

North Carolina State University

Henbit Control in Dormant Bermudagrass with Touchdown Pro Alone and in Combination with Reward

Trial ID: 01-D13

Study Dir.: Travis Gannon and Jason Hinton

Location: NCSU Faculty Club

Investigator: Fred Yelverton

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	LAMAM
Stage Scale:	E. FLOWER
Density, Unit:	1-6 FT ²

APPLICATION EQUIPMENT

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

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Weed Code		LAMAM	LAMAM	LAMAM	LAMAM	LAMAM		
Crop Code								
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit		%	%	%	%	%		
Rating Date		03-28-01	03-29-01	03-30-01	04-03-01	04-09-01		
Trt-Eval Interval		1 DAT	2 DAT	3 DAT	7 DAT	13 DAT		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	
1	Touchdown Pro	L		16 OZ/A	POST	A		
							0.0 a 0.0 a 0.0 b 0.0 c 5.0 cd	
2	Touchdown Pro	L		32 OZ/A	POST	A		
							0.0 a 0.0 a 1.3 b 2.5 c 10.0 bcd	
3	Touchdown Pro	L		64 OZ/A	POST	A		
							0.0 a 0.0 a 0.0 b 0.0 c 21.3 bc	
4	Reward	L		1 PT/A	POST	A		
							0.0 a 0.0 a 18.8 a 83.8 a 96.3 a	
5	Touchdown Pro Reward	L L		32 OZ/A 1 PT/A	POST POST	A A		
							0.0 a 0.0 a 6.3 b 72.5 a 91.3 a	
6	Touchdown Pro Reward	L L		32 OZ/A 0.5 PT/A	POST POST	A A		
							0.0 a 0.0 a 3.8 b 23.8 b 23.8 b	
7	Touchdown Pro Reward	L L		32 OZ/A 0.333 PT/A	POST POST	A A		
							0.0 a 0.0 a 3.8 b 11.3 c 6.3 bcd	
8	Roundup Pro	L		16 OZ/A	POST	A		
							0.0 a 0.0 a 0.0 b 0.0 c 10.0 bcd	
9	Roundup Pro	L		32 OZ/A	POST	A		
							0.0 a 0.0 a 0.0 b 0.0 c 16.3 bcd	
10	Roundup Pro	L		64 OZ/A	POST	A		
							0.0 a 0.0 a 0.0 b 0.0 c 21.3 bc	
11	Nontreated							
							0.0 a 0.0 a 0.0 b 0.0 c 0.0 d	
LSD (P=.05)				0.00	0.00	7.97	11.56	15.42
Standard Deviation				0.00	0.00	5.52	8.01	10.68
CV				0.0	0.0	179.98	45.45	38.99
Bartlett's X2				0.0	0.0	8.285	12.758	34.021
P(Bartlett's X2)				0.00*	0.00*	0.082	0.013*	0.001*
Replicate F				0.000	0.000	0.317	2.515	1.347
Replicate Prob(F)				1.0000	1.0000	0.8131	0.0772	0.2778
Treatment F				0.000	0.000	4.155	59.631	39.769
Treatment Prob(F)				1.0000	1.0000	0.0012	0.0001	0.0001

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

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				LAMAM	LAMAM	LAMAM	CYNDA	CYNDA
				CONTROL	CONTROL	CONTROL	GREENUP	GREENUP
				%	%	%	%	%
				04-20-01	04-24-01	05-04-01	04-09-01	04-20-01
				24 DAT	28 DAT	38 DAT	13 DAT	24 DAT
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	
1	Touchdown Pro	L		16 OZ/A	POST	A		
								8.8 d 7.5 bc 30.0 bcd 7.5 bc 72.5 ab
2	Touchdown Pro	L		32 OZ/A	POST	A		
								20.0 d 8.8 bc 33.8 bcd 5.0 c 72.5 ab
3	Touchdown Pro	L		64 OZ/A	POST	A		
								55.0 bc 67.5 a 90.0 a 3.8 c 50.0 bcd
4	Reward	L		1 PT/A	POST	A		
								83.8 ab 88.8 a 73.8 a 16.3 ab 71.3 ab
5	Touchdown Pro Reward	L L		32 OZ/A 1 PT/A	POST POST	A A		
								86.3 a 87.5 a 62.5 ab 21.3 a 65.0 abc
6	Touchdown Pro Reward	L L		32 OZ/A 0.5 PT/A	POST POST	A A		
								25.0 cd 23.8 bc 5.0 cd 7.5 bc 68.8 abc
7	Touchdown Pro Reward	L L		32 OZ/A 0.333 PT/A	POST POST	A A		
								20.0 d 5.0 bc 15.0 cd 10.0 bc 71.3 ab
8	Roundup Pro	L		16 OZ/A	POST	A		
								10.0 d 3.8 bc 7.5 cd 10.0 bc 77.5 a
9	Roundup Pro	L		32 OZ/A	POST	A		
								26.3 cd 36.3 b 37.5 bc 5.0 c 51.3 bcd
10	Roundup Pro	L		64 OZ/A	POST	A		
								61.3 ab 87.5 a 88.8 a 3.8 c 35.0 d
11	Nontreated							
								0.0 d 0.0 c 0.0 d 8.8 bc 45.0 cd
LSD (P=.05)				28.59	29.38	30.35	8.49	22.78
Standard Deviation				19.80	20.35	21.02	5.88	15.78
CV				54.97	53.78	52.11	65.51	25.52
Bartlett's X2				21.966	40.29	26.156	16.146	12.897
P(Bartlett's X2)				0.009*	0.001*	0.002*	0.064	0.23
Replicate F				3.425	1.344	2.432	1.506	0.310
Replicate Prob(F)				0.0296	0.2787	0.0844	0.2331	0.8177
Treatment F				9.431	13.565	10.113	3.427	3.155
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0043	0.0071

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Weed Code				CYNDA GREENUP %	CYNDA GREENUP %	CYNDA GREENUP %	
Crop Code				04-24-01	05-04-01	05-10-01	
Rating Data Type				28 DAT	38 DAT	44 DAT	
Rating Unit							
Rating Date							
Trt-Eval Interval							
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code
1	Touchdown Pro	L		16 OZ/A	POST	A	81.3 a 85.0 a 88.8 ab
2	Touchdown Pro	L		32 OZ/A	POST	A	86.3 a 87.5 a 91.3 a
3	Touchdown Pro	L		64 OZ/A	POST	A	77.5 a 85.0 a 78.8 b
4	Reward	L		1 PT/A	POST	A	85.0 a 87.5 a 88.8 ab
5	Touchdown Pro Reward	L L		32 OZ/A 1 PT/A	POST POST	A A	83.8 a 88.8 a 87.5 ab
6	Touchdown Pro Reward	L L		32 OZ/A 0.5 PT/A	POST POST	A A	86.3 a 85.0 a 88.8 ab
7	Touchdown Pro Reward	L L		32 OZ/A 0.333 PT/A	POST POST	A A	86.3 a 87.5 a 88.8 ab
8	Roundup Pro	L		16 OZ/A	POST	A	81.3 a 81.3 a 86.3 ab
9	Roundup Pro	L		32 OZ/A	POST	A	78.8 a 78.8 ab 85.0 ab
10	Roundup Pro	L		64 OZ/A	POST	A	71.3 a 77.5 ab 82.5 ab
11	Nontreated						48.8 b 66.3 b 78.8 b
LSD (P=.05)				13.26	12.56	8.60	
Standard Deviation				9.18	8.70	5.95	
CV				11.66	10.52	6.93	
Bartlett's X2				29.02	19.614	10.185	
P(Bartlett's X2)				0.001*	0.033*	0.424	
Replicate F				1.643	0.460	0.812	
Replicate Prob(F)				0.2004	0.7120	0.4973	
Treatment F				5.710	2.309	2.013	
Treatment Prob(F)				0.0001	0.0374	0.0678	

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Trial Comments

3-27-01 - plots were sprayed twice at 50 gpa to achieve 100 gpa

3-27-01 - mix touchdown pro with reward, shake for 15 sec - no compatability problems present

4-24-01 - henbit beginning to fade out, difficult to rate