

University of GA Coop Ext Service

Determining Nitrogen Threshold Levels for PolyGraph on Golf Course Fairway Turfgrasses: Seashore Paspalum

Trial ID: Paspalum1

Study Director: Jonathan Bohn

Location: Griffin

Investigator: Clint Waltz

General Trial Information

Study Director: Jonathan Bohn

Title: Technician

Affiliation: UGA-CAES

Investigator: Clint Waltz

Title: Asst. Professor

Affiliation: UGA-CAES

Trial Location

City: Griffin

Trial Status:

ARCHIVED

State/Prov.: GA

Crop Description

Crop 1: PASVA *Paspalum aginatum*

Seashore Paspalum

Variety: Sea Isle

Site and Design

Plot Width, Unit: 6 FT

Plot Length, Unit: 6 FT

Replications: 4

Study Design: Randomized Complete Block

Application Description

	A
Application Date:	7-11-2003
Time of Day:	7:00 pm
Application Method:	Shaker Jar
Application Timing:	Post
Application Placement:	Surface
Applied By:	JB
Air Temperature, Unit:	85.7 F
% Relative Humidity:	50
Wind Velocity, Unit:	5.8 mph
Dew Presence (Y/N):	N
Water Hardness:	-
Soil Temperature, Unit:	84.5 F
Soil Moisture:	Good
% Cloud Cover:	50

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Turfgrasses: Seashore Paspalum

Trial ID: Paspalum1

Study Director: Jonathan Bohn

Location: Griffin

Investigator: Clint Waltz

Crop Code							PASVA	PASVA	PASVA		
Description							Paspalum	Paspalum	Paspalum		
Rating Date							7-24-2003	8-1-2003	8-8-2003		
Rating Data Type							COLOR	COLOR	COLOR		
Rating Unit							1-9	1-9	1-9		
Rated By							JB	JB	JB		
Days After Last Applic.							13	21	28		
Trt-Eval Interval							13 DA-A	21 DA-A	28 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Description	Other Rate	Other Rate Unit	Appl Code				
1	Untreated Check			not treated				6.1 bc	6.3 c	6.1 bc	
2	Ammonium nitrate 33-0-0	33.5	GR		1.5	lb ai/1000 ft2	A	6.4 ab	6.9 a	6.8 a	
3	Polygon 43 Regular	43	GR		1.5	lb ai/1000 ft2	A	6.0 c	6.4 bc	6.5 abc	
4	Polygon 43 Mini	43	GR		2.0	lb ai/1000 ft2	A	6.1 bc	6.8 ab	6.6 ab	
5	Polygon 41 Regular	41	GR		1.5	lb ai/1000 ft2	A	6.0 c	6.3 c	6.0 c	
6	Polygon 41 Mini	41	GR		2.0	lb ai/1000 ft2	A	6.1 bc	6.5 abc	6.8 a	
7	Calcium Nitrate	16	GR		1.5	lb ai/1000 ft2	A	6.5 a	6.8 ab	6.6 ab	
8	Ammonium Sulfate	21	GR		1.5	lb ai/1000 ft2	A	6.4 ab	6.9 a	6.6 ab	
LSD (P=.05)									0.24	0.44	0.49
Standard Deviation									0.16	0.30	0.33
CV									2.58	4.59	5.11

Crop Code							PASVA	PASVA	PASVA		
Description							Paspalum	Paspalum	Paspalum		
Rating Date							8-15-2003	8-22-2003	8-29-2003		
Rating Data Type							COLOR	COLOR	COLOR		
Rating Unit							1-9	1-9	1-9		
Rated By							JB	JB	JB		
Days After Last Applic.							35	42	49		
Trt-Eval Interval							35 DA-A	42 DA-A	49 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Description	Other Rate	Other Rate Unit	Appl Code				
1	Untreated Check			not treated				6.1 c	6.4 ab	6.5 ab	
2	Ammonium nitrate 33-0-0	33.5	GR		1.5	lb ai/1000 ft2	A	6.5 abc	6.5 ab	6.4 ab	
3	Polygon 43 Regular	43	GR		1.5	lb ai/1000 ft2	A	6.6 ab	6.8 ab	6.6 ab	
4	Polygon 43 Mini	43	GR		2.0	lb ai/1000 ft2	A	6.8 a	6.9 a	6.6 ab	
5	Polygon 41 Regular	41	GR		1.5	lb ai/1000 ft2	A	6.4 abc	6.6 ab	6.5 ab	
6	Polygon 41 Mini	41	GR		2.0	lb ai/1000 ft2	A	6.8 a	7.1 a	6.9 a	
7	Calcium Nitrate	16	GR		1.5	lb ai/1000 ft2	A	6.4 abc	6.5 ab	6.3 b	
8	Ammonium Sulfate	21	GR		1.5	lb ai/1000 ft2	A	6.3 bc	6.0 b	6.3 b	
LSD (P=.05)									0.44	0.68	0.51
Standard Deviation									0.30	0.46	0.35
CV									4.58	7.0	5.37

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

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							PASVA	PASVA	PASVA	
							Paspalum	Paspalum	Paspalum	
							9-12-2003	9-30-2003	10-22-2003	
							COLOR	COLOR	COLOR	
							1-9	1-9	1-9	
							JB	FCW	JB	
							63	81	103	
							63 DA-A	81 DA-A	104 DA-A	
Trt	Treatment	Form	Form	Other	Other	Appl				
No.	Name	Conc	Type	Description	Rate	Rate Unit	Code			
1	Untreated Check			not treated				6.3 a	7.0 a	5.6 b
2	Ammonium nitrate 33-0-0	33.5	GR		1.5	lb ai/1000 ft2	A	6.1 a	7.0 a	5.9 ab
3	Polygon 43 Regular	43	GR		1.5	lb ai/1000 ft2	A	6.1 a	7.0 a	6.1 ab
4	Polygon 43 Mini	43	GR		2.0	lb ai/1000 ft2	A	6.0 a	7.0 a	6.1 ab
5	Polygon 41 Regular	41	GR		1.5	lb ai/1000 ft2	A	6.1 a	7.0 a	6.1 ab
6	Polygon 41 Mini	41	GR		2.0	lb ai/1000 ft2	A	6.3 a	7.0 a	6.4 a
7	Calcium Nitrate	16	GR		1.5	lb ai/1000 ft2	A	6.1 a	7.0 a	5.8 ab
8	Ammonium Sulfate	21	GR		1.5	lb ai/1000 ft2	A	6.1 a	7.0 a	5.5 b
LSD (P=.05)								0.33	0.00	0.63
Standard Deviation								0.23	0.00	0.43
CV								3.69	0.0	7.23

							PASVA	PASVA	PASVA	
							Paspalum	Paspalum	Paspalum	
							7-25-2003	8-1-2003	8-8-2003	
							COLOR	COLOR	COLOR	
							1-9	1-9	1-9	
							Color	Color	Color	
							Meter	Meter	Meter	
							14	21	28	
							14 DA-A	21 DA-A	28 DA-A	
Trt	Treatment	Form	Form	Other	Other	Appl				
No.	Name	Conc	Type	Description	Rate	Rate Unit	Code			
1	Untreated Check			not treated				7.2 a	7.8 a	7.6 a
2	Ammonium nitrate 33-0-0	33.5	GR		1.5	lb ai/1000 ft2	A	7.6 a	7.8 a	7.5 a
3	Polygon 43 Regular	43	GR		1.5	lb ai/1000 ft2	A	7.6 a	7.8 a	7.6 a
4	Polygon 43 Mini	43	GR		2.0	lb ai/1000 ft2	A	7.7 a	7.8 a	7.5 a
5	Polygon 41 Regular	41	GR		1.5	lb ai/1000 ft2	A	7.3 a	7.7 a	7.5 a
6	Polygon 41 Mini	41	GR		2.0	lb ai/1000 ft2	A	7.2 a	7.9 a	7.6 a
7	Calcium Nitrate	16	GR		1.5	lb ai/1000 ft2	A	7.7 a	7.8 a	7.4 a
8	Ammonium Sulfate	21	GR		1.5	lb ai/1000 ft2	A	7.6 a	7.7 a	7.4 a
LSD (P=.05)								0.52	0.43	0.38
Standard Deviation								0.36	0.29	0.26
CV								4.74	3.77	3.44

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

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							PASVA	PASVA	PASVA	
							Paspalum	Paspalum	Paspalum	
							8-15-2003	8-22-2003	8-29-2003	
							COLOR	COLOR	COLOR	
							1-9	1-9	1-9	
							Color	Color	Color	
							Meter	Meter	Meter	
							35	42	49	
							35 DA-A	42 DA-A	49 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Description	Other Rate	Other Rate Unit	Appl Code			
1	Untreated Check			not treated				7.7 ab	7.4 b	7.6 bc
2	Ammonium nitrate 33-0-0	33.5	GR		1.5	lb ai/1000 ft2	A	7.6 ab	7.6 ab	7.3 c
3	Polygon 43 Regular	43	GR		1.5	lb ai/1000 ft2	A	7.7 ab	7.5 ab	7.5 bc
4	Polygon 43 Mini	43	GR		2.0	lb ai/1000 ft2	A	7.7 ab	7.8 a	7.7 ab
5	Polygon 41 Regular	41	GR		1.5	lb ai/1000 ft2	A	7.5 b	7.4 b	7.6 bc
6	Polygon 41 Mini	41	GR		2.0	lb ai/1000 ft2	A	7.9 a	7.5 ab	8.0 a
7	Calcium Nitrate	16	GR		1.5	lb ai/1000 ft2	A	7.5 b	7.4 b	7.7 ab
8	Ammonium Sulfate	21	GR		1.5	lb ai/1000 ft2	A	7.5 b	7.3 b	7.7 ab
LSD (P=.05)								0.32	0.33	0.32
Standard Deviation								0.22	0.23	0.22
CV								2.88	3.01	2.84

							PASVA	PASVA	PASVA	
							Paspalum	Paspalum	Paspalum	
							9-12-2003	9-17-2003	10-22-2003	
							COLOR	COLOR	COLOR	
							1-9	1-9	1-9	
							Color	Color	Color	
							Meter	Meter	Meter	
							63	68	103	
							63 DA-A	68 DA-A	103 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Description	Other Rate	Other Rate Unit	Appl Code			
1	Untreated Check			not treated				6.9 a	6.7 a	6.5 ab
2	Ammonium nitrate 33-0-0	33.5	GR		1.5	lb ai/1000 ft2	A	7.1 a	6.9 a	6.6 ab
3	Polygon 43 Regular	43	GR		1.5	lb ai/1000 ft2	A	7.2 a	6.7 a	6.3 ab
4	Polygon 43 Mini	43	GR		2.0	lb ai/1000 ft2	A	7.0 a	6.6 a	6.5 ab
5	Polygon 41 Regular	41	GR		1.5	lb ai/1000 ft2	A	7.0 a	6.7 a	6.5 ab
6	Polygon 41 Mini	41	GR		2.0	lb ai/1000 ft2	A	7.2 a	6.8 a	6.8 a
7	Calcium Nitrate	16	GR		1.5	lb ai/1000 ft2	A	7.2 a	6.9 a	6.5 ab
8	Ammonium Sulfate	21	GR		1.5	lb ai/1000 ft2	A	7.1 a	6.8 a	6.2 b
LSD (P=.05)								0.35	0.36	0.46
Standard Deviation								0.24	0.25	0.31
CV								3.4	3.63	4.84

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