

LSU Northeast Research Station

Marestail control with 2,4-D and dicamba.

Trial ID: SJ07B010 Protocol ID: SJ07B010
 Location: Study Director:
 Investigator: Bill Williams

General Trial Information

Investigator: Bill Williams

Pest Description

Pest 1 Type: W **Code:** LAMAM *Lamium amplexicaule*
Common Name: Henbit

Pest 2 Type: W **Code:** OEOLA *Oenothera laciniata*
Common Name: Cutleaf eveningprimrose

Pest 3 Type: W **Code:** HPPVU *Hippuris vulgaris*
Common Name: Common mare's-tail

Site and Design

Plot Width, Unit: 6.67 FT **Site Type:** FIELD
Plot Length, Unit: 15 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Factorial

Soil Description

Description Name: Garden cut
% Sand: 34 **% OM:** 0.6 **Texture:** Silt loam
% Silt: 54 **pH:** 5.3 **Soil Name:** Commerce Silt loam
% Clay: 12 **CEC:** 6.3 **Fert. Level:** EXCELLENT

Moisture and Weather Conditions

Overall Moisture Conditions: Dry
Closest Weather Station: Northeast Research Station

	Date	Amount	Unit
1.	21/Feb/07	0.01	IN
2.	24/Feb/07	0.65	IN
3.	25/Feb/07	0.01	IN
4.	1/Mar/07	1.17	IN
5.	27/Mar/07	0.01	IN
6.	31/Mar/07	0.63	IN
7.	1/Apr/07	0.01	IN
8.	2/Apr/07	0.01	IN
9.	3/Apr/07	0.09	IN
10.	4/Apr/07	0.19	IN
11.	7/Apr/07	0.14	IN
12.	8/Apr/07	0.1	IN
13.	10/Apr/07	1.01	IN
14.	14/Apr/07	0.39	IN
15.	18/Apr/07	0.11	IN
16.	25/Apr/07	1.37	IN
17.	26/Apr/07	0.41	IN
18.	2/May/07	0.04	IN

19.3/May/07 1.24 IN
 20.15/May/07 0.02 IN
 21.16/May/07 0.01 IN
 22.17/May/07 0.01 IN
 23.3/Jun/07 0.02 IN
 24.16/Jun/07 0.01 IN
 25.18/Jun/07 0.02 IN
 26.19/Jun/07 0.4 IN
 27.2/Jul/07 0.3 IN
 28.3/Jul/07 0.06 IN
 29.4/Jul/07 1.14 IN
 30.5/Jul/07 0.31 IN
 31.6/Jul/07 0.27 IN
 32.7/Jul/07 1.39 IN
 33.9/Jul/07 0.36 IN
 34.10/Jul/07 0.01 IN
 35.11/Jul/07 0.27 IN
 36.13/Jul/07 0.3 IN
 37.14/Jul/07 1.96 IN
 38.15/Jul/07 2.8 IN
 39.17/Jul/07 1.56 IN
 40.20/Jul/07 0.93 IN
 41.21/Jul/07 0.1 IN
 42.22/Jul/07 0.01 IN
 43.30/Jul/07 2.35 IN

Application Description

A

Application Date: 8/Mar/07
Time of Day: 2:00
Application Method: SPRAY
Application Timing: PP
Application Placement: BROFOL
Applied By: BW
Air Temperature, Unit: 79 F
% Relative Humidity: 35
Wind Velocity, Unit: 0
Soil Temperature, Unit: 67 F
Soil Moisture: DAMP
% Cloud Cover: 10

Pest Stage At Each Application

A

Pest 1 Code, Disc., Scale: LAMAM W
Stage Minimum, Percent: 4"
Stage Maximum, Percent: 8"
Pest 2 Code, Disc., Scale: OEOLA W
Stage Majority, Percent: 7"
Pest 3 Code, Disc., Scale: HPPVU W
Stage Majority, Percent: 4"

Application Equipment

A

Appl. Equipment: Backpack
Operating Pressure, Unit: 31 psi
Nozzle Type: Greenleaf
Nozzle Size: 11002
Nozzle Spacing, Unit: 20 in
Nozzles/Row: 2
Ground Speed, Unit: 2.8 mph
Carrier: water
Spray Volume, Unit: 15 GAL/AC
Propellant: CO2

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Pest Type

Pest Code

Rating Date

Trt-Eval Interval

OEOLA OEOLA OEOLA ERICA ERICA ERICA
 22/Mar/07 29/Mar/07 18/Apr/07 22/Mar/07 29/Mar/07 18/Apr/07
 14 DA-A 26 DA-A 40 DA-A 14 DA-A 26 DA-A 40 DA-A

Trt No.	Treatment	Rate	Unit	Growth Stage	1	2	3	4	5	6	
1	2,4-D Ester dicamba	0	OZ/A pp		0	e 0	c 0	d 0	d 0	e 0	d
2	2,4-D Ester dicamba	4	OZ/A pp		53	d 57	b 30	c 82	a 83	b 78	b
3	2,4-D Ester dicamba	8	OZ/A pp		55	d 57	b 83	b 83	a 88	ab 93	a
4	2,4-D Ester dicamba	16	OZ/A pp		75	c 92	a 93	a 70	c 67	d 57	c
5	2,4-D Ester dicamba	16	OZ/A pp		90	ab 92	a 95	a 73	bc 92	a 88	a
6	2,4-D Ester dicamba	16	OZ/A pp		80	bc 92	a 95	a 87	a 92	a 93	a
7	2,4-D Ester dicamba	24	OZ/A pp		85	ab 90	a 95	a 72	c 77	c 73	b
8	2,4-D Ester dicamba	24	OZ/A pp		90	ab 92	a 93	a 80	ab 92	a 95	a
9	2,4-D Ester dicamba	24	OZ/A pp		90	ab 92	a 96	a 80	ab 92	a 93	a
10	2,4-D Ester dicamba	32	OZ/A pp		92	a 92	a 96	a 80	ab 83	b 77	b
11	2,4-D Ester dicamba	32	OZ/A pp		90	ab 92	a 96	a 85	a 92	a 96	a
12	2,4-D Ester dicamba	32	OZ/A pp		90	ab 92	a 96	a 80	ab 92	a 96	a

LSD (P=.10)

Standard Deviation

CV

Grand Mean

Bartlett's X2

P(Bartlett's X2)

6.0	4.7	3.3	5.0	4.3	5.5
4.3	3.3	2.4	3.6	3.1	3.9
5.78	4.27	2.94	4.93	3.88	4.99
74.17	78.06	80.86	72.64	79.03	78.42
3.017	3.389	3.3	1.834	5.51	6.432
0.697	0.947	0.77	0.872	0.855	0.696

Replicate F

Replicate Prob(F)

Treatment F

0.794	1.000	1.628	0.054	14.691	2.189
0.4646	0.3840	0.2192	0.9474	0.0001	0.1358
118.969	211.886	531.063	128.685	217.040	148.161

Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
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Pest Type								
Pest Code		OEOLA	OEOLA	OEOLA	ERICA	ERICA	ERICA	
Rating Date		22/Mar/07	29/Mar/07	18/Apr/07	22/Mar/07	29/Mar/07	18/Apr/07	
Trt-Eval Interval		14 DA-A	26 DA-A	40 DA-A	14 DA-A	26 DA-A	40 DA-A	
Trt Treatment	Rate	Growth						
No.Name	RateUnit	Stage	1	2	3	4	5	6

Means followed by same letter do not significantly differ ($P=0.10$, Student-Newman-Keuls)

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