

2007 KJM44: Formulation Comparison - Leafy Spurge

Trial ID: 07DupontUSA07422Spurg	Protocol ID: 07DupontUSA07422Spurge
Location: O'Neill, NE	Study Director: Stevan Knezevic
	Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

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:	11am
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

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

Date	By	Notes
09-13-07	SK	Grasses included in rating were Sanhill bluegrass, small bluestem, indiagrass and granna grass

Northeast Research & Extension Center

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Description	Leafy Spurge	Leafy Spurge	Leafy Spurge	Leafy Spurge	Leafy Spurge	Grass vigor	Leafy Spurge
Rating Date	06-19-07	06-30-07	08-06-07	09-13-07	10-13-07	09-13-07	05-20-08
Rating Data Type	Control	Control	Control	Control	Control	Vigor	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.	19 19	30 30	67 67	105 105	135 135	105 105	355 355
Trt-Eval Interval	19 DA-A	30 DA-A	67 DA-A	105 DA-A	135 DA-A	105 DA-A	355 DA-A
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage		
1	DPX-KJM44 MSO	0.5 oz a/a 1 % v/v	35 g a/ha 1 % v/v		POST POST	71.3 bc	78.3 de
2	DPX-KJM44 MSO	1 oz a/a 1 % v/v	70 g a/ha 1 % v/v		POST POST	94.3 a	88.3 bcd
3	DPX-KJM44 MSO	2 oz a/a 1 % v/v	140 g a/ha 1 % v/v		POST POST	99.0 a	96.7 ab
4	DPX-KJM44 MSO	3 oz a/a 1 % v/v	210 g a/ha 1 % v/v		POST POST	99.0 a	100.0 a
5	DPX-KJM44-060 MSO	0.5 oz a/a 1 % v/v	35 g a/ha 1 % v/v		POST POST	70.0 bc	81.7 cde
6	DPX-KJM44-060 MSO	1 oz a/a 1 % v/v	70 g a/ha 1 % v/v		POST POST	84.7 ab	90.0 abc
7	DPX-KJM44-060 MSO	2 oz a/a 1 % v/v	140 g a/ha 1 % v/v		POST POST	99.0 a	98.3 ab
8	DPX-KJM44-060 MSO	3 oz a/a 1 % v/v	210 g a/ha 1 % v/v		POST POST	99.0 a	100.0 a
9	DPX-MAT28 MSO	0.5 oz a/a 1 % v/v	35 g a/ha 1 % v/v		POST POST	33.3 d	55.0 f
10	DPX-MAT28 MSO	1 oz a/a 1 % v/v	70 g a/ha 1 % v/v		POST POST	63.3 c	76.7 e
11	DPX-MAT28 MSO	2 oz a/a 1 % v/v	140 g a/ha 1 % v/v		POST POST	96.0 a	88.3 bcd
12	DPX-MAT28 MSO	3 oz a/a 1 % v/v	210 g a/ha 1 % v/v		POST POST	99.0 a	100.0 a
LSD (P=.05)		18.12	11.12			17.48	20.02
Standard Deviation		10.70	6.57			10.32	11.82
CV		12.74	7.48			11.95	13.93
Grand Mean		84.0	87.78			86.39	84.86
Replicate F		2.535	6.007			4.405	5.403
Replicate Prob(F)		0.1022	0.0083			0.0246	0.0123
Treatment F		11.260	12.451			8.998	7.705
Treatment Prob(F)		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/A = Ounces Active Ingredient per Acre (Metric=G A/HA)|B
 % V/V = Percent, Volume Product per Volume Mix Basis (Metric=same)|Z
Other Rate Unit
 G A/HA = Grams Active Ingredient per Hectare
 % V/V = Percent, Volume Product per Volume Mix Basis