

2007 KJM44: Spotted Knapweed Control

Trial ID: 07Dupont USA 07 402	Protocol ID: 07 Dupont USA 07 402
Location: Page, 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: CENBB Centaurea biebersteinii
Common Name: Spotted knapweed

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

Application Description

A	
Application Date:	05-31-07
Time of Day:	10:00 am
Application Method:	spray
Application Timing:	POST
Application Placement:	foliar
Air Temperature, Unit:	67 f
% Relative Humidity:	62
Wind Velocity, Unit:	2 mph
Wind Direction:	sw
Dew Presence (Y/N):	n
Soil Temperature, Unit:	54 f
Soil Moisture:	adequate
% Cloud Cover:	20

Pest Stage At Each Application

A	
Pest 1 Code, Disc., Scale:	CENBB W
Stage Majority, Percent:	rosett
Height, Unit:	5 in
Height Minimum, Maximum:	4 6
Density, Unit:	5 m2

Application Equipment

A	
Appl. Equipment:	backpack
Operating Pressure, Unit:	22 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	Knapweed	Knapweed	Knapweed	Grass Vigor	Knapweed
Rating Date	06-30-07	08-06-07	09-13-07	09-13-07	05-20-08
Rating Data Type	Control	Control	Control	Vigor	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.	30 30	67 67	105 105	105 105	355 355
Trt-Eval Interval	30 DA-A	67 DA-A	105 DA-A	105 DA-A	105 DA-A
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Growth Stage
1	DPX-KJM44	0.5 oz a/a	0.625 oz/a		POST
	MSO	1 % v/v	1 % v/v		POST
2	DPX-KJM44	1 oz a/a	1.25 oz/a		POST
	MSO	1 % v/v	1 % v/v		POST
3	DPX-KJM44	1.5 oz a/a	1.88 oz/a		POST
	MSO	1 % v/v	1 % v/v		POST
4	DPX-KJM44	2 oz a/a	2.5 oz/a		POST
	MSO	1 % v/v	1 % v/v		POST
5	DPX-KJM44	2.5 oz a/a	3.13 oz/a		POST
	MSO	1 % v/v	1 % v/v		POST
6	DPX-KJM44	3 oz a/a	3.75 oz/a		POST
	MSO	1 % v/v	1 % v/v		POST
7	Aminopyralid	1 oz a/a	4 oz/a		POST
	MSO	1 % v/v	1 % v/v		POST
8	Aminopyralid	1.75 oz a/a	7 oz/a		POST
	MSO	1 % v/v	1 % v/v		POST
9	DPX-MAT28	0.5 oz a/a	2 oz/a		POST
	MSO	1 % v/v	1 % v/v		POST
10	DPX-MAT28	1 oz a/a	4 oz/a		POST
	MSO	1 % v/v	1 % v/v		POST
11	DPX-MAT28	2 oz a/a	8 oz/a		POST
	MSO	1 % v/v	1 % v/v		POST
12	Milestone	1.25 oz a/a	5 oz/a		POST
	MSO	1 % v/v	1 % v/v		POST
13	Nontreated Check				
LSD (P=.05)	4.61	6.58	6.95	5.15	5.48
Standard Deviation	2.74	3.90	4.12	3.06	3.25
CV	3.15	4.31	4.55	3.36	3.58
Grand Mean	87.03	90.49	90.64	91.03	90.77
Replicate F	2.056	0.608	0.264	0.480	2.182
Replicate Prob(F)	0.1499	0.5527	0.7701	0.6246	0.1347
Treatment F	299.148	149.870	134.132	36.331	216.879
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/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
 OZ/A = Ounces Product per Acre
 % V/V = Percent, Volume Product per Volume Mix Basis