

North Carolina State University

F8426 2EW and Other Products for Henbit and Wild Garlic Control in Bermudagrass
Utility Turf

Trial ID: 03-D13

Study Dir.: Travis Gannon

Location: Sandhills Station

Investigator: Fred Yelverton

APPLICATION EQUIPMENT

	A
Appl. Equipment:	CO2 SPRAY
Operating Pressure:	30 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

North Carolina State University

F8426 2EW and Other Products for Henbit and Wild Garlic Control in Bermudagrass

Utility Turf

Trial ID: 03-D13
Location: Sandhills Station

Study Dir.: Travis Gannon
Investigator: Fred Yelverton

											LAMAM	LAMAM	LAMAM	ALLVI				
											CONTROL	CONTROL	CONTROL	CONTROL				
											%	%	%	%				
											3-10-03	3-17-03	3-24-03	3-10-03				
											6 DA-A	13 DA-A	20 DA-A	6 DA-A				
Trt	Treatment	Form	Form	Rate	Rate	Product	Product	Grow	Appl	Spray								
No.	Name	Conc	Type	Unit	Unit	Rate	Rate	Stg	Code	Volume								
1	F8426 X-77	2	EW	1.16	fl oz/a			MARCH 4	A		3.8	ab	8.8	b-f	22.5	a	5.0	a-e
			L	0.25	% v/v			MARCH 4	A									
2	F8426 X-77	2	EW	1.84	fl oz/a			MARCH 4	A		3.8	ab	13.8	abc	23.8	a	3.8	b-e
			L	0.25	% v/v			MARCH 4	A									
3	F8426 X-77	2	EW	2.33	fl oz/a			MARCH 4	A		8.8	a	16.3	ab	23.8	a	6.3	a-d
			L	0.25	% v/v			MARCH 4	A									
4	F8426 Trimec Classic X-77	2	EW	1.16	fl oz/a			MARCH 4	A		3.8	ab	11.3	b-e	27.5	a	7.5	abc
		3.32	L	2.5	pt/a			MARCH 4	A									
			L	0.25	% v/v			MARCH 4	A									
5	F8426 Horsepower X-77	2	EW	1.16	fl oz/a			MARCH 4	A		5.0	ab	11.3	b-e	22.5	a	7.5	abc
		4.56	L	28	fl oz/a			MARCH 4	A									
			L	0.25	% v/v			MARCH 4	A									
6	F8426 Chaser II Amine X-77	2	EW	1.16	fl oz/a			MARCH 4	A		5.0	ab	10.0	b-f	20.0	a	10.0	a
		3.85	EC	2.5	pt/a			MARCH 4	A									
			L	0.25	% v/v			MARCH 4	A									
7	F8426 Turfion Ester X-77	2	EW	1.16	fl oz/a			MARCH 4	A		3.8	ab	23.8	a	26.3	a	3.8	b-e
		4.0	EC	1.0	pt/a			MARCH 4	A									
			L	0.25	% v/v			MARCH 4	A									
8	Trimec Classic	3.32	L	4.0	pt/a			MARCH 4	A		5.0	ab	8.8	b-f	16.3	a	2.5	cde
9	Horsepower	4.56	L	3.0	pt/a			MARCH 4	A		5.0	ab	7.5	b-f	11.3	a	3.8	b-e
10	Chaser II Amine	3.85	EC	3.0	pt/a			MARCH 4	A		5.0	ab	5.0	c-f	17.5	a	8.8	ab
11	Turfion Ester	4.0	EC	2.0	pt/a			MARCH 4	A		5.0	ab	12.5	bcd	23.8	a	3.8	b-e
12	Manage X-77	75	WG	1.33	oz/a			MARCH 4	A		0.0	b	1.3	ef	11.3	a	0.0	e
			L	0.25	% v/v			MARCH 4	A									
13	TranXit X-77	25	DF	2	oz/a			MARCH 4	A		0.0	b	2.5	def	20.0	a	0.0	e
			L	0.25	% v/v			MARCH 4	A									
14	Sulfosulfuron X-77	75	WG	0.12	lb ai/a			MARCH 4	A		0.0	b	1.3	ef	16.3	a	1.3	de
			L	0.25	% v/v			MARCH 4	A									
15	Monument X-77	75	WG	12.5	g ai/a			MARCH 4	A		0.0	b	1.3	ef	26.3	a	1.3	de
			L	0.25	% v/v			MARCH 4	A									
16	Flazasulfuron X-77	25	WG	2.86	oz/a			MARCH 4	A		0.0	b	1.3	ef	21.3	a	0.0	e
			L	0.25	% v/v			MARCH 4	A									
17	Flazasulfuron X-77	25	WG	0.5	oz/a			MARCH 4	A		0.0	b	1.3	ef	23.8	a	1.3	de
			L	0.25	% v/v			MARCH 4	A									
18	Revolver X-77	0.19	L	48.5	g ai/a			MARCH 4	A		0.0	b	0.0	f	16.3	a	0.0	e
			L	0.25	% v/v			MARCH 4	A									
19	Manor X-77	60	DF	1	oz/a			MARCH 4	A		0.0	b	1.3	ef	21.3	a	0.0	e
			L	0.25	% v/v			MARCH 4	A									
20	Manor X-77	60	DF	0.5	oz/a			MARCH 4	A		0.0	b	1.3	ef	20.0	a	0.0	e
			L	0.25	% v/v			MARCH 4	A									
21	Manor X-77	60	DF	0.1	oz/a			MARCH 4	A		0.0	b	0.0	f	18.8	a	0.0	e
			L	0.25	% v/v			MARCH 4	A									
22	Nontreated										0.0	b	0.0	f	0.0	a	0.0	e
LSD (P=.05)											5.70	11.02	14.68	5.70				
Standard Deviation											4.03	7.79	10.38	4.03				
CV											164.89	122.46	53.11	133.93				
Grand Mean											2.44	6.36	19.55	3.01				
Bartlett's X2											1.188	48.549	14.917	11.268				
P(Bartlett's X2)											1.00	0.001*	0.781	0.588				
Replicate F											5.572	7.746	2.243	4.489				
Replicate Prob(F)											0.0019	0.0002	0.0919	0.0064				
Treatment F											1.778	2.783	1.423	2.586				
Treatment Prob(F)											0.0414	0.0009	0.1423	0.0020				

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.

North Carolina State University

F8426 2EW and Other Products for Henbit and Wild Garlic Control in Bermudagrass

Utility Turf

Trial ID: 03-D13
Location: Sandhills Station

Study Dir.: Travis Gannon
Investigator: Fred Yelverton

Weed Code											ALLVI	ALLVI	CYNDA	CYNDA				
Crop Code											CONTROL	CONTROL	GREENUP	GREENUP				
Rating Data Type											%	%	%	%				
Rating Unit											3-17-03	3-24-03	3-10-03	3-17-03				
Rating Date											13 DA-A	20 DA-A	6 DA-A	13 DA-A				
Trt-Eval Interval																		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume								
1	F8426 X-77	2	EW	1.16	fl oz/a			MARCH 4 A			11.3	a-d	10.0	c	0.0	a	0.0	a
			L	0.25	% v/v			MARCH 4 A										
2	F8426 X-77	2	EW	1.84	fl oz/a			MARCH 4 A			16.3	abc	11.3	bc	0.0	a	0.0	a
			L	0.25	% v/v			MARCH 4 A										
3	F8426 X-77	2	EW	2.33	fl oz/a			MARCH 4 A			16.3	abc	10.0	c	0.0	a	0.0	a
			L	0.25	% v/v			MARCH 4 A										
4	F8426 Trimec Classic X-77	2	EW	1.16	fl oz/a	3.32	L	2.5	pt/a		15.0	abc	15.0	bc	0.0	a	0.0	a
			L	0.25	% v/v			MARCH 4 A										
5	F8426 Horsepower X-77	2	EW	1.16	fl oz/a	4.56	L	28	fl oz/a		16.3	abc	27.5	a	0.0	a	0.0	a
			L	0.25	% v/v			MARCH 4 A										
6	F8426 Chaser II Amine X-77	2	EW	1.16	fl oz/a	3.85	EC	2.5	pt/a		17.5	ab	10.0	c	0.0	a	0.0	a
			L	0.25	% v/v			MARCH 4 A										
7	F8426 Turflon Ester X-77	2	EW	1.16	fl oz/a	4.0	EC	1.0	pt/a		17.5	ab	20.0	ab	0.0	a	0.0	a
			L	0.25	% v/v			MARCH 4 A										
8	Trimec Classic	3.32	L	4.0	pt/a			MARCH 4 A			7.5	cde	12.5	bc	0.0	a	0.0	a
9	Horsepower	4.56	L	3.0	pt/a			MARCH 4 A			20.0	a	20.0	ab	0.0	a	0.0	a
10	Chaser II Amine	3.85	EC	3.0	pt/a			MARCH 4 A			8.8	b-e	7.5	cd	0.0	a	0.0	a
11	Turflon Ester	4.0	EC	2.0	pt/a			MARCH 4 A			5.0	de	11.3	bc	0.0	a	0.0	a
12	Manage X-77	75	WG	1.33	oz/a			MARCH 4 A			3.8	de	7.5	cd	0.0	a	0.0	a
			L	0.25	% v/v			MARCH 4 A										
13	TranXit X-77	25	DF	2	oz/a			MARCH 4 A			2.5	de	8.8	cd	0.0	a	0.0	a
			L	0.25	% v/v			MARCH 4 A										
14	Sulfosulfuron X-77	75	WG	0.12	lb ai/a			MARCH 4 A			2.5	de	8.8	cd	0.0	a	0.0	a
			L	0.25	% v/v			MARCH 4 A										
15	Monument X-77	75	WG	12.5	g ai/a			MARCH 4 A			5.0	de	11.3	bc	0.0	a	0.0	a
			L	0.25	% v/v			MARCH 4 A										
16	Flazasulfuron X-77	25	WG	2.86	oz/a			MARCH 4 A			2.5	de	13.8	bc	0.0	a	0.0	a
			L	0.25	% v/v			MARCH 4 A										
17	Flazasulfuron X-77	25	WG	0.5	oz/a			MARCH 4 A			5.0	de	8.8	cd	0.0	a	0.0	a
			L	0.25	% v/v			MARCH 4 A										
18	Revolver X-77	0.19	L	48.5	g ai/a			MARCH 4 A			3.8	de	11.3	bc	0.0	a	0.0	a
			L	0.25	% v/v			MARCH 4 A										
19	Manor X-77	60	DF	1	oz/a			MARCH 4 A			3.8	de	10.0	c	0.0	a	0.0	a
			L	0.25	% v/v			MARCH 4 A										
20	Manor X-77	60	DF	0.5	oz/a			MARCH 4 A			5.0	de	8.8	cd	0.0	a	0.0	a
			L	0.25	% v/v			MARCH 4 A										
21	Manor X-77	60	DF	0.1	oz/a			MARCH 4 A			1.3	e	8.8	cd	0.0	a	0.0	a
			L	0.25	% v/v			MARCH 4 A										
22	Nontreated										0.0	e	0.0	d	0.0	a	0.0	a
LSD (P=.05)											9.42		9.25		0.00		0.00	
Standard Deviation											6.66		6.54		0.00		0.00	
CV											78.68		57.02		0.0		0.0	
Grand Mean											8.47		11.48		0.0		0.0	
Bartlett's X2											36.375		19.276		0.0		0.0	
P(Bartlett's X2)											0.009*		0.439		.		.	
Replicate F											3.934		2.645		0.000		0.000	
Replicate Prob(F)											0.0123		0.0567		1.0000		1.0000	
Treatment F											3.756		2.803		0.000		0.000	
Treatment Prob(F)											0.0001		0.0008		1.0000		1.0000	

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.

North Carolina State University

F8426 2EW and Other Products for Henbit and Wild Garlic Control in Bermudagrass

Utility Turf

Trial ID: 03-D13
Location: Sandhills Station

Study Dir.: Travis Gannon
Investigator: Fred Yelverton

Weed Code											CYNDA	CYNDA	CYNDA	CYNDA
Crop Code											GREENUP	GREENUP	GREENUP	GREENUP
Rating Data Type											%	%	%	%
Rating Unit											3-24-03	4-14-03	4-28-03	5-28-03
Rating Date											20 DA-A	41 DA-A	55 DA-A	85 DA-A
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume				
1	F8426 X-77	2	EW	1.16	fl oz/a			MARCH 4	A		0.0 a	33.8 a	70.0 a	95.0 a
			L	0.25	% v/v			MARCH 4	A					
2	F8426 X-77	2	EW	1.84	fl oz/a			MARCH 4	A		0.0 a	33.8 a	72.5 a	95.0 a
			L	0.25	% v/v			MARCH 4	A					
3	F8426 X-77	2	EW	2.33	fl oz/a			MARCH 4	A		0.0 a	32.5 a	72.5 a	95.0 a
			L	0.25	% v/v			MARCH 4	A					
4	F8426 Trimec Classic X-77	2	EW	1.16	fl oz/a	3.32	L	2.5	pt/a		0.0 a	31.3 a	70.0 a	95.0 a
			L	0.25	% v/v			MARCH 4	A					
5	F8426 Horsepower X-77	2	EW	1.16	fl oz/a	4.56	L	28	fl oz/a		0.0 a	28.8 a	73.8 a	95.0 a
			L	0.25	% v/v			MARCH 4	A					
6	F8426 Chaser II Amine X-77	2	EW	1.16	fl oz/a	3.85	EC	2.5	pt/a		0.0 a	27.5 a	68.8 a	95.0 a
			L	0.25	% v/v			MARCH 4	A					
7	F8426 Turflon Ester X-77	2	EW	1.16	fl oz/a	4.0	EC	1.0	pt/a		0.0 a	27.5 a	72.5 a	95.0 a
			L	0.25	% v/v			MARCH 4	A					
8	Trimec Classic	3.32	L	4.0	pt/a			MARCH 4	A		0.0 a	32.5 a	71.3 a	95.0 a
9	Horsepower	4.56	L	3.0	pt/a			MARCH 4	A		0.0 a	32.5 a	71.3 a	95.0 a
10	Chaser II Amine	3.85	EC	3.0	pt/a			MARCH 4	A		0.0 a	26.3 a	66.3 a	95.0 a
11	Turflon Ester	4.0	EC	2.0	pt/a			MARCH 4	A		0.0 a	25.0 a	66.3 a	95.0 a
12	Manage X-77	75	WG	1.33	oz/a			MARCH 4	A		0.0 a	30.0 a	65.0 a	95.0 a
			L	0.25	% v/v			MARCH 4	A					
13	TranXit X-77	25	DF	2	oz/a			MARCH 4	A		0.0 a	31.3 a	72.5 a	95.0 a
			L	0.25	% v/v			MARCH 4	A					
14	Sulfosulfuron X-77	75	WG	0.12	lb ai/a			MARCH 4	A		0.0 a	30.0 a	71.3 a	95.0 a
			L	0.25	% v/v			MARCH 4	A					
15	Monument X-77	75	WG	12.5	g ai/a			MARCH 4	A		0.0 a	31.3 a	70.0 a	95.0 a
			L	0.25	% v/v			MARCH 4	A					
16	Flazasulfuron X-77	25	WG	2.86	oz/a			MARCH 4	A		0.0 a	40.0 a	71.3 a	95.0 a
			L	0.25	% v/v			MARCH 4	A					
17	Flazasulfuron X-77	25	WG	0.5	oz/a			MARCH 4	A		0.0 a	33.8 a	70.0 a	95.0 a
			L	0.25	% v/v			MARCH 4	A					
18	Revolver X-77	0.19	L	48.5	g ai/a			MARCH 4	A		0.0 a	33.8 a	72.5 a	95.0 a
			L	0.25	% v/v			MARCH 4	A					
19	Manor X-77	60	DF	1	oz/a			MARCH 4	A		0.0 a	28.8 a	72.5 a	95.0 a
			L	0.25	% v/v			MARCH 4	A					
20	Manor X-77	60	DF	0.5	oz/a			MARCH 4	A		0.0 a	31.3 a	71.3 a	95.0 a
			L	0.25	% v/v			MARCH 4	A					
21	Manor X-77	60	DF	0.1	oz/a			MARCH 4	A		0.0 a	35.0 a	73.8 a	95.0 a
			L	0.25	% v/v			MARCH 4	A					
22	Nontreated										0.0 a	26.3 a	72.5 a	95.0 a
LSD (P=.05)											0.00	8.07	6.76	0.00
Standard Deviation											0.00	5.71	4.78	0.00
CV											0.0	18.39	6.76	0.0
Grand Mean											0.0	31.02	70.8	95.0
Bartlett's X2											0.0	18.997	24.177	0.0
P(Bartlett's X2)											.	0.522	0.285	.
Replicate F											0.000	2.548	20.718	0.000
Replicate Prob(F)											1.0000	0.0637	0.0001	1.0000
Treatment F											0.000	1.474	1.003	0.000
Treatment Prob(F)											1.0000	0.1201	0.4727	1.0000

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.

North Carolina State University

F8426 2EW and Other Products for Henbit and Wild Garlic Control in Bermudagrass
Utility Turf

Trial ID: 03-D13

Study Dir.: Travis Gannon

Location: Sandhills Station

Investigator: Fred Yelverton

Trial Comments

3-4-03 - Trial initiated, majority of henbit is in early flower stage. Select plots in replicate one have sparse henbit populations.

3-10-03 - Trial area remarked. Evaluated trial for henbit control, wild garlic control and bermudagrass greenup.

3-17-03 - Trial evaluated for henbit and wild garlic control and bermudagrass greenup.

3-24-03 - Trial evaluated for henbit and wild garlic control and bermudagrass greenup. Select treatments have injured henbit and wild garlic by twisting and stunting but have not completely controlled populations.

3-31-03 - Trial area was scalped to one inch, unable to evaluate for henbit and wild garlic control and bermudagrass greenup.

4-7-03 - Trial area visited but raining, unable to evaluate.

4-14-03 - Trial area was evaluated for bermudagrass greenup. Unable to evaluate trial for henbit and wild garlic control, stand is no longer present.

~~4-28-03 - Trial area was evaluated for bermudagrass greenup.~~