

Northeast Research & Extension Center

2007 BASF 800 Formulations for Leafy Spurge

Trial ID: 07BAS T93 Spurge	Protocol ID: 07 BAS T93 Spurge
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	Trial Status: ONE-YEAR/INTERIM
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  
Common Name: Leafy spurge

Site and Design

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

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:	05-31-07
Time of Day:	11 am
Application Method:	spray
Application Timing:	POST
Application Placement:	foliar
Air Temperature, Unit:	64 f
% Relative Humidity:	60
Wind Velocity, Unit:	5 mph
Wind Direction:	sw
Dew Presence (Y/N):	n
Soil Temperature, Unit:	62 f
Soil Moisture:	adequate
% Cloud Cover:	90

Pest Stage At Each Application

A	
Pest 1 Code, Disc., Scale:	EPHES W
Stage Majority, Percent:	flower 80
Stage Minimum, Percent:	bud 20
Height, Unit:	8 in
Density, Unit:	25 m2

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

Trt No Treatment Application Comment

2 BAS 80001H was not put in trt 2. BAS 80200H was put in by mistake.

Date By Deviations

05-31-07 js BAS 80200H was used in treatment 2 instead of BAS 80001H as requested. (See additional rate study for treatment)

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Description	Grass 06-19-07	Grass 09-13-07	Leafy Spurge 06-05-07	Leafy Spurge 06-19-07	Leafy Spurge 06-30-07	Leafy Spurge 08-06-07	Leafy Spurge 09-13-07	Leafy Spurge 10-13-07						
Rating Date														
Rating Data Type	Injury	Vigor	Control	Control	Control	Control	Control	Control						
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent						
Days After First/Last Applic.	19 19	105 105	5 5	19 19	30 30	67 67	105 105	135 135						
Trt-Eval Interval	19 DA-A	43 DA-A	5 DA-A	19 DA-A	30 DA-A	67 DA-A	105 DA-A	135 DA-A						
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Growth Unit	Stage								
1	Nontreated Check						0.0 c	96.7 ab	0.0 d	0.0 c	0.0 c	0.0 d	0.0 e	0.0 d
2	BAS 80200H Induce (NIS)	1.02 oz/a 0.25 % v/v	50 g a/ha		Spring Spring		0.0 c	100.0 a	85.0 b	99.0 a	100.0 a	70.0 b	53.3 c	50.0 bc
3	Plateau Induce (NIS)	3 oz/a 0.25 % v/v	52.6 g a/ha		Spring Spring		0.0 c	93.3 bc	30.0 c	25.0 b	30.0 b	30.0 c	30.0 d	30.0 c
4	BAS 80200H Induce (NIS)	2.09 oz/a 0.25 % v/v	102.5 g a/ha		Spring Spring		6.7 b	100.0 a	88.3 ab	99.0 a	100.0 a	100.0 a	73.3 b	68.3 ab
5	BAS 80200H Agridex (COC)	2.09 oz/a 1 % v/v	102.5 g a/ha		Spring Spring		16.7 a	91.7 c	90.0 ab	99.0 a	100.0 a	100.0 a	78.3 b	73.3 a
6	BAS 80200H Induce (NIS)	2.8 oz/a 0.25 % v/v	137 g a/ha		Spring Spring		18.3 a	100.0 a	91.7 a	99.0 a	100.0 a	100.0 a	93.3 a	88.3 a
LSD (P=.05)		5.42	4.60	5.99	0.00	0.00	7.43	7.73	20.67					
Standard Deviation		2.98	2.53	3.29	0.00	0.00	4.08	4.25	11.37					
CV		42.93	2.61	5.13	0.0	0.0	6.12	7.77	22.0					
Grand Mean		6.94	96.94	64.17	70.17	71.67	66.67	54.72	51.67					
Replicate F		0.625	2.826	3.462	0.000	0.000	1.000	1.000	0.806					
Replicate Prob(F)		0.5549	0.1064	0.0720	1.0000	1.0000	0.4019	0.4019	0.4735					
Treatment F		24.906	6.478	427.923	0.000	0.000	328.800	199.462	24.310					
Treatment Prob(F)		0.0001	0.0062	0.0001	1.0000	1.0000	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.

Description						Leafy Spurge
Rating Date						05-20-08
Rating Data Type						Control
Rating Unit						Percent
Days After First/Last Applic.						355 355
Trt-Eval Interval						355 DA-A
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage	
1	Nontreated Check					0.0 d
2	BAS 80200H	1.02 oz/a	50 g a/ha		Spring	53.3 b
	Induce (NIS)	0.25 % v/v			Spring	
3	Plateau	3 oz/a	52.6 g a/ha		Spring	30.0 c
	Induce (NIS)	0.25 % v/v			Spring	
4	BAS 80200H	2.09 oz/a	102.5 g a/ha		Spring	70.0 b
	Induce (NIS)	0.25 % v/v			Spring	
5	BAS 80200H	2.09 oz/a	102.5 g a/ha		Spring	73.3 b
	Agridex (COC)	1 % v/v			Spring	
6	BAS 80200H	2.8 oz/a	137 g a/ha		Spring	100.0 a
	Induce (NIS)	0.25 % v/v			Spring	
LSD (P=.05)						20.38
Standard Deviation						11.21
CV						20.58
Grand Mean						54.44
Replicate F						0.310
Replicate Prob(F)						0.7404
Treatment F						29.805
Treatment Prob(F)						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
<u>Other Rate Unit</u>
G A/HA = Grams Active Ingredient per Hectare