

# LSU Northeast Research Station

## HENBIT CONTROL

### GENERAL TRIAL INFORMATION

Study Director: DONNIE MILLER  
Investigator: Donnie Miller  
TRIAL LOCATION: ST JOSEPH, LA

### CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1. LAMAM	Henbit	Lamium amplexicaule
2. POAAN	Annual bluegrass	Poa annua
3. CAPBP	Shepherd's purse	Capsella bursa-pastoris
4. CARHI	Bittercress, hairy	Cardamine hirsuta

### SITE AND DESIGN

Plot Width, Unit: 6.67 FT  
Plot Length, Unit: 20 FT  
Reps: 4  
Study Design: RANDOMIZED COMPLETE BLOCK

### SOIL DESCRIPTION

% Sand: 16      % OM: 1.4  
% Silt: 54      pH: 6.1  
% Clay: 30      CEC: 13.7  
Texture: silty clay loam

### APPLICATION DESCRIPTION

A  
Application Date: 11/Feb/2008  
Time of Day: 2:40 PM  
Application Method: SPRAY  
Application Timing: EAPOWE  
Applic. Placement: BROFOL  
Air Temp., Unit: 71 F  
% Relative Humidity: 47  
Wind Velocity, Unit: 12.9 MPH  
Dew Presence (Y/N): N  
Water Hardness: N  
Soil Temp., Unit: 56 F  
Soil Moisture: MOIST  
% Cloud Cover: 85

### WEED STAGE AT EACH APPLICATION

A  
Weed 1 Code, Stage: LAMAM 4-6 "  
Stage Scale: sm. bloom  
Weed 2 Code, Stage: POAAN 2 "  
Weed 3 Code, Stage: CAPBP 3-4 "  
Weed 4 Code, Stage: CARHI 1-2" DIA

### APPLICATION EQUIPMENT

A  
Appl. Equipment: CO2 BCPCK  
Operating Pressure: 34 PSI  
Nozzle Type: DG  
Nozzle Size: 11002 VS  
Nozzle Spacing, Unit: 20 "  
Nozzles/Row: 2  
Ground Speed, Unit: 3.2 MPH  
Carrier: WATER  
Spray Volume, Unit: 15 GPA

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Weed Code		LAMAM	CAPBP	POAAN	CARHI	LAMAM	CAPBP	POAAN	CARHI	LAMAM		
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit		%	%	%	%	%	%	%	%	%		
Rating Date		18/Feb/2008	18/Feb/2008	18/Feb/2008	18/Feb/2008	25/Feb/2008	25/Feb/2008	25/Feb/2008	25/Feb/2008	10/Mar/2008		
Trt-Eval Interval		7 DA-A	7 DA-A	7 DA-A	7 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A		
Trt Treatment												
No.	Name	Rate	Unit	1	2	3	4	5	6	7	8	9
1	ROUNDUP WEATHERMAX	22	oz/a	20.00 e	20.00 f	22.50 de	27.50 cd	26.25 f	23.75 e	36.25 e	36.25 ef	53.75 e
	SALVO	12.8	oz/a									
2	ROUNDUP WEATHERMAX	22	oz/a	33.75 b	30.00 bcd	27.50 bcd	38.75 bc	48.75 bc	37.50 cde	75.00 ab	67.50 b	71.25 c
	SALVO	12.8	oz/a									
	GOAL	12	oz/a									
3	ROUNDUP WEATHERMAX	22	oz/a	35.00 b	33.33 b	28.75 bcd	35.00 bcd	53.75 b	47.50 bc	70.00 bc	60.00 bc	80.00 b
	SALVO	12.8	oz/a									
	GOAL	1	pt/a									
4	ROUNDUP WEATHERMAX	22	oz/a	32.50 bc	28.75 bcd	25.00 cd	35.00 bcd	43.75 cd	40.00 bcd	58.75 cd	56.25 bc	65.00 cd
	SALVO	12.8	oz/a									
	GOAL	6.4	oz/a									
5	ROUNDUP WEATHERMAX	22	oz/a	31.25 bc	31.67 bc	25.00 cd	38.75 bc	47.50 bc	55.00 b	70.00 bc	60.14 bc	71.25 c
	SALVO	12.8	oz/a									
	AIM	1.5	oz/a									
6	ROUNDUP WEATHERMAX	22	oz/a	36.25 b	33.33 b	25.00 cd	42.50 b	45.00 bcd	40.00 bcd	70.00 bc	51.25 cd	71.25 c
	SALVO	12.8	oz/a									
	AIM	1.5	oz/a									
	COC	1	% v/v									
7	ROUNDUP WEATHERMAX	22	oz/a	36.25 b	30.00 bcd	25.00 cd	28.75 cd	45.00 bcd	36.67 cde	57.50 cd	55.00 bc	61.25 d
	SALVO	12.8	oz/a									
	ET	2	oz/a									
8	ROUNDUP WEATHERMAX	22	oz/a	33.75 b	30.00 bcd	26.25 cd	32.50 bcd	43.75 cd	55.00 b	62.50 bcd	53.47 bcd	66.25 cd
	SALVO	12.8	oz/a									
	ET	2	oz/a									
	COC	1	% v/v									
9	IGNITE	22	oz/a	32.50 bc	27.50 b-e	38.75 a	32.50 bcd	37.50 de	30.00 de	17.50 f	32.50 ef	43.75 f
	SALVO	12.8	oz/a									
10	IGNITE	16	oz/a	27.50 cd	26.25 c-f	36.25 ab	31.25 bcd	27.50 f	25.00 de	13.75 f	26.25 ef	41.25 f
	SALVO	12.8	oz/a									
11	ROUNDUP WEATHERMAX	22	oz/a	22.50 de	23.75 def	15.00 e	25.00 d	27.50 f	35.00 cde	55.00 d	40.00 de	66.25 cd
12	IGNITE	22	oz/a	22.50 de	21.25 ef	33.75 abc	27.50 cd	28.75 ef	31.25 de	12.50 f	25.00 f	42.50 f
13	ROUNDUP WEATHERMAX	22	oz/a	50.00 a	50.00 a	40.00 a	55.00 a	86.25 a	90.00 a	85.00 a	92.50 a	88.75 a
	SALVO	12.8	oz/a									
	VALOR	1	oz/a									
14	ROUNDUP WEATHERMAX	22	oz/a	55.00 a	50.00 a	40.00 a	60.00 a	88.75 a	88.33 a	86.25 a	92.50 a	93.75 a
	SALVO	12.8	oz/a									
	VALOR	2	oz/a									
LSD (P=.05)				5.653	6.714	8.997	11.384	9.592	15.559	14.524	14.452	6.746
Standard Deviation				3.956	4.643	6.296	7.966	6.712	10.760	10.163	10.113	4.721
CV				11.81	14.91	21.56	21.87	14.46	23.72	18.48	18.91	7.21
Grand Mean				33.48	31.13	29.2	36.43	46.43	45.36	55.0	53.47	65.45
Bartlett's X2				14.588	7.453	5.088	9.436	9.027	14.476	30.471	26.68	11.746
P(Bartlett's X2)				0.148	0.489	0.927	0.491	0.701	0.341	0.004*	0.014*	0.549
Replicate F				4.441	0.383	2.083	3.545	1.797	4.465	4.022	6.074	10.650
Replicate Prob(F)				0.0089	0.7657	0.1181	0.0231	0.1638	0.0107	0.0138	0.0018	0.0001
Treatment F				23.976	14.909	5.618	6.589	33.951	15.012	24.705	17.494	46.880
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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.

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Weed Code		CAPBP	POAAN	CARHI
Rating Data Type		CONTROL	CONTROL	CONTROL
Rating Unit		%	%	%
Rating Date		10/Mar/2008	10/Mar/2008	10/Mar/2008
Trt-Eval Interval		28 DA-A	28 DA-A	28 DA-A
Trt	Treatment	Rate		
No.	Name	Rate	Unit	
		10	11	12
1	ROUNDUP WEATHERMAX	22 oz/a	52.50 bc	100.00 a
	SALVO	12.8 oz/a		94.76 ab
2	ROUNDUP WEATHERMAX	22 oz/a	66.67 b	100.00 a
	SALVO	12.8 oz/a		95.00 ab
	GOAL	12 oz/a		
3	ROUNDUP WEATHERMAX	22 oz/a	55.00 bc	100.00 a
	SALVO	12.8 oz/a		92.50 bc
	GOAL	1 pt/a		
4	ROUNDUP WEATHERMAX	22 oz/a	60.00 b	100.00 a
	SALVO	12.8 oz/a		95.00 ab
	GOAL	6.4 oz/a		
5	ROUNDUP WEATHERMAX	22 oz/a	68.33 b	100.00 a
	SALVO	12.8 oz/a		95.00 ab
	AIM	1.5 oz/a		
6	ROUNDUP WEATHERMAX	22 oz/a	68.33 b	98.75 a
	SALVO	12.8 oz/a		95.00 ab
	AIM	1.5 oz/a		
	COC	1 % v/v		
7	ROUNDUP WEATHERMAX	22 oz/a	63.33 b	100.00 a
	SALVO	12.8 oz/a		95.00 ab
	ET	2 oz/a		
8	ROUNDUP WEATHERMAX	22 oz/a	67.50 b	100.00 a
	SALVO	12.8 oz/a		95.00 ab
	ET	2 oz/a		
	COC	1 % v/v		
9	IGNITE	22 oz/a	60.00 b	32.50 b
	SALVO	12.8 oz/a		87.50 cd
10	IGNITE	16 oz/a	41.25 cd	28.75 bc
	SALVO	12.8 oz/a		76.42 e
11	ROUNDUP WEATHERMAX	22 oz/a	63.75 b	100.00 a
12	IGNITE	22 oz/a	31.25 d	25.00 c
				83.75 d
13	ROUNDUP WEATHERMAX	22 oz/a	100.00 a	100.00 a
	SALVO	12.8 oz/a		100.00 a
	VALOR	1 oz/a		
14	ROUNDUP WEATHERMAX	22 oz/a	100.00 a	100.00 a
	SALVO	12.8 oz/a		100.00 a
	VALOR	2 oz/a		
LSD (P=.05)		15.933	4.335	6.780
Standard Deviation		11.019	3.034	4.744
CV		17.18	3.58	5.11
Grand Mean		64.14	84.64	92.85
Bartlett's X2		15.648	2.886	3.164
P(Bartlett's X2)		0.155	0.41	0.367
Replicate F		3.678	0.129	1.540
Replicate Prob(F)		0.0233	0.9421	0.2203
Treatment F		11.365	399.776	7.103
Treatment Prob(F)		0.0001	0.0001	0.0001

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.