

Wheat Stubble Marestalk Treatments

Trial ID: 14WheatStub      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

Latitude of LL Corner °: 40.24952 N  
 Longitude of LL Corner °: -83.13963 W

Directions:

I70 to 42

42 north through Plain City and across Rt 33 toward Delaware.

Field is the first wheat stubble field on the right after you pass routes 745 and 257 and the river.

You will see Greenbriar farm sign after you pass 257 and then the field will be on the right. small field with drive in the middle of it.

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    Experimental Unit: 1    PLOT                    plot  
 Treated Plot Area: 300 FT2    Treatments: 20      Tillage Type: NOTILL    no-till  
 Replications: 4                    Study Design: RACOB    Randomized Complete Block (RCB)

No. Previous Crop Year  
 1. Wheat                    2014

Application Description

**A**  
 Application Date: 7-25-2014  
 Appl. Start Time: 12:30 PM  
 Appl. Stop Time: 1:00 PM  
 Application Method: SPRAY  
 Application Placement: BROFOL  
 Air Temperature, Unit: 70 F  
 % Relative Humidity: 53  
 Wind Velocity, Unit: 3 MPH  
 Wind Direction: SSE  
 Dew Presence (Y/N): N no  
 Soil Temperature, Unit: 68 F  
 Soil Moisture: DRY  
 % Cloud Cover: 2

Pest Stage At Each Application

**A**  
 Pest 1 Code, Type, Scale: ERICA W  
 Stage Majority, Percent: 19 100  
 Height, Unit: 4 IN  
 Height Minimum, Maximum: 4 15

Wheat Stubble Marestalk Treatments

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

	W Weed	W Weed	W Weed
	ERICA	ERICA	ERICA
Pest Type	Conyza canadensis	Conyza canadensis	Conyza canadensis
Pest Code	Canada horseweed	Canada horseweed	Canada horseweed
Pest Scientific Name			
Pest Name			
Rating Date	8-7-2014	8-21-2014	9-4-2014
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	13 13	27 27	41 41
Trt-Eval Interval	13 DA-A	27 DA-A	41 DA-A
ARM Action Codes		AA	
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Appl Description	1	2	3
1	Roundup Powermax	21.3 oz/a		A			28 d	77 c	85 b
	1 2,4-D Ester	32 oz/a		A					
	1 N-Pak	96 oz/a		A					
2	Roundup Powermax	21.3 oz/a		A			35 c	91 b	100 a
	2 Clarity	16 oz/a		A					
	2 N-Pak	96 oz/a		A					
3	Roundup Powermax	21.3 oz/a		A			100 a	100 a	100 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	100 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			100 a	100 a	100 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			100 a	100 a	100 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	100 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			43 b	94 b	100 a
	8 2,4-D Ester	16 oz/a		A					
9	Liberty	36 oz/a		A			100 a	100 a	95 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 canadensis	Conyza canadensis	Conyza canadensis
Pest Name	Canada horseweed	Canada horseweed	Canada horseweed
Rating Date	8-7-2014	8-21-2014	9-4-2014
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	13 13	27 27	41 41
Trt-Eval Interval	13 DA-A	27 DA-A	41 DA-A
ARM Action Codes		AA	
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Unit	Appl Code	Appl Description	1	2	3
10	Liberty	36 oz/a		A			100 a	100 a	100 a
	Sencor 75DF	8 oz/a		A					
	N-Pak	96 oz/a		A					
11	Liberty	36 oz/a		A			100 a	100 a	100 a
	Sencor 75DF	8 oz/a		A					
	2,4-D Ester	16 oz/a		A					
12	Liberty	36 oz/a		A			100 a	100 a	100 a
	Sharpen	1 oz/a		A					
	MSO	19.2 oz/a		A					
	N-Pak	96 oz/a		A					
13	Gramoxone Inteon	3 pt/a		A			100 a	100 a	100 a
	Sencor 75DF	8 oz/a		A					
	COC	19.2 oz/a		A					
14	Gramoxone Inteon	3 pt/a		A			99 a	100 a	100 a
	Sencor 75DF	8 oz/a		A					
	COC	19.2 oz/a		A					
	2,4-D Ester	16 oz/a		A					
15	Roundup Powermax	21.3 oz/a		A		50/50 Water/28% Carrier	99 a	100 a	100 a
	Sharpen	1 oz/a		A					
	MSO	19.2 oz/a		A					
16	Roundup Powermax	21.3 oz/a		A		50/50 Water/28% Carrier	100 a	100 a	100 a
	Sharpen	1 oz/a		A					
	2,4-D Ester	16 oz/a		A					
17	Roundup Powermax	21.3 oz/a		A		50/50 Water/28% Carrier	100 a	100 a	100 a
	Sharpen	1 oz/a		A					
	Sencor 75DF	8 oz/a		A					
	MSO	19.2 oz/a		A					
18	Liberty	36 oz/a		A		50/50 Water/28% Carrier	99 a	99 a	98 a
	Sencor 75DF	8 oz/a		A					
19	Gramoxone Inteon	3 pt/a		A		50/50 Water/28% Carrier	100 a	100 a	100 a
	Sencor 75DF	8 oz/a		A					
	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		8-7-2014	8-21-2014	9-4-2014
Rating Type		CONTRO	CONTRO	CONTRO
Rating Unit		%	%	%
Number of Subsamples		1	1	1
Days After First/Last Applic.		13 13	27 27	41 41
Trt-Eval Interval		13 DA-A	27 DA-A	41 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
20 Gramoxone Inteon	3 pt/a	A	50/50 Water/28% Carrier	100 a 100 a 100 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				3.9 7.3t 6.5
Standard Deviation				2.8 5.2t 4.6
CV				3.06 5.99t 4.62
Grand Mean				90.1 86.4t 98.9
Bartlett's X2				10.906 5.586 3.993
P(Bartlett's X2)				0.053 0.349 0.136
Skewness				-2.069* -2.5877* -4.8916*
Kurtosis				2.4795* 6.0256* 23.6599*
Replicate F				1.029 0.568 1.109
Replicate Prob(F)				0.3867 0.6383 0.3529
Treatment F				299.911 8.823 2.373
Treatment Prob(F)				0.0001 0.0001 0.0063

Pest Type	W Weed
Pest Code	ERICA
Pest Scientific Name	Conyza canadensis
Pest Name	Canada horseweed
Rating Date	9-4-2014
Rating Type	% W/ Seed
Rating Unit	%
Number of Subsamples	1
Days After First/Last Applic.	41 41
Trt-Eval Interval	41 DA-A
ARM Action Codes	
Number of Decimals	

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	
						4
1	Roundup Powermax	21.3 oz/a		A		50.0 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		0.0 a
2	Clarity	16 oz/a		A		
2	N-Pak	96 oz/a		A		
3	Roundup Powermax	21.3 oz/a		A		0.0 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		0.0 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		0.0 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		0.0 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		0.0 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		0.0 a
8	2,4-D Ester	16 oz/a		A		
9	Liberty	36 oz/a		A		25.0 a
9	N-Pak	96 oz/a		A		

Pest Type	W Weed
Pest Code	ERICA
Pest Scientific Name	Conyza canadensis
Pest Name	Canada horseweed
Rating Date	9-4-2014
Rating Type	% W/ Seed
Rating Unit	%
Number of Subsamples	1
Days After First/Last Applic.	41 41
Trt-Eval Interval	41 DA-A
ARM Action Codes	
Number of Decimals	

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	
10	Liberty	36 oz/a		A		0.0 a
10	Sencor 75DF	8 oz/a		A		
10	N-Pak	96 oz/a		A		
11	Liberty	36 oz/a		A		0.0 a
11	Sencor 75DF	8 oz/a		A		
11	2,4-D Ester	16 oz/a		A		
12	Liberty	36 oz/a		A		0.0 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		0.0 a
13	Sencor 75DF	8 oz/a		A		
13	COC	19.2 oz/a		A		
14	Gramoxone Inteon	3 pt/a		A		0.0 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	0.0 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	0.0 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	0.0 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	25.0 a
18	Sencor 75DF	8 oz/a		A		
19	Gramoxone Inteon	3 pt/a		A	50/50 Water/28% Carrier	0.0 a
19	Sencor 75DF	8 oz/a		A		
19	COC	19.2 oz/a		A		

Pest Type	W Weed
Pest Code	ERICA
Pest Scientific Name	Conyza canadensis
Pest Name	Canada horseweed
Rating Date	9-4-2014
Rating Type	% W/ Seed
Rating Unit	%
Number of Subsamples	1
Days After First/Last Applic.	41 41
Trt-Eval Interval	41 DA-A
ARM Action Codes	
Number of Decimals	

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	
	20 Gramoxone Inteon	3 pt/a	A		50/50 Water/28% Carrier	0.0 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	29.05
Standard Deviation	20.52
CV	410.39
Grand Mean	5.00
Bartlett's X2	0.084
P(Bartlett's X2)	0.959
Skewness	4.2088*
Kurtosis	16.1165*
Replicate F	0.792
Replicate Prob(F)	0.5036
Treatment F	1.625
Treatment Prob(F)	0.0811

Wheat Stubble Marestalk Treatments

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

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