

2007 "Aquatic herbicide" treatments for Reed Canarygrass applied in Spring

Trial ID: 07ReedCanarygrass SPRI Protocol ID: 07 Reed Canarygrass
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: PHAAP Phalaris arundinacea
Common Name: Reed Canary Grass

Site and Design

Plot Width, Unit: 10 FT Site Type: wetland
Plot Length, Unit: 30 FT Tillage Type: NO-TILL
Replications: 3 Study Design: Randomized Complete Block

Application Description

A	
Application Date:	06-04-07
Time of Day:	12:30 pm
Application Method:	spray
Application Timing:	POST
Application Placement:	foliar
Applied By:	sk
Air Temperature, Unit:	75 f
% Relative Humidity:	68
Wind Velocity, Unit:	3 mph
Wind Direction:	nw
Dew Presence (Y/N):	n
Soil Temperature, Unit:	66 f
Soil Moisture:	dry
% Cloud Cover:	30

Pest Stage At Each Application

A	
Pest 1 Code, Disc., Scale:	PHAAP W
Stage Majority, Percent:	flower 50
Height, Unit:	36 in
Height Minimum, Maximum:	24 48

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

Northeast Research & Extension Center

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Description	Reed Canary	Reed Canary	Reed Canary	Reed Canary	Reed Canary	Reed Canary				
Rating Date	06-30-07	08-12-07	05-07-08	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.	26 26	69 69	338 338	382 382	417 417	458 458				
Trt-Eval Interval	26 DA-A	69 DA-A	338 DA-A	382 DA-A	417 DA-A	458 DA-A				
Trt No.	Treatment Name	Rate	Unit	Growth Stage						
1	Rodeo	1	qt/a	Flower	56.7 b	66.7 b	43.3 d	36.7 d	26.7 c	26.7 c
	Ammonium Sulfate	17	lb/100 gal	Flower						
	NIS	0.25	% v/v	Flower						
2	Rodeo	2	qt/a	Flower	80.0 a	86.7 a	53.3 cd	46.7 cd	36.7 c	36.7 bc
	Ammonium Sulfate	17	lb/100 gal	Flower						
	NIS	0.25	% v/v	Flower						
3	Rodeo	3	qt/a	Flower	88.3 a	92.7 a	60.0 bc	56.7 bc	40.0 bc	40.0 bc
	Ammonium Sulfate	17	lb/100 gal	Flower						
	NIS	0.25	% v/v	Flower						
4	Habitat (imazapyr)	1	pt/a	Flower	33.3 c	88.7 a	53.3 cd	53.3 bc	36.7 c	36.7 bc
	Ammonium Sulfate	17	lb/100 gal	Flower						
	MSO	1	% v/v	Flower						
5	Habitat (imazapyr)	2	pt/a	Flower	33.3 c	97.7 a	71.7 ab	68.3 ab	56.7 ab	50.0 ab
	Ammonium Sulfate	17	lb/100 gal	Flower						
	MSO	1	% v/v	Flower						
6	Habitat (imazapyr)	3	pt/a	Flower	46.7 bc	96.0 a	83.3 a	80.0 a	66.7 a	60.0 a
	Ammonium Sulfate	17	lb/100 gal	Flower						
	MSO	1	% v/v	Flower						
7	Rodeo	1	qt/a	Flower	76.7 a	98.3 a	63.3 bc	58.3 bc	43.3 bc	43.3 b
	Habitat (imazapyr)	1	pt/a	Flower						
	Ammonium Sulfate	17	lb/100 gal	Flower						
	NIS	0.25	% v/v	Flower						
LSD (P=.05)		14.00			18.12	13.98		16.24	18.75	15.77
Standard Deviation		7.87			10.19	7.86		9.13	10.54	8.86
CV		13.27			11.38	12.84		15.98	24.06	21.15
Grand Mean		59.29			89.52	61.19		57.14	43.81	41.9
Replicate F		0.058			0.042	5.344		4.800	7.500	10.970
Replicate Prob(F)		0.9442			0.9592	0.0219		0.0294	0.0077	0.0020
Treatment F		24.942			3.503	8.495		7.157	4.943	4.364
Treatment Prob(F)		0.0001			0.0307	0.0009		0.0020	0.0091	0.0144

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
Treatment Name
 Ammonium Sulfate = |
Rate Unit
 QT/A = Quarts Product per Acre (Metric=L/HA)Q
 LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)]
 % V/V = Percent, Volume Product per Volume Mix Basis (Metric=same)Z
 PT/A = Pints Product per Acre (Metric=L/HA)P