

North Carolina State University

Catsear Dandelion Control in Utility Turf

Trial ID: 03-D18
Location: Sandhills Station

Study Dir.: Travis Gannon
Investigator: Fred Yelverton

APPLICATION EQUIPMENT

	A
Appl. Equipment:	CO2 SPRAY
Operating Pressure:	25 PSI
Nozzle Type:	FLAT FAN
Nozzle Size:	VS8002XR
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:	32.5 GPA
Propellant:	COMP CO2

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Weed Code										HRYRA	HRYRA	HRYRA	HRYRA	
Rating Data Type										CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit										%	%	%	%	
Rating Date										8-19-03	8-25-03	9-2-03	9-10-03	
Trt-Eval Interval										7 DA-A	13 DA-A	21 DA-A	29 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume				
1	Flazasulfuron X-77	25	DG L	3	oz/a % v/v			AUG 12 A	A		22.5 bc	38.8 cd	80.0 d	76.3 ab
2	Flazasulfuron X-77	25	DG L	6	oz/a % v/v			AUG 12 A	A		22.5 bc	65.0 b	93.8 ab	92.5 a
3	Flazasulfuron X-77	25	DG L	3	oz/a % v/v			AUG 12 A	A		35.0 ab	71.3 ab	92.5 ab	90.0 a
	MSMA	6.6	L	2	qt/a			AUG 12 A						
4	Flazasulfuron X-77	25	DG L	3	oz/a % v/v			AUG 12 A	A		21.3 bc	42.5 c	85.0 bcd	90.0 a
	Roundup Pro		L	1	pt/a			AUG 12 A						
5	Flazasulfuron X-77	25	DG L	3	oz/a % v/v			AUG 12 A	A		22.5 bc	33.8 cd	81.3 cd	91.3 a
	Banvel	4	EC	1	pt/a			AUG 12 A						
6	Oust X-77	75	WG L	0.5	oz/a % v/v			AUG 12 A	A		13.8 cd	26.3 cd	16.3 e	55.0 bc
7	Oust X-77	75	WG L	1	oz/a % v/v			AUG 12 A	A		11.3 cd	31.3 cd	20.0 e	38.8 c
8	Princep X-77	4	L	2	lb ai/a % v/v			AUG 12 A	A		30.0 bc	66.3 ab	95.0 a	93.8 a
9	AAtrex X-77	4	L	2	lb ai/a % v/v			AUG 12 A	A		50.0 a	82.5 a	93.8 ab	95.0 a
10	Weedar 64 X-77		L	1	pt/a % v/v			AUG 12 A	A		33.8 ab	61.3 b	87.5 a-d	95.0 a
11	Weedar 64 X-77		L	1.5	pt/a % v/v			AUG 12 A	A		23.8 bc	25.0 d	91.3 ab	91.3 a
12	Weedar 64 X-77		L	2	pt/a % v/v			AUG 12 A	A		17.5 bcd	32.5 cd	90.0 abc	93.8 a
13	Nontreated										0.0 d	0.0 e	0.0 f	7.5 d
LSD (P=.05)											19.79	17.15	9.11	28.41
Standard Deviation											13.85	12.00	6.37	19.88
CV											59.27	27.07	8.94	25.59
Grand Mean											23.37	44.33	71.25	77.69
Bartlett's X2											21.697	12.644	10.824	63.394
P(Bartlett's X2)											0.027*	0.317	0.288	0.001*
Replicate F											2.677	2.373	1.086	1.210
Replicate Prob(F)											0.0616	0.0865	0.3676	0.3201
Treatment F											3.169	15.050	116.076	7.561
Treatment Prob(F)											0.0036	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										HRYRA	DIGIS	
Rating Data Type										CONTROL	CONTROL	
Rating Unit										%	%	
Rating Date										9-22-03	9-10-03	
Trt-Eval Interval										41 DA-A	29 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume		
1	Flazasulfuron X-77	25	DG L	3	oz/a % v/v			AUG 12 A	A		76.3 bc	75.0 ab
2	Flazasulfuron X-77	25	DG L	6	oz/a % v/v			AUG 12 A	A		92.5 ab	73.8 ab
3	Flazasulfuron X-77	25	DG L	3	oz/a % v/v			AUG 12 A	A		91.3 ab	46.3 bc
	MSMA	6.6	L	2	qt/a			AUG 12 A	A			
4	Flazasulfuron X-77	25	DG L	3	oz/a % v/v			AUG 12 A	A		93.8 ab	86.3 a
	Roundup Pro		L	1	pt/a			AUG 12 A	A			
5	Flazasulfuron X-77	25	DG L	3	oz/a % v/v			AUG 12 A	A		88.8 ab	31.3 cd
	Banvel	4	EC	1	pt/a			AUG 12 A	A			
6	Oust X-77	75	WG L	0.5	oz/a % v/v			AUG 12 A	A		62.5 c	7.5 d
7	Oust X-77	75	WG L	1	oz/a % v/v			AUG 12 A	A		78.8 abc	58.8 abc
8	Princep X-77	4	L	2	lb ai/a % v/v			AUG 12 A	A		95.0 a	5.0 d
9	AAtrex X-77	4	L	2	lb ai/a % v/v			AUG 12 A	A		87.5 ab	10.0 d
10	Weedar 64 X-77		L	1	pt/a % v/v			AUG 12 A	A		93.8 ab	0.0 d
11	Weedar 64 X-77		L	1.5	pt/a % v/v			AUG 12 A	A		95.0 a	0.0 d
12	Weedar 64 X-77		L	2	pt/a % v/v			AUG 12 A	A		95.0 a	0.0 d
13	Nontreated										7.5 d	0.0 d
LSD (P=.05)										18.39	33.70	
Standard Deviation										12.87	23.58	
CV										15.82	77.86	
Grand Mean										81.35	30.29	
Bartlett's X2										37.41	16.586	
P(Bartlett's X2)										0.001*	0.035*	
Replicate F										0.809	2.096	
Replicate Prob(F)										0.4971	0.1179	
Treatment F										14.140	7.987	
Treatment Prob(F)										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.

Trial Comments

9-2-03 - Flazasulfuron treated plots are providing 60 - 80% control of large crabgrass.