

Wheat Stubble Marestalk Treatments

Trial ID: 14WheatStub2 Location: Trial Year: 2014
Protocol ID: 14WheatStub Investigator: Dr. Mark M. Loux
Project ID: Study Director:
Sponsor Contact:

General Trial Information

Investigator: Dr. Mark M. Loux

Conducted Under GLP: No
Conducted Under GEP: No

Investigator: Dr. Mark M. Loux

Pest Description

Pest 1 Type: W Code: ERICA Conyza canadensis
Common Name: Canada horseweed

Site and Design

Treated Plot Width: 10 FT Site Type: FIELD field
Treated Plot Length: 30 FT Site Type: FIELD field
Treated Plot Area: 300 FT2 Treatments: 20 Experimental Unit: 1 PLOT plot
Replications: 4 Tillage Type: NOTILL no-till
Study Design: RACOB L Randomized Complete Block (RCB)

No. Previous Crop Year
1. Wheat 2014

Application Description

Application Date: 8-7-2014
Appl. Start Time: 9:00 AM
Appl. Stop Time: 10:00 AM
Application Method: SPRAY
Application Timing: 12" ERICA
Application Placement: BROFOL
Air Temperature, Unit: 65 F
% Relative Humidity: 91
Wind Velocity, Unit: 1.5 MPH
Wind Direction: N
Dew Presence (Y/N): N no
Soil Temperature, Unit: 62 F
Soil Moisture: DRY
% Cloud Cover: 15

Pest Stage At Each Application

Pest 1 Code, Type, Scale: ERICA W
Stage Majority, Percent: 19 100
Diameter, Unit: 3 IN
Height, Unit: 14 IN
Height Minimum, Maximum: 12 20
Density, Unit: 10 M2

Application Equipment

Appl. Equipment: 10' AI XR
Equipment Type: SPRBAC
Operation Pressure, Unit: 46 PSI
Nozzle Type: AI XR
Nozzle Size: 110015
Nozzle Spacing, Unit: 18 IN
Boom Length, Unit: 10 FT
Boom Height, Unit: 20 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 15 GPA
Mix Size, Unit: 2 Liters
Propellant: CO2

## Wheat Stubble Marestalk Treatments

Trial ID: 14WheatStub2      Location:      Trial Year: 2014  
 Protocol ID: 14WheatStub      Investigator: Dr. Mark M. Loux  
 Project ID:      Study Director:  
    Sponsor Contact:

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Description	1	2	3
	Pest Type					W Weed	W Weed	W Weed
	Pest Code					ERICA	ERICA	ERICA
	Pest Scientific Name					<i>Conyza canadensis</i>	<i>Conyza canadensis</i>	<i>Conyza canadensis</i>
	Pest Name					Canada horseweed	Canada horseweed	Canada horseweed
	Rating Date					8-21-2014	9-4-2014	9-4-2014
	Rating Type					CONTRO	CONTRO	with seed
	Rating Unit					%	%	%
	Number of Subsamples					1	1	1
	Days After First/Last Applic.					14 14	28 28	28 28
	Trt-Eval Interval					14 DA-A	28 DA-A	28 DA-A
	ARM Action Codes					AA		
	Number of Decimals					0	0	0
1	Roundup Powermax	21.3 oz/a		A		53 c	70 b	43 a
	1 2,4-D Ester	32 oz/a		A				
	1 N-Pak	96 oz/a		A				
2	Roundup Powermax	21.3 oz/a		A		69 c	74 b	38 a
	2 Clarity	16 oz/a		A				
	2 N-Pak	96 oz/a		A				
3	Roundup Powermax	21.3 oz/a		A		99 ab	100 a	0 a
	3 Sharpen	1 oz/a		A				
	3 MSO	19.2 oz/a		A				
	3 N-Pak	96 oz/a		A				
4	Roundup Powermax	21.3 oz/a		A		100 a	100 a	0 a
	4 Sharpen	2 oz/a		A				
	4 MSO	19.2 oz/a		A				
	4 N-Pak	96 oz/a		A				
5	Roundup Powermax	21.3 oz/a		A		99 ab	100 a	0 a
	5 Sharpen	1 oz/a		A				
	5 2,4-D Ester	16 oz/a		A				
	5 N-Pak	96 oz/a		A				
6	Roundup Powermax	21.3 oz/a		A		99 ab	98 a	13 a
	6 Sharpen	1 oz/a		A				
	6 Sencor 75DF	8 oz/a		A				
	6 MSO	19.2 oz/a		A				
	6 N-Pak	96 oz/a		A				
7	Roundup Powermax	21.3 oz/a		A		100 a	100 a	0 a
	7 Sharpen	1 oz/a		A				
	7 Sencor 75DF	8 oz/a		A				
	7 2,4-D Ester	16 oz/a		A				
	7 MSO	19.2 oz/a		A				
	7 N-Pak	96 oz/a		A				
8	Clarity	16 oz/a		A		60 c	78 b	3 a
	8 2,4-D Ester	16 oz/a		A				
9	Liberty	36 oz/a		A		100 a	100 a	0 a
	9 N-Pak	96 oz/a		A				

Means followed by same letter do not significantly differ (P=.05, LSD)

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Pest Type				W Weed	W Weed	W Weed
Pest Code				ERICA	ERICA	ERICA
Pest Scientific Name				Conyza canadens	Conyza canadens	Conyza canadens
Pest Name				Canada horsewee	Canada horsewee	Canada horsewee
Rating Date				8-21-2014	9-4-2014	9-4-2014
Rating Type				CONTRO	CONTRO	with seed
Rating Unit				%	%	%
Number of Subsamples				1	1	1
Days After First/Last Applic.				14 14	28 28	28 28
Trt-Eval Interval				14 DA-A	28 DA-A	28 DA-A
ARM Action Codes				AA		
Number of Decimals				0	0	0
Trt Treatment	Other	Other	Appl	Appl		
No. Name	Rate	Rate	Unit	Code	Description	
						1 2 3
10 Liberty	36 oz/a		A			100 a 100 a 0 a
10 Sencor 75DF	8 oz/a		A			
10 N-Pak	96 oz/a		A			
11 Liberty	36 oz/a		A			100 a 100 a 0 a
11 Sencor 75DF	8 oz/a		A			
11 2,4-D Ester	16 oz/a		A			
12 Liberty	36 oz/a		A			100 a 100 a 0 a
12 Sharpen	1 oz/a		A			
12 MSO	19.2 oz/a		A			
12 N-Pak	96 oz/a		A			
13 Gramoxone Inteon	3 pt/a		A			99 ab 100 a 25 a
13 Sencor 75DF	8 oz/a		A			
13 COC	19.2 oz/a		A			
14 Gramoxone Inteon	3 pt/a		A			96 b 98 a 13 a
14 Sencor 75DF	8 oz/a		A			
14 COC	19.2 oz/a		A			
14 2,4-D Ester	16 oz/a		A			
15 Roundup Powermax	21.3 oz/a		A		50/50 Water/28% Carrier	99 ab 99 a 0 a
15 Sharpen	1 oz/a		A			
15 MSO	19.2 oz/a		A			
16 Roundup Powermax	21.3 oz/a		A		50/50 Water/28% Carrier	100 a 100 a 0 a
16 Sharpen	1 oz/a		A			
16 2,4-D Ester	16 oz/a		A			
17 Roundup Powermax	21.3 oz/a		A		50/50 Water/28% Carrier	100 ab 100 a 0 a
17 Sharpen	1 oz/a		A			
17 Sencor 75DF	8 oz/a		A			
17 MSO	19.2 oz/a		A			
18 Liberty	36 oz/a		A		50/50 Water/28% Carrier	100 a 99 a 25 a
18 Sencor 75DF	8 oz/a		A			
19 Gramoxone Inteon	3 pt/a		A		50/50 Water/28% Carrier	100 a 100 a 0 a
19 Sencor 75DF	8 oz/a		A			
19 COC	19.2 oz/a		A			

Pest Type	W Weed	W Weed	W Weed
Pest Code	ERICA	ERICA	ERICA
Pest Scientific Name	Conyza canadensis	Conyza canadensis	Conyza canadensis
Pest Name	Canada horseweed	Canada horseweed	Canada horseweed
Rating Date	8-21-2014	9-4-2014	9-4-2014
Rating Type	CONTRO	CONTRO	with seed
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	14 14	28 28	28 28
Trt-Eval Interval	14 DA-A	28 DA-A	28 DA-A
ARM Action Codes	AA		
Number of Decimals	0	0	0

Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	1	2	3
20 Gramoxone Inteon	3 pt/a		A		50/50 Water/28% Carrier	100 a	100 a	0 a
20 Sencor 75DF	8 oz/a		A					
20 COC	19.2 oz/a		A					
20 2,4-D Ester	16 oz/a		A					
LSD P=.05						9.7t	11.3	32.4
Standard Deviation						6.8t	8.0	22.9
CV						8.34t	8.37	290.26
Grand Mean						82.1t	95.7	7.9
Bartlett's X2						10.891	43.91	11.859
P(Bartlett's X2)						0.283	0.001*	0.065
Skewness						-1.6677*	-3.1433*	3.1214*
Kurtosis						1.2642*	9.7712*	8.8999*
Replicate F						0.538	1.950	0.124
Replicate Prob(F)						0.6579	0.1318	0.9458
Treatment F						16.292	5.700	1.427
Treatment Prob(F)						0.0001	0.0001	0.1513

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

ERICA, Conyza canadensis, = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

ARM Action Codes

AA = Automatic arcsine square root % transformation