

Northeast Research & Extension Center

2007 KJM44: Broadleaf Weed Control - Canada Thistle

Trial ID: 07Dupont USA 07 419 Protocol ID: 07 Dupont USA 07 419
 Location: Niobrara, 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: CIRAR Cirsium arvense
Common Name: Canada thistle

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:	05-19-07
Time of Day:	11:30 am
Application Method:	spray
Application Timing:	POST
Application Placement:	foliar
Air Temperature, Unit:	74 f
% Relative Humidity:	60
Wind Velocity, Unit:	2 mph
Wind Direction:	s
Dew Presence (Y/N):	n
Soil Temperature, Unit:	65 f
Soil Moisture:	dry
% Cloud Cover:	60

Pest Stage At Each Application

A	
Pest 1 Code, Disc., Scale:	CIRAR W
Stage Majority, Percent:	5 inch 50
Stage Minimum, Percent:	2 inch 20
Stage Maximum, Percent:	Bolt 30
Height, Unit:	3.5 in
Height Minimum, Maximum:	2 5
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

Date	By	Notes
07-23-07	sk	Shortly after the July 18 rating the plot was mowed by cooperators
08-12-07	sk	On Aug 14, 2007 much growth of wild mustard

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Description	Canada Thistle	Canada Thistle	Canada Thistle	Canada Thistle	Canada Thistle	Canada Thistle
Rating Date	06-04-07	06-30-07	07-18-07	08-12-07	11-10-07	05-31-08
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.	16 16	42 42	60 60	85 85	175 175	378 378
Trt-Eval Interval	16 DA-A	42 DA-A	60 DA-A	85 DA-A	175 DA-A	378 DA-A
Trt Treatment						
No. Name	Rate	Other Rate	Other Rate	Growth Stage		
1 DPX-KJM44-060	0.5 oz a/a	0.625 oz/a		POST		
MSO	1 % v/v			POST		
2 DPX-KJM44-060	1 oz a/a	1.25 oz/a		POST		
MSO	1 % v/v			POST		
3 DPX-KJM44-060	2 oz a/a	2.5 oz/a		POST		
MSO	1 % v/v			POST		
4 DPX-KJM44-060	2.5 oz a/a	3.13 oz/a		POST		
MSO	1 % v/v			POST		
5 DPX-KJM44-060	3 oz a/a	3.75 oz/a		POST		
MSO	1 % v/v			POST		
6 DPX-KJM44-060	4 oz a/a	5 oz/a		POST		
MSO	1 % v/v			POST		
7 Aminopyralid	1.25 oz a/a	5 oz/a		POST		
MSO	1 % v/v			POST		
8 Aminopyralid	1.75 oz a/a	7 oz/a		POST		
MSO	1 % v/v			POST		
9 Telar XP	0.75 oz a/a	1 oz/a		POST		
MSO	1 % v/v			POST		
10 Milestone	0.75 oz a/a	3 oz/a		POST		
MSO	1 % v/v			POST		
11 Nontreated Check						
LSD (P=.05)	20.96	7.38	12.69	12.12	20.18	22.13
Standard Deviation	12.31	4.33	7.45	7.11	11.85	12.99
CV	18.15	5.44	8.88	9.06	26.42	23.37
Grand Mean	67.82	79.67	83.94	78.48	44.85	55.61
Replicate F	0.638	0.147	0.505	9.760	3.179	0.166
Replicate Prob(F)	0.5388	0.8642	0.6111	0.0011	0.0633	0.8482
Treatment F	16.244	141.418	46.679	47.769	5.752	10.336
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0005	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