a	96.7 a	90.0 ab
	Induce (NIS)	0.25 % v/v			Spring					
	AMS	17 lb/100 gal			Spring					
20	BAS 80001H Plateau	2.04 oz/a	100 g a/ha	158 g a/ha	Spring	8.3 ab	100.0 a	100.0 a	100.0 a	100.0 a
	Induce (NIS)	0.25 % v/v			Spring					
	AMS	17 lb/100 gal			Spring					
21	Paramount MSO	0.5 lb a/a	0.67 lb/a		Spring	0.0 e	43.3 b	60.0 d	56.7 d	66.7 bcd
		1 % v/v			Spring					
LSD (P=.05)						4.64	4.93	12.42	17.84	26.11
Standard Deviation						2.81	2.99	7.53	10.81	15.82
CV						126.46	3.61	9.39	14.31	21.41
Grand Mean						2.22	82.86	80.16	75.56	73.89
Replicate F						0.050	3.333	0.007	0.829	2.542
Replicate Prob(F)						0.9511	0.0458	0.9930	0.4439	0.0914
Treatment F						4.256	339.187	46.324	22.293	9.228
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Additional Treatment Information

Rate Unit

OZ/A = Ounces Product per Acre (Metric=ML-G/HA)O

% V/V = Percent, Volume Product per Volume Mix Basis (Metric=same)Z

LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)]

LB A/A = Pounds Active Ingredient per Acre (Metric=KG A/HA)A

Other Rate Unit

G A/HA = Grams Active Ingredient per Hectare

LB/A = Pounds Dry Product per Acre