

Northeast Research & Extension Center

2007 KJM44: Formulation Comparison - Leafy Spurge

Trial ID: 07Dupont USA 07 422 Protocol ID: 07 Dupont USA 07 422
 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
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

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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	135 DA-A				
Trt Treatment	Rate	Other Rate	Other Rate	Growth Stage							
No. Name	Unit	Unit	Unit								
13 Tordon 22K MSO	4 oz a/a 1 % v/v	16 oz/a 1 % v/v		POST POST	48.3 b	73.3 b	75.0 a 73.3 a	68.3 a	100.0 a	73.3 b	
14 Nontreated Check					0.0 c	0.0 d	0.0 c	0.0 c	100.0 a	0.0 d	
15 Grazon P and D	3 pt/a	3 pt/a		POST	85.0 a	95.0 a	81.7 a	80.0 a	78.3 a	100.0 a	70.0 b
16 Overdrive Tordon 22K MSO	4 oz/a 3 oz a/a 1 % v/v	4 oz/a 12 oz/a 1 % v/v		POST POST POST	86.7 a	83.3 ab	80.0 a	83.3 a	75.0 a	100.0 a	100.0 a
17 Plateau NIS	3 oz/a 0.25 % v/v	3 oz/a 0.25 % v/v		POST POST	28.3 b	33.3 c	36.7 b	36.7 b	38.3 b	100.0 a	30.0 c
18 Plateau NIS	6 oz/a 0.25 % v/v	6 oz/a 0.25 % v/v		POST POST	28.3 b	46.7 c	36.7 b	40.0 b	38.3 b	90.0 b	30.0 c
LSD (P=.05)					21.25	16.83	12.43	15.10	13.35	0.00	15.81
Standard Deviation					11.68	9.25	6.83	8.30	7.34	0.00	8.69
CV					25.33	16.73	13.22	15.89	14.76	0.0	17.19
Grand Mean					46.11	55.28	51.67	52.22	49.72	98.33	50.56
Replicate F					4.409	2.403	2.500	2.258	4.433	0.000	2.059
Replicate Prob(F)					0.0424	0.1406	0.1317	0.1551	0.0418	1.0000	0.1783
Treatment F					26.045	44.198	69.000	46.194	50.500	0.000	53.544
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001	1.0000	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
 PT/A = Pints Product per Acre (Metric=L/HA)|P
 OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O
Other Rate Unit
 OZ/A = Ounces Product per Acre
 % V/V = Percent, Volume Product per Volume Mix Basis
 PT/A = Pints Product per Acre