

North Carolina State University

Perennial Ryegrass Tolerance to Poa Annua Control Treatments

Trial ID: 01-D54

Study Dir.: Travis Gannon

Location: NCSU Field Lab

Investigator: Fred Yelverton

	H	I	J	K	L	M
Application Date:	11-14-01	11-28-01	11-28-01	11-28-01	12-19-01	12-19-01
Time of Day:	5-5:30PM	4-5 PM	4-5 PM	4-5 PM	4-5 PM	4-5 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	6 WAO	4 WAMOW	L. NOV	10 WAO	L NOV+3WK	14 WAO
Applic. Placement:	FOL/SOIL	FOL/SOIL	FOL/SOIL	FOL/SOIL	FOL/SOIL	FOL/SOIL
Air Temp., Unit:	60.6 F	74.4 F	74.4 F	74.4 F	62.6 F	62.6 F
% Relative Humidity:	61	61	61	61	48	48
Wind Velocity, Unit:	0.5 MPH	0.9 MPH	0.9 MPH	0.9 MPH	2.3 MPH	2.3 MPH
Dew Presence (Y/N):	N	N	N	N	N	N
Soil Temp., Unit:	58 F	62 F	62 F	62 F	54 F	54 F
Soil Moisture:	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD
% Cloud Cover:	10	0	0	0	20	20

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	CYNDA MOWED	CYNDA MOWED	CYNDA MOWED	CYNDA
Height, Unit:	0.75 INCH	0.75 INCH	0.75 INCH	
Crop 2 Code, Stage:	LOLPE PRE	LOLPE PRE	LOLPE PRE	LOLPE PRE
Stage Scale:				
Height, Unit:				
	E	F	G	H
Crop 1 Code, Stage:	CYNDA	CYNDA	CYNDA	CYNDA
Height, Unit:				
Crop 2 Code, Stage:	LOLPE PRE	LOLPE SEEDLING	LOLPE MOWED	LOLPE MOWED
Stage Scale:		2-3 LEAF	2-3 LEAF	2LF-1TILL
Height, Unit:		1 INCH	1 INCH	0.75 INCH
	I	J	K	L
Crop 1 Code, Stage:	CYNDA	CYNDA	CYNDA	CYNDA
Height, Unit:				
Crop 2 Code, Stage:	LOLPE MOWED	LOLPE MOWED	LOLPE MOWED	LOLPE MOWED
Stage Scale:	2LF-1TILL	3LF-1TILL	3LF-1TILL	3LF-1TILL
Height, Unit:	0.75 INCH	0.75 INCH	0.5 INCH	0.5 INCH
	M			
Crop 1 Code, Stage:	CYNDA			
Height, Unit:				
Crop 2 Code, Stage:	LOLPE			
Stage Scale:				
Height, Unit:				

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Crop Code									LOLPE	LOLPE	LOLPE	
Rating Data Type									COVER	COVER	COVER	
Rating Unit									%	%	%	
Rating Date									10-31-01	11-28-01	12-19-01	
Trt-Eval Interval									98 DA-A	126 DA-A	147 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
1	Barricade	65	WG	0.38	LB A/A			10WBO	A	15.0 a	66.3 abc	73.8 abc
2	Barricade	65	WG	0.5	LB A/A			10WBO	A	15.0 a	66.3 abc	71.3 a-d
3	Barricade	65	WG	0.75	LB A/A			10WBO	A	15.0 a	67.5 abc	72.5 a-d
4	Barricade	65	WG	1.0	LB A/A			10WBO	A	12.5 bc	58.8 cd	68.8 cde
5	Barricade	65	WG	0.5	LB A/A			10WBO	A	15.0 a	52.5 d	58.8 g
	Primo Maxx		L	0.5	OZ/1000 FT2			1DAMOW	F			
	Primo Maxx		L	0.5	OZ/1000 FT2			4WAMOW	I			
6	Barricade	65	WG	0.38	LB A/A			8WBO	B	15.0 a	65.0 bc	71.3 a-d
7	Barricade	65	WG	0.5	LB A/A			8WBO	B	15.0 a	65.0 bc	71.3 a-d
8	Barricade	65	WG	0.75	LB A/A			8WBO	B	12.5 bc	60.0 cd	68.8 cde
9	Barricade	65	WG	1.0	LB A/A			8WBO	B	11.3 c	51.3 d	62.5 fg
10	Barricade	65	WG	0.5	LB A/A			8WBO	B	15.0 a	53.8 d	63.8 efg
	Primo Maxx		L	0.5	OZ/1000 FT2			1DAMOW	F			
	Primo Maxx		L	0.5	OZ/1000 FT2			4WAMOW	I			
11	Barricade	65	WG	0.38	LB A/A			8WBO	B	15.0 a	72.5 ab	70.0 bcd
	Barricade	65	WG	0.38	LB A/A			4WAO	G			
12	Barricade	65	WG	0.38	LB A/A			8WBO	B	15.0 a	72.5 ab	73.8 abc
	Barricade	65	WG	0.38	LB A/A			6WAO	H			
13	Ronstar	2	G	2.0	LB A/A			8WBO	B	15.0 a	72.5 ab	70.0 bcd
14	Pendimethalin	60	WG	2.0	LB A/A			8WBO	B	15.0 a	73.8 ab	75.0 ab
15	Dimension	40	WP	0.5	LB A/A			8WBO	B	15.0 a	75.0 a	75.0 ab
16	Primo Maxx		L	0.5	OZ/1000 FT2			1DAMOW	F	15.0 a	67.5 abc	67.5 def
	Primo Maxx		L	0.5	OZ/1000 FT2			4WAMOW	I			
17	Trimmit	2	SC	16	OZ/A			6WAO	H	15.0 a	70.0 ab	71.3 a-d
	Trimmit	2	SC	16	OZ/A			10WAO	K			
	Trimmit	2	SC	16	OZ/A			14WAO	M			
18	Dimension	40	WP	0.5	LB A/A			6WBO	C	15.0 a	75.0 a	75.0 ab

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Crop Code								LOLPE	LOLPE	LOLPE	
Rating Data Type								COVER	COVER	COVER	
Rating Unit								%	%	%	
Rating Date								01-17-02	02-13-02	03-14-02	
Trt-Eval Interval								176 DA-A	203 DA-A	232 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
1	Barricade	65	WG	0.38 LB A/A			10WBO	A	67.5 abc	73.8 ab	73.8 a-d
2	Barricade	65	WG	0.5 LB A/A			10WBO	A	57.5 cde	68.8 a-d	70.0 a-f
3	Barricade	65	WG	0.75 LB A/A			10WBO	A	52.5 def	70.0 abc	70.0 a-f
4	Barricade	65	WG	1.0 LB A/A			10WBO	A	42.5 f	55.0 e	58.8 g
5	Barricade Primo Maxx Primo Maxx	65	WG L L	0.5 LB A/A 0.5 OZ/1000 FT2 0.5 OZ/1000 FT2			10WBO 1DAMOW 4WAMOW	A F I	61.3 b-e	68.8 a-d	66.3 c-g
6	Barricade	65	WG	0.38 LB A/A			8WBO	B	61.3 b-e	68.8 a-d	66.3 c-g
7	Barricade	65	WG	0.5 LB A/A			8WBO	B	60.0 b-e	67.5 a-d	67.5 b-g
8	Barricade	65	WG	0.75 LB A/A			8WBO	B	48.8 ef	60.0 de	62.5 fg
9	Barricade	65	WG	1.0 LB A/A			8WBO	B	21.3 g	33.8 f	46.3 h
10	Barricade Primo Maxx Primo Maxx	65	WG L L	0.5 LB A/A 0.5 OZ/1000 FT2 0.5 OZ/1000 FT2			8WBO 1DAMOW 4WAMOW	B F I	70.0 abc	72.5 ab	71.3 a-f
11	Barricade Barricade	65	WG WG	0.38 LB A/A 0.38 LB A/A			8WBO 4WAO	B G	57.5 cde	65.0 bcd	63.8 efg
12	Barricade Barricade	65	WG WG	0.38 LB A/A 0.38 LB A/A			8WBO 6WAO	B H	68.8 abc	71.3 ab	70.0 a-f
13	Ronstar	2	G	2.0 LB A/A			8WBO	B	65.0 a-d	70.0 abc	71.3 a-f
14	Pendimethalin	60	WG	2.0 LB A/A			8WBO	B	72.5 ab	75.0 a	77.5 a
15	Dimension	40	WP	0.5 LB A/A			8WBO	B	68.8 abc	73.8 ab	75.0 abc
16	Primo Maxx Primo Maxx		L L	0.5 OZ/1000 FT2 0.5 OZ/1000 FT2			1DAMOW 4WAMOW	F I	75.0 a	75.0 a	75.0 abc
17	Trimmit Trimmit Trimmit	2	SC SC SC	16 OZ/A 16 OZ/A 16 OZ/A			6WAO 10WAO 14WAO	H K M	60.0 b-e	60.0 de	65.0 d-g
18	Dimension	40	WP	0.5 LB A/A			6WBO	C	72.5 ab	75.0 a	76.3 ab

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Crop Code								LOLPE	TURF	TURF	
Rating Data Type								COVER	QUALITY	QUALITY	
Rating Unit								%	1-9	1-9	
Rating Date								04-09-02	10-31-01	11-28-01	
Trt-Eval Interval								258 DA-A	98 DA-A	126 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
1	Barricade	65	WG	0.38 LB A/A			10WBO	A	93.8 a	7.0 a	7.00 a
2	Barricade	65	WG	0.5 LB A/A			10WBO	A	92.5 ab	7.0 a	6.88 ab
3	Barricade	65	WG	0.75 LB A/A			10WBO	A	88.8 abc	7.0 a	6.88 ab
4	Barricade	65	WG	1.0 LB A/A			10WBO	A	85.0 bcd	7.0 a	6.75 ab
5	Barricade Primo Maxx Primo Maxx	65	WG L L	0.5 LB A/A 0.5 OZ/1000 FT2 0.5 OZ/1000 FT2			10WBO 1DAMOW 4WAMOW	A F I	87.5 a-d	7.0 a	6.25 d
6	Barricade	65	WG	0.38 LB A/A			8WBO	B	88.8 abc	7.0 a	6.75 ab
7	Barricade	65	WG	0.5 LB A/A			8WBO	B	90.0 ab	7.0 a	6.88 ab
8	Barricade	65	WG	0.75 LB A/A			8WBO	B	88.8 abc	7.0 a	6.63 bc
9	Barricade	65	WG	1.0 LB A/A			8WBO	B	80.0 d	7.0 a	6.38 cd
10	Barricade Primo Maxx Primo Maxx	65	WG L L	0.5 LB A/A 0.5 OZ/1000 FT2 0.5 OZ/1000 FT2			8WBO 1DAMOW 4WAMOW	B F I	91.3 ab	7.0 a	6.38 cd
11	Barricade Barricade	65	WG WG	0.38 LB A/A 0.38 LB A/A			8WBO 4WAO	B G	90.0 ab	7.0 a	6.88 ab
12	Barricade Barricade	65	WG WG	0.38 LB A/A 0.38 LB A/A			8WBO 6WAO	B H	95.0 a	7.0 a	7.00 a
13	Ronstar	2	G	2.0 LB A/A			8WBO	B	91.3 ab	7.0 a	7.00 a
14	Pendimethalin	60	WG	2.0 LB A/A			8WBO	B	93.8 a	7.0 a	7.00 a
15	Dimension	40	WP	0.5 LB A/A			8WBO	B	93.8 a	7.0 a	7.00 a
16	Primo Maxx Primo Maxx		L L	0.5 OZ/1000 FT2 0.5 OZ/1000 FT2			1DAMOW 4WAMOW	F I	95.0 a	7.0 a	6.75 ab
17	Trimmit Trimmit Trimmit	2	SC SC SC	16 OZ/A 16 OZ/A 16 OZ/A			6WAO 10WAO 14WAO	H K M	92.5 ab	7.0 a	6.88 ab
18	Dimension	40	WP	0.5 LB A/A			6WBO	C	95.0 a	7.0 a	7.00 a

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									TURF QUALITY	TURF QUALITY	TURF QUALITY	
									1-9	1-9	1-9	
									12-19-01	01-17-02	02-13-02	
									147 DA-A	176 DA-A	203 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
1	Barricade	65	WG	0.38	LB A/A			10WBO	A	7.000 a	6.875 ab	6.938 ab
2	Barricade	65	WG	0.5	LB A/A			10WBO	A	7.000 a	6.625 a-e	6.813 abc
3	Barricade	65	WG	0.75	LB A/A			10WBO	A	7.000 a	6.188 def	6.813 abc
4	Barricade	65	WG	1.0	LB A/A			10WBO	A	6.813 a	5.688 f	6.438 c
5	Barricade Primo Maxx Primo Maxx	65	WG L L	0.5 0.5 0.5	LB A/A OZ/1000 FT2 OZ/1000 FT2			10WBO 1DAMOW 4WAMOW	A F I	6.438 b	6.563 a-e	6.813 abc
6	Barricade	65	WG	0.38	LB A/A			8WBO	B	7.000 a	6.375 b-e	6.813 abc
7	Barricade	65	WG	0.5	LB A/A			8WBO	B	7.000 a	6.500 a-e	6.750 abc
8	Barricade	65	WG	0.75	LB A/A			8WBO	B	6.938 a	6.250 c-f	6.563 bc
9	Barricade	65	WG	1.0	LB A/A			8WBO	B	6.563 b	4.250 g	5.313 d
10	Barricade Primo Maxx Primo Maxx	65	WG L L	0.5 0.5 0.5	LB A/A OZ/1000 FT2 OZ/1000 FT2			8WBO 1DAMOW 4WAMOW	B F I	6.563 b	6.750 a-d	6.875 ab
11	Barricade Barricade	65 65	WG WG	0.38 0.38	LB A/A LB A/A			8WBO 4WAO	B G	6.875 a	6.250 c-f	6.563 bc
12	Barricade Barricade	65 65	WG WG	0.38 0.38	LB A/A LB A/A			8WBO 6WAO	B H	7.000 a	6.688 a-d	6.875 ab
13	Ronstar	2	G	2.0	LB A/A			8WBO	B	7.000 a	6.750 a-d	6.875 ab
14	Pendimethalin	60	WG	2.0	LB A/A			8WBO	B	7.000 a	6.938 ab	6.938 ab
15	Dimension	40	WP	0.5	LB A/A			8WBO	B	7.000 a	7.000 a	7.000 a
16	Primo Maxx Primo Maxx		L L	0.5 0.5	OZ/1000 FT2 OZ/1000 FT2			1DAMOW 4WAMOW	F I	6.938 a	7.000 a	7.000 a
17	Trimmit Trimmit Trimmit	2 2 2	SC SC SC	16 16 16	OZ/A OZ/A OZ/A			6WAO 10WAO 14WAO	H K M	7.000 a	6.063 ef	5.688 d
18	Dimension	40	WP	0.5	LB A/A			6WBO	C	7.000 a	6.938 ab	7.000 a

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Crop Code									TURF	TURF	
Rating Data Type									QUALITY	QUALITY	
Rating Unit									1-9	1-9	
Rating Date									03-14-02	04-09-02	
Trt-Eval Interval									232 DA-A	258 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code		
1	Barricade	65	WG	0.38	LB A/A			10WBO	A	6.750 abc	6.875 a
2	Barricade	65	WG	0.5	LB A/A			10WBO	A	6.813 abc	6.875 a
3	Barricade	65	WG	0.75	LB A/A			10WBO	A	6.875 abc	6.625 ab
4	Barricade	65	WG	1.0	LB A/A			10WBO	A	6.125 d	6.375 bc
5	Barricade Primo Maxx Primo Maxx	65	WG L L	0.5 0.5 0.5	LB A/A OZ/1000 FT2 OZ/1000 FT2			10WBO 1DAMOW 4WAMOW	A F I	6.688 abc	6.563 ab
6	Barricade	65	WG	0.38	LB A/A			8WBO	B	6.875 abc	6.563 ab
7	Barricade	65	WG	0.5	LB A/A			8WBO	B	6.813 abc	6.825 ab
8	Barricade	65	WG	0.75	LB A/A			8WBO	B	6.563 a-d	6.750 ab
9	Barricade	65	WG	1.0	LB A/A			8WBO	B	5.375 e	6.063 c
10	Barricade Primo Maxx Primo Maxx	65	WG L L	0.5 0.5 0.5	LB A/A OZ/1000 FT2 OZ/1000 FT2			8WBO 1DAMOW 4WAMOW	B F I	6.813 abc	6.813 ab
11	Barricade Barricade	65 65	WG WG	0.38 0.38	LB A/A LB A/A			8WBO 4WAO	B G	6.438 cd	6.625 ab
12	Barricade Barricade	65 65	WG WG	0.38 0.38	LB A/A LB A/A			8WBO 6WAO	B H	6.875 abc	7.000 a
13	Ronstar	2	G	2.0	LB A/A			8WBO	B	6.813 abc	6.750 ab
14	Pendimethalin	60	WG	2.0	LB A/A			8WBO	B	6.875 abc	6.938 a
15	Dimension	40	WP	0.5	LB A/A			8WBO	B	6.875 abc	7.000 a
16	Primo Maxx Primo Maxx	L L		0.5 0.5	OZ/1000 FT2 OZ/1000 FT2			1DAMOW 4WAMOW	F I	7.000 a	7.000 a
17	Trimmit Trimmit Trimmit	2 2 2	SC SC SC	16 16 16	OZ/A OZ/A OZ/A			6WAO 10WAO 14WAO	H K M	6.813 abc	6.875 a
18	Dimension	40	WP	0.5	LB A/A			6WBO	C	6.938 ab	7.000 a

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Trial Comments

10-3-01 - Trial area was verticut in two directions with verticutting reels on a triplex mower and broadcast seeded in two directions with rotary spreader at a total rate of 10 lb seed per 1000 ft². Tri Pro Green's Mix Perennial ryegrass was used for overseeding and was comprised of Bayou (39.2%), Envy (19.65%), and Vibrant (38.15%) perennial ryegrass, all with 90% germination.

10-17-01 - Unable to rate trial, limited germination visible and bermudagrass still actively growing.

4-9-02 - Trial completed.