

LSU Northeast Research Station

Henbit control with selected herbicides.

Trial ID: SJ07B006 Protocol ID: SJ07B006
 Location: Study Director:
 Investigator: Bill Williams

General Trial Information

Investigator: Bill Williams

Pest Description

Pest 1 Type: W **Code:** OEOLA *Oenothera laciniata*
Common Name: Cutleaf eveningprimrose

Pest 2 Type: W **Code:** RUMCR *Rumex crispus*
Common Name: Curly dock

Pest 3 Type: W **Code:** LAMAM *Lamium amplexicaule*
Common Name: Henbit

Pest 4 Type: W **Code:** POAAN *Poa annua*
Common Name: Annual bluegrass

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: OAC
% Sand: 20 **% OM:** 1.6 **Texture:** Silty Clay Loam
% Silt: 54 **pH:** 5.9 **Soil Name:** Mhoon
% Clay: 26 **CEC:** 12.4 **Fert. Level:** EXCELLENT

Moisture and Weather Conditions

Overall Moisture Conditions: Dry
Closest Weather Station: Northeast Research Station **Distance:** 0.25 **Unit:** M

	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/071.37 IN
 17.26/Apr/070.41 IN
 18.2/May/07 0.04 IN
 19.3/May/07 1.24 IN
 20.15/May/070.02 IN
 21.16/May/070.01 IN
 22.17/May/070.01 IN
 23.3/Jun/07 0.02 IN
 24.16/Jun/070.01 IN
 25.18/Jun/070.02 IN
 26.19/Jun/070.4 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/070.01 IN
 35.11/Jul/070.27 IN
 36.13/Jul/070.3 IN
 37.14/Jul/071.96 IN
 38.15/Jul/072.8 IN
 39.17/Jul/071.56 IN
 40.20/Jul/070.93 IN
 41.21/Jul/070.1 IN
 42.22/Jul/070.01 IN
 43.30/Jul/072.35 IN

Application Description

A

Application Date: 21/Feb/07
Time of Day: 3:00
Application Method: Spray
Application Timing: PP
Application Placement: BROFOL
Applied By: AB/BW
Air Temperature, Unit: 81 F
% Relative Humidity: 34
Wind Velocity, Unit: 5 MPH
Wind Direction: N
Soil Temperature, Unit: 70 F
Soil Moisture: DAMP
% Cloud Cover: 10

Pest Stage At Each Application

A

Pest 1 Code, Disc., Scale: OEOLA W
Stage Majority, Percent: ROSE
Stage Minimum, Percent: 4"
Stage Maximum, Percent: 6"
Pest 2 Code, Disc., Scale: RUMCR W
Stage Minimum, Percent: 8"
Stage Maximum, Percent: 12"
Pest 3 Code, Disc., Scale: LAMAM W
Stage Majority, Percent: flower
Stage Minimum, Percent: 8"
Stage Maximum, Percent: 12"
Pest 4 Code, Disc., Scale: POAAN W
Stage Minimum, Percent: 2"
Stage Maximum, Percent: 3"

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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Henbit control with selected herbicides.

Trial ID: SJ07B006

Protocol ID: SJ07B006

Location:

Study Director:

Investigator: Bill Williams

Pest Type

Pest Code

Rating Date

Trt-Eval Interval

LAMAM LAMAM LAMAM OEOLA OEOLA OEOLA
 28/Feb/07 9/Mar/07 22/Mar/07 28/Feb/07 9/Mar/07 22/Mar/07
 7 DA-A 16 DA-A 29 DA-A 7 DA-A 16 DA-A 29 DA-A

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	5	6	7
1	Glyphosate alone	32	OZ/APP	0	e 63	c 77	b 0	f 33	c 30	b
2	Glyphosate	32	OZ/APP	20	d 73	b 77	b 20	e 80	ab 92	a
	2,4-D Amine	24	OZ/APP							
3	Glyphosate	32	OZ/APP	20	d 83	a 92	a 20	e 78	ab 95	a
	2,4-D Amine	24	OZ/APP							
	Resolve	1	OZ/APP							
4	Glyphosate	32	OZ/APP	0	e 63	c 88	a 0	f 73	b 88	a
	Resolve	1	OZ/APP							
	Atrazine	1	PT/A PP							
5	Ignite alone	22	OZ/APP	40	c 87	a 92	a 85	b 78	ab 85	a
6	Ignite	22	OZ/APP	60	b 92	a 88	a 90	a 90	a 93	a
	2,4-D Amine	24	OZ/APP							
7	Ignite	22	OZ/APP	40	c 93	a 93	a 80	c 88	ab 95	a
	2,4-D Amine	24	OZ/APP							
	Resolve	1	OZ/APP							
8	Ignite	22	OZ/APP	0	e 83	a 95	a 0	f 88	ab 92	a
	Resolve	1	OZ/APP							
	Atrazine	1	PT/A PP							
9	Gramoxone Inteon alone	40	OZ/APP	90	a 90	a 77	b 60	d 73	b 0	c
10	Gramoxone Inteon	40	OZ/APP	90	a 93	a 87	a 80	c 87	ab 88	a
	2,4-D Amine	24	OZ/APP							
11	Gramoxone Inteon	40	OZ/APP	90	a 93	a 92	a 80	c 83	ab 92	a
	2,4-D Amine	24	OZ/APP							
	Resolve	1	OZ/APP							
12	Gramoxone Inteon	40	OZ/APP	90	a 92	a 92	a 80	c 82	ab 88	a
	Resolve	1	OZ/APP							
	Atrazine	1	PT/A PP							
LSD (P=.10)					0.0	5.8	6.6	0.0	8.3	6.0
Standard Deviation					0.0	4.1	4.7	0.0	5.9	4.3
CV					0.0	4.91	5.4	0.0	7.56	5.44
Grand Mean					45.0	83.89	87.36	49.58	77.92	78.19

Bartlett's X2	0.0	4.391	3.45	0.0	4.72	7.091
P(Bartlett's X2)	.	0.957	0.969	.	0.909	0.42
Replicate F	0.000	3.230	3.210	0.000	0.060	1.878
Replicate Prob(F)	1.0000	0.0589	0.0598	1.0000	0.9418	0.1766
Treatment F	0.000	22.335	6.286	0.000	19.809	152.484
Treatment Prob(F)	1.0000	0.0001	0.0001	1.0000	0.0001	0.0001

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Pest Type										
Pest Code		LAMAM	LAMAM	LAMAM	OEOLA	OEOLA	OEOLA			
Rating Date		28/Feb/07	9/Mar/07	22/Mar/07	28/Feb/07	9/Mar/07	22/Mar/07			
Trt-Eval Interval		7 DA-A	16 DA-A	29 DA-A	7 DA-A	16 DA-A	29 DA-A			
Trt Treatment										
No.	Name	Rate	Unit	Stage	1	2	3	5	6	7

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)

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

LSU Northeast Research Station

Pest Type			
Pest Code		RUMCR	RUMCR RUMCR
Rating Date		28/Feb/07	9/Mar/07 22/Mar/07
Trt-Eval Interval		7 DA-A	16 DA-A 29 DA-A

Trt Treatment	Rate	Growth	9	10	11
No. Name	Rate Unit	Stage			
1 Glyphosate alone	32 OZ/APP		80	b 63	ef 67 c
2 Glyphosate	32 OZ/APP		50	e 80	abc 88 ab
2,4-D Amine	24 OZ/APP				
3 Glyphosate	32 OZ/APP		60	d 83	abc 93 a
2,4-D Amine	24 OZ/APP				
Resolve	1 OZ/APP				
4 Glyphosate	32 OZ/APP		30	f 57	f 72 c
Resolve	1 OZ/APP				
Atrazine	1 PT/A PP				
5 Ignite alone	22 OZ/APP		80	b 92	a 95 a
6 Ignite	22 OZ/APP		90	a 90	a 93 a
2,4-D Amine	24 OZ/APP				
7 Ignite	22 OZ/APP		90	a 93	a 95 a
2,4-D Amine	24 OZ/APP				
Resolve	1 OZ/APP				
8 Ignite	22 OZ/APP		30	f 88	ab 93 a
Resolve	1 OZ/APP				
Atrazine	1 PT/A PP				
9 Gramoxone Inteon alone	40 OZ/APP		60	d 73	cde 53 d
10 Gramoxone Inteon	40 OZ/APP		70	c 83	abc 67 c
2,4-D Amine	24 OZ/APP				
11 Gramoxone Inteon	40 OZ/APP		80	b 77	bcd 83 b
2,4-D Amine	24 OZ/APP				
Resolve	1 OZ/APP				
12 Gramoxone Inteon	40 OZ/APP		60	d 68	de 67 c
Resolve	1 OZ/APP				
Atrazine	1 PT/A PP				

LSD (P=.10)	0.0	8.0	6.1
Standard Deviation	0.0	5.7	4.3
CV	0.0	7.22	5.37
Grand Mean	65.0	79.03	80.56
Bartlett's X2	0.0	3.519	4.284
P(Bartlett's X2)	.	0.966	0.892

Replicate F	0.000	1.559	2.824
Replicate Prob(F)	1.0000	0.2327	0.0810
Treatment F	0.000	12.650	34.649
Treatment Prob(F)	1.0000	0.0001	0.0001

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Pest Type				
Pest Code		RUMCR	RUMCR	RUMCR
Rating Date		28/Feb/07	9/Mar/07	22/Mar/07
Trt-Eval Interval		7 DA-A	16 DA-A	29 DA-A

Trt Treatment	Rate	Growth			
No. Name	Rate Unit	Stage	9	10	11

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)

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