

2008 KJM44: Selective Weed Control Roadsides - Canada Thistle

Trial ID: 08 DUP USA-08-427                      Protocol ID: 08 DUP USA-08-427  
 Location: Near 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 (L.) Scop.  
Common Name: Thistle, canada

Site and Design

Plot Width, Unit: 10    FT                      Site Type: PASTURE  
 Plot Length, Unit: 30    FT                      Tillage Type: CONVENTIONAL-TILL  
 Replications: 3                                      Study Design: Randomized Complete Block

Application Description

A	
Application Date:	05-31-08
Time of Day:	10:00 am
Application Method:	spray
Application Timing:	POST
Application Placement:	foliar
Applied By:	RR
Air Temperature, Unit:	79    F
% Relative Humidity:	83
Wind Velocity, Unit:	2    mph
Wind Direction:	N
Dew Presence (Y/N):	n
Soil Temperature, Unit:	65    F
Soil Moisture:	Good
% Cloud Cover:	10
Next Rain Occurred On:	06-01-08

Pest Stage At Each Application

A	
Pest 1 Code, Disc., Scale:	CIRAR W
Stage Majority, Percent:	6"    70
Stage Minimum, Percent:	4"    20
Stage Maximum, Percent:	8"    10
Height, Unit:	6    in
Height Minimum, Maximum:	4    8

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					Canada Thistle	Canada Thistle	Canada Thistle	Musk Thistle	Musk Thistle	Musk Thistle	
Rating Date					06-20-08	07-25-08	09-04-08	06-20-08	07-25-08	09-04-08	
Rating Data Type					Control	Control	Control	Control	Control	Control	
Rating Unit					Percent	Percent	Percent	Percent	Percent	Percent	
Days After First/Last Applic.					20 20	55 55	96 96	20 20	55 55	96 96	
Trt-Eval Interval					20 DA-A	55 DA-A	96 DA-A	20 DA-A	55 DA-A	96 DA-A	
Trt No.	Treatment Name	Rate	Other Rate	Other Unit	Growth Stage						
1	DPX-KJM44 MSO Ammonium Sulfate	0.625 oz/a 1 % v/v 17 lb/100 gal	0.5	oz a/a	POST POST POST	80.0 d	100.0 a	100.0 a	75.0 bc	100.0 a	100.0 a
2	DPX-KJM44 MSO Ammonium Sulfate	1.25 oz/a 1 % v/v 17 lb/100 gal	1	oz a/a	POST POST POST	91.7 a-d	100.0 a	100.0 a	81.7 bc	100.0 a	100.0 a
3	DPX-KJM44 MSO Ammonium Sulfate	1.88 oz/a 1 % v/v 17 lb/100 gal	1.5	oz a/a	POST POST POST	95.0 abc	100.0 a	100.0 a	86.7 abc	100.0 a	100.0 a
4	DPX-KJM44 MSO Ammonium Sulfate	2.5 oz/a 1 % v/v 17 lb/100 gal	2	oz a/a	POST POST POST	93.3 a-d	100.0 a	100.0 a	86.7 abc	100.0 a	100.0 a
5	DPX-KJM44 TELAR XP MSO Ammonium Sulfate	0.625 oz/a 0.25 oz/a 1 % v/v 17 lb/100 gal	0.5 0.188	oz a/a oz a/a	POST POST POST POST	90.0 a-d	100.0 a	100.0 a	76.7 bc	100.0 a	100.0 a
6	DPX-KJM44 TELAR XP MSO Ammonium Sulfate	1.25 oz/a 0.5 oz/a 1 % v/v 17 lb/100 gal	1	oz a/a 0.375 oz a/a	POST POST POST POST	86.7 a-d	100.0 a	100.0 a	80.0 bc	100.0 a	100.0 a
7	DPX-KJM44 TELAR XP MSO Ammonium Sulfate	1.88 oz/a 0.75 oz/a 1 % v/v 17 lb/100 gal	1.5	oz a/a 0.563 oz a/a	POST POST POST POST	93.3 a-d	100.0 a	100.0 a	76.7 bc	100.0 a	100.0 a
8	DPX-KJM44 TELAR XP MSO Ammonium Sulfate	2.5 oz/a 1 oz/a 1 % v/v 17 lb/100 gal	2	oz a/a 0.75 oz a/a	POST POST POST POST	85.0 bcd	100.0 a	100.0 a	75.0 bc	100.0 a	100.0 a
9	Aminopyralid MSO Ammonium Sulfate	3 oz/a 1 % v/v 17 lb/100 gal	0.75	oz a/a	POST POST POST	96.7 abc	100.0 a	100.0 a	90.0 ab	100.0 a	100.0 a
10	Aminopyralid MSO Ammonium Sulfate	7 oz/a 1 % v/v 17 lb/100 gal	1.75	oz a/a	POST POST POST	100.0 a	100.0 a	100.0 a	88.3 abc	100.0 a	100.0 a
11	DPX-MAT28 MSO Ammonium Sulfate	1 oz/a 1 % v/v 17 lb/100 gal	0.5	oz a/a	POST POST POST	86.7 a-d	100.0 a	100.0 a	80.0 bc	100.0 a	100.0 a
12	DPX-MAT28 MSO Ammonium Sulfate	2 oz/a 1 % v/v 17 lb/100 gal	1	oz a/a	POST POST POST	91.7 a-d	100.0 a	100.0 a	76.7 bc	100.0 a	100.0 a
13	DPX-MAT28 MSO Ammonium Sulfate	3 oz/a 1 % v/v 17 lb/100 gal	1.5	oz a/a	POST POST POST	98.3 ab	100.0 a	100.0 a	85.0 abc	100.0 a	100.0 a
14	Grazon P+D Ammonium Sulfate	6 pt/a 17 lb/100 gal			POST POST	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
15	DPX-MAT28 MSO Ammonium Sulfate	2 oz/a 1 % v/v 17 lb/100 gal	0.5	oz a/a	POST POST POST	90.0 a-d	93.3 b	100.0 a	80.0 bc	93.3 b	100.0 a
16	DPX-MAT28 MSO Ammonium Sulfate	4 oz/a 1 % v/v 17 lb/100 gal	1	oz a/a	POST POST POST	83.3 cd	96.7 ab	100.0 a	73.3 c	96.7 ab	100.0 a
17	DPX-MAT28 MSO Ammonium Sulfate	6 oz/a 1 % v/v 17 lb/100 gal	1.5	oz a/a	POST POST POST	96.7 abc	96.7 ab	100.0 a	90.0 ab	96.7 ab	100.0 a

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Trt-Eval Interval	20 DA-A	55 DA-A	96 DA-A	20 DA-A	55 DA-A	96 DA-A
Trt No.						
Treatment Name						
Rate						
Other Rate						
Other Rate						
Growth Unit						
Growth Stage						
18 Nontreated Check	0.0 e	0.0 c	0.0 b	0.0 d	0.0 c	0.0 b
LSD (P=.05)	14.88	4.07	0.00	16.00	4.07	0.00
Standard Deviation	8.92	2.44	0.00	9.59	2.44	0.00
CV	10.31	2.6	0.0	12.32	2.6	0.0
Grand Mean	86.57	93.7	94.44	77.87	93.7	94.44
Replicate F	2.763	0.311	0.000	2.962	0.311	0.000
Replicate Prob(F)	0.0777	0.7346	1.0000	0.0656	0.7346	1.0000
Treatment F	18.825	277.478	0.000	13.864	277.478	0.000
Treatment Prob(F)	0.0001	0.0001	1.0000	0.0001	0.0001	1.0000

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>Treatment Name</u>	Ammonium Sulfate =
<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
	LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)]
	PT/A = Pints Product per Acre (Metric=L/HA)P
<u>Other Rate Unit</u>	OZ A/A = Ounces Active Ingredient per Acre