

## Little Barley Control with Various Herbicides.

00-2B-E80

**OBJECTIVE:** Evaluate the efficacy of several wheat, corn, soybean, and non-crop herbicides for control of little barley.

**SUMMARY:** Only Gramoxone Extra, Roundup Ultra and Liberty controlled at least 80% of little barley at 14 days after treatment (DAT). By 28 DAT, Maverick and Select controlled 82 and 92% of little barley, respectively. However, little barley control with Liberty declined to 50% by 28 DAT. Roundup Ultra was the only herbicide in this study to provide complete control of little barley at both 14 and 28 DAT.

### HERBICIDES

AATREX 90 WG  
 ACHIEVE 40 DG  
 BASIS 75 WG  
 CANOPY XL 56.3 WG  
 DISCOVER 2 EC  
 EVEREST 70 WG  
 GRAMOXONE EXTRA 2.5 SL  
 HARMONY EXTRA 75 WG  
 HOELON 3 EC  
 LIBERTY 1.67 EC  
 MAVERICK 75 WG  
 OLYMPUS 70 WG  
 ROUNDUP ULTRA 3 SL  
 SELECT 2 EC  
 SENCOR 75 WG  
 SCORE 100 LIQ  
 SUPERCHARGE 100 LIQ

### WEEDS

BARLEY, LITTLE  
 GARLIC, WILD  
 HENBIT

### CROP

NON-CROP

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PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

Little Barley Control with Various Herbicides.

Project Code: 00-2B-E80      Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

Weed Code	Common Name	Scientific Name
1. LAMAM	HENBIT	LAMIUM AMPLEXICAULE L.
2. HORPU	BARLEY, LITTLE	HORDEUM PUSILLUM
3. ALLVI	GARLIC, WILD	ALLIUM VINEALE L.

Crop 1:      NONE      NON-CROP

Plot Width, Unit:	10 FT	Plot Length, Unit:	28 FT	Reps:	3
Tillage Type:	NO-TILL	Study Design:	RCB		
Previous Crop, Year:	ZEAMX, 1999	Fertilizer applied:	N 0 LB/A,	P <sub>2</sub> O <sub>5</sub>	50 LB/A,      K <sub>2</sub> O 150 LB/A
Soil Name:	WEIR	% OM:	1.8	pH:	6.5
Texture:	SILT LOAM	P <sub>1</sub> :	79 LB/A,	K:	436 LB/A
				CEC:	9

#### APPLICATION DESCRIPTION

A  
 Application Date: Mar-31-00  
 Time of Day: 15:00  
 Application Method: SPRAY  
 Application Timing: SPRING  
 Applic. Placement: BROFOL  
 Air Temp., Unit: 64 F  
 % Relative Humidity: 18  
 Wind Velocity, Unit: 0 MPH  
 Soil Moisture: DRY

#### CROP STAGE AT EACH APPLICATION

A  
 Crop 1 Code, Stage: NA  
 Height, Unit: NA

#### WEED STAGE AT EACH APPLICATION

A  
 Weed 1 Code: LAMAM  
 Stage(leaves): 10+  
 Height(inches): 3-6  
 Density: MEDIUM

Weed 2 Code: HORPU  
 Stage(leaves): 3-4  
 Height(inches): 1-4  
 Density: HIGH

Weed 3 Code: ALLVI  
 Stage(leaves): 3-4  
 Height(inches): 4-12  
 Density: MEDIUM

#### APPLICATION EQUIPMENT

A  
 Appl. Equipment: CO, SPRAY  
 Operating Pressure: 40 PSI  
 Nozzle Type: FLAT FAN  
 Nozzle Size: 8004  
 Boom Length, Unit: 7.33 FT  
 Spray Volume, Unit: 20 GPA

#### NOTES:

Not harvested.

TABLE. LITTLE BARLEY CONTROL WITH VARIOUS HERBICIDES. PROJECT CODE:00-2B-E80

TREATMENT	FORM.	RATE	UNIT	PROD RATE	APPL TIME	APPL CODE	CONTROL, DAYS AFTER SPRING					
							HORPU		ALLVI		LAMAM	
							14	28	14	28	14	28
							%	%	%	%	%	%
1 EVEREST	70 WG	0.027	LB A/A	0.62	OZ/A	SPRING A	0	8	0	17	0	33
1 ACTIVATOR 90	100 LIQ	0.5	% V/V	0.5	% V/V	SPRING A						
2 OLYMPUS	70 WG	0.04	LB A/A	0.91	OZ/A	SPRING A	0	50	0	17	0	25
2 ACTIVATOR 90	100 LIQ	0.5	% V/V	0.5	% V/V	SPRING A						
3 MAVERICK	75 WG	0.03125	LB A/A	0.67	OZ/A	SPRING A	0	82	0	50	0	68
3 ACTIVATOR 90	100 LIQ	0.5	% V/V	0.5	% V/V	SPRING A						
4 ACHIEVE	40 DG	0.24	LB A/A	9.6	OZ/A	SPRING A	0	0	0	0	0	17
4 SUPERCHARGE	100 LIQ	0.5	% V/V	0.5	% V/V	SPRING A						
4 AMS	100 DRY	1.8	% W/W	15.0	LB/100 GAL	SPRING A						
5 HOELON	3 EC	1.0	LB A/A	2.67	PT/A	SPRING A	0	8	0	0	0	17
5 ACTIVATOR 90	100 LIQ	0.5	% V/V	0.5	% V/V	SPRING A						
6 DISCOVER	2 EC	0.0625	LB A/A	4.0	OZ/A	SPRING A	0	25	0	27	0	33
6 SCORE	100 LIQ	1.0	% V/V	1.0	% V/V	SPRING A						
7 HARMONY EXTRA	75 WG	0.0235	LB A/A	0.5	OZ/A	SPRING A	0	0	0	17	0	60
7 ACTIVATOR 90	100 LIQ	0.5	% V/V	0.5	% V/V	SPRING A						
8 GRAMOXONE EXT	2.5 SL	0.625	LB A/A	2.0	PT/A	SPRING A	99	93	99	90	99	99
8 ACTIVATOR 90	100 LIQ	0.125	% V/V	0.125	% V/V	SPRING A						
9 ROUNDUP ULTRA	3 SL	0.56	LB AE/A	1.5	PT/A	SPRING A	99	99	0	33	50	99
10 LIBERTY	1.67 EC	0.313	LB A/A	1.5	PT/A	SPRING A	80	50	50	0	99	99
11 CANOPY XL	56.3 WG			6.8	OZ/A	SPRING A	0	50	0	17	0	98
11 ->CLASSIC	25 WG	0.04	LB A/A			SPRING A						
11 ->AUTHORITY	75 WG	0.2	LB A/A			SPRING A						
11 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	% V/V	SPRING A						
12 SENCOR	75 WG	0.094	LB A/A	2.0	OZ/A	SPRING A	0	8	0	0	0	99
12 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	% V/V	SPRING A						
13 SELECT	2 EC	0.094	LB A/A	6.0	OZ/A	SPRING A	0	92	0	17	0	0
13 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	% V/V	SPRING A						
14 AATREX	90 WG	1.0	LB A/A	1.11	LB/A	SPRING A	0	33	0	0	0	99
14 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	% V/V	SPRING A						
15 BASIS	75 WG	0.023	LB A/A	0.49	OZ/A	SPRING A	0	58	0	33	0	80
15 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	% V/V	SPRING A						
16 NONTREATED							0	0	0	0	0	0
LSD							0	14	0	26	0	20
P							1.0	0.01	1.0	0.01	1.0	0.01

1. PROTOCOL: SIU/BGY+RFK.

2. RATING DATES:

14 DA SPRING, AND 28 DA SPRING ON APR-14-00, AND APR-28-00, RESPECTIVELY.