

# North Carolina State University

## Henbit Control with Non-Selective Herbicides

Trial ID: 01-D12 Study Dir.: Travis Gannon and Jason Hinton  
Location: NC DOT Wake Cty Investigator: Fred Yelverton

### GENERAL TRIAL INFORMATION

**Study Director:** Travis Gannon and Jason Hinton **Title:** Research Technician  
**Affiliation:** North Carolina State University  
**Postal Code:** 27695  
**Investigator:** Fred Yelverton **Title:** Professor  
**Affiliation:** North Carolina State University  
**Postal Code:** 27695

### TRIAL LOCATION

**City:** Raleigh **Trial Status:** Completed  
**State/Prov.:** NC  
**Postal Code:** 27695 **Initiation Date:** 03-27-01  
**Country:** USA

### COOPERATOR/LANDOWNER

**Cooperator:** NC DOT

**Conducted Under GLP (Y/N):** N

**Conducted Under GEP (Y/N):** N

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	LAMAM	henbit	Lamium amplexicaule

**Crop 1:** N/A

### SITE AND DESIGN

**Plot Width, Unit:** 5 FT **Plot Length, Unit:** 10 FT **Reps:** 4  
**Study Design:** RANDOMIZED COMPLETE BLOCK

### APPLICATION DESCRIPTION

	A
<b>Application Date:</b>	03-27-01
<b>Time of Day:</b>	4:30-5PM
<b>Application Method:</b>	SPRAY
<b>Application Timing:</b>	POST
<b>Applic. Placement:</b>	FOLIAR
<b>Air Temp., Unit:</b>	50.1 F
<b>% Relative Humidity:</b>	41
<b>Wind Velocity, Unit:</b>	0.7 MPH
<b>Dew Presence (Y/N):</b>	N
<b>Water Hardness:</b>	N/A
<b>Soil Temp., Unit:</b>	52 F
<b>Soil Moisture:</b>	GOOD
<b>% Cloud Cover:</b>	0

### CROP STAGE AT EACH APPLICATION

	A
<b>Crop 1 Code, Stage:</b>	N/A

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### WEED STAGE AT EACH APPLICATION

	<b>A</b>
<b>Weed 1 Code, Stage:</b>	LAMAM E. FLOWER
<b>Stage Scale:</b>	4-6' HT
<b>Density, Unit:</b>	2-10 FT <sup>2</sup>

### APPLICATION EQUIPMENT

	<b>A</b>
<b>Appl. Equipment:</b>	CO2 SPRAY
<b>Operating Pressure:</b>	42
<b>Nozzle Type:</b>	FLAT FAN
<b>Nozzle Size:</b>	8003 XR
<b>Nozzle Spacing, Unit:</b>	10 INCH
<b>Nozzles/Row:</b>	4
<b>Boom Length, Unit:</b>	40 INCH
<b>Boom Height, Unit:</b>	10 INCH
<b>Ground Speed, Unit:</b>	3 MPH
<b>Carrier:</b>	WATER
<b>Spray Volume, Unit:</b>	100 GPA
<b>Propellant:</b>	COMP. CO2



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					LAMAM	LAMAM	LAMAM	LAMAM		
					CONTROL	CONTROL	CONTROL	CONTROL		
					%	%	%	%		
					04-09-01	04-24-01	05-04-01	05-10-01		
					13 DAT	28 DAT	38 DAT	44 DAT		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code				
1	MON 78365	66.6	WG	6.0 LB AE/A	POST	A	98.3 b	100.0 a	100.0 a	100.0 a
2	MON 78567	1.7	L	6.0 LB AE/A	POST	A	100.0 a	100.0 a	100.0 a	100.0 a
3	Roundup ProDry	64.9	WG	6.0 LB AE/A	POST	A	100.0 a	100.0 a	100.0 a	100.0 a
4	Roundup ProDry Scythe	64.9 1	WG EC	6.0 LB AE/A 12.0 QT/A	POST POST	A A	100.0 a	100.0 a	100.0 a	100.0 a
5	Nontreated						0.0 c	0.0 b	0.0 b	0.0 b
LSD (P=.05)					1.53	0.00	0.00	0.00		
Standard Deviation					0.99	0.00	0.00	0.00		
CV					1.24	0.0	0.0	0.0		
Bartlett's X2					0.0	0.0	0.0	0.0		
P(Bartlett's X2)					0.00*	0.00*	0.00*	0.00*		
Replicate F					1.000	0.000	0.000	0.000		
Replicate Prob(F)					0.4262	1.0000	1.0000	1.0000		
Treatment F					8066.898	0.000	0.000	0.000		
Treatment Prob(F)					0.0001	1.0000	1.0000	1.0000		

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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### Trial Comments

3-27-01 - plots were sprayed twice at 50 gpa to achieve total spray volume of 100 gpa; trial area was on a roadside

4-20-01 - trial area was scalped down to 0.5 inch - not rated

5-17-01 - ratings discontinued due to henbit dying out