

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

Trial ID: 08 BAS 800 Spurge Fall Protocol ID: 08 BAS 800 Spurge Fall
Location: O'Neill, 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: 20 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

Table with 2 columns: Field Name, Value. Includes Application Date (10-02-08), Time of Day (3:00 pm), Application Method (spray), Application Timing (POST), Application Placement (foliar), Applied By (js), Air Temperature (80 F), % Relative Humidity (25), Wind Velocity (2 mph), Wind Direction (var), Dew Presence (n), Soil Temperature (60 F), Soil Moisture (dry), % Cloud Cover (0).

Pest Stage At Each Application

Table with 2 columns: Field Name, Value. Includes Pest 1 Code, Disc., Scale (EPHES W), Height (21 in), Height Minimum, Maximum (18 24).

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

Northeast Research & Extension Center

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Description						Leafy spurge	Leafy spurge
Rating Date						10-10-08	10-20-08
Rating Data Type						Control	Control
Rating Unit						Percent	Percent
Days After First/Last Applic.						8 8	18 18
Trt-Eval Interval						8 DA-A	18 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		Fall	0.0 e
	Induce (NIS)	0.25 % v/v		0 g a/ha		Fall	0.0 d
	AMS	17 lb/100 gal				Fall	
2	BAS 80001H Plateau	0 oz/a		0 g a/ha		Fall	20.0 d
	Induce (NIS)	2 oz/a		35 g a/ha		Fall	30.0 c
	AMS	0.25 % v/v				Fall	
	AMS	17 lb/100 gal				Fall	
3	BAS 80001H Plateau	0 oz/a		0 g a/ha		Fall	26.7 d
	Induce (NIS)	4 oz/a		70 g a/ha		Fall	30.0 c
	AMS	0.25 % v/v				Fall	
	AMS	17 lb/100 gal				Fall	
4	BAS 80001H Plateau	0 oz/a		0 g a/ha		Fall	43.3 c
	Induce (NIS)	6 oz/a		105 g a/ha		Fall	46.7 b
	AMS	0.25 % v/v				Fall	
	AMS	17 lb/100 gal				Fall	
5	BAS 80001H Plateau	0.255 oz/a		12.5 g a/ha		Fall	78.3 ab
	Induce (NIS)	0 oz/a		0 g a/ha		Fall	91.7 a
	AMS	0.25 % v/v				Fall	
	AMS	17 lb/100 gal				Fall	
6	BAS 80001H Plateau	0.255 oz/a		12.5 g a/ha		Fall	88.3 a
	Induce (NIS)	2 oz/a		35 g a/ha		Fall	98.3 a
	AMS	0.25 % v/v				Fall	
	AMS	17 lb/100 gal				Fall	
7	BAS 80001H Plateau	0.255 oz/a		12.5 g a/ha		Fall	87.5 a
	Induce (NIS)	4 oz/a		70 g a/ha		Fall	97.5 a
	AMS	0.25 % v/v				Fall	
	AMS	17 lb/100 gal				Fall	
8	BAS 80001H Plateau	0.255 oz/a		12.5 g a/ha		Fall	78.3 ab
	Induce (NIS)	6 oz/a		105 g a/ha		Fall	100.0 a
	AMS	0.25 % v/v				Fall	
	AMS	17 lb/100 gal				Fall	
9	BAS 80001H Plateau	0.51 oz/a		25 g a/ha		Fall	85.0 a
	Induce (NIS)	0 oz/a		0 g a/ha		Fall	100.0 a
	AMS	0.25 % v/v				Fall	
	AMS	17 lb/100 gal				Fall	
10	BAS 80001H Plateau	0.51 oz/a		25 g a/ha		Fall	78.3 ab
	Induce (NIS)	2 oz/a		35 g a/ha		Fall	100.0 a
	AMS	0.25 % v/v				Fall	
	AMS	17 lb/100 gal				Fall	
11	BAS 80001H Plateau	0.51 oz/a		25 g a/ha		Fall	90.0 a
	Induce (NIS)	4 oz/a		70 g a/ha		Fall	100.0 a
	AMS	0.25 % v/v				Fall	
	AMS	17 lb/100 gal				Fall	
12	BAS 80001H Plateau	0.51 oz/a		25 g a/ha		Fall	86.7 a
	Induce (NIS)	6 oz/a		105 g a/ha		Fall	100.0 a
	AMS	0.25 % v/v				Fall	
	AMS	17 lb/100 gal				Fall	
13	BAS 80001H Plateau	1.02 oz/a		50 g a/ha		Fall	83.3 a
	Induce (NIS)	0 oz/a		0 g a/ha		Fall	100.0 a
	AMS	0.25 % v/v				Fall	
	AMS	17 lb/100 gal				Fall	
14	BAS 80001H Plateau	1.02 oz/a		50 g a/ha		Fall	78.3 ab
	Induce (NIS)	2 oz/a		35 g a/ha		Fall	100.0 a
	AMS	0.25 % v/v				Fall	
	AMS	17 lb/100 gal				Fall	

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Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	
15	BAS 80001H	1.02	oz/a	50	g a/ha	Fall	76.7 ab
	Plateau	4	oz/a	70	g a/ha	Fall	100.0 a
	Induce (NIS)	0.25	% v/v			Fall	
	AMS	17	lb/100 gal			Fall	
16	BAS 80001H	1.02	oz/a	50	g a/ha	Fall	85.0 a
	Plateau	6	oz/a	105	g a/ha	Fall	100.0 a
	Induce (NIS)	0.25	% v/v			Fall	
	AMS	17	lb/100 gal			Fall	
17	BAS 80001H	2.04	oz/a	100	g a/ha	Fall	81.7 ab
	Plateau	0	oz/a	0	g a/ha	Fall	100.0 a
	Induce (NIS)	0.25	% v/v			Fall	
	AMS	17	lb/100 gal			Fall	
18	BAS 80001H	2.04	oz/a	100	g a/ha	Fall	83.3 a
	Plateau	2	oz/a	35	g a/ha	Fall	100.0 a
	Induce (NIS)	0.25	% v/v			Fall	
	AMS	17	lb/100 gal			Fall	
19	BAS 80001H	2.04	oz/a	100	g a/ha	Fall	85.0 a
	Plateau	4	oz/a	70	g a/ha	Fall	100.0 a
	Induce (NIS)	0.25	% v/v			Fall	
	AMS	17	lb/100 gal			Fall	
20	BAS 80001H	2.04	oz/a	100	g a/ha	Fall	85.0 a
	Plateau	6	oz/a	105	g a/ha	Fall	100.0 a
	Induce (NIS)	0.25	% v/v			Fall	
	AMS	17	lb/100 gal			Fall	
21	Paramount	0.5	lb a/a	0.67	lb/a	Fall	66.7 b
	MSO	1	% v/v			Fall	96.7 a
LSD (P=.05)						16.50	11.14
Standard Deviation						10.00	6.75
CV						14.12	7.92
Grand Mean						70.83	85.28
Replicate F						0.896	1.112
Replicate Prob(F)						0.4165	0.3391
Treatment F						19.529	59.831
Treatment Prob(F)						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.

<u>Additional Treatment Information</u>	
<u>Rate Unit</u>	
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	
<u>Other Rate Unit</u>	
G A/HA = Grams Active Ingredient per Hectare	
LB/A = Pounds Dry Product per Acre	