

North Carolina State University

Effects of Fertility Regimes while Growing in Centipedegrass Prior to Harvesting for Sod

Trial ID: 03-D07
Location: Sandhills Station

Study Dir.: Travis Gannon
Investigator: Fred Yelverton

Crop Code	EREOP	EREOP	EREOP	EREOP	EREOP	EREOP
Rating Data Type	ALIVE	ALIVE	ALIVE	ALIVE	ALIVE	ALIVE
Rating Unit	%	%	%	%	%	%
Rating Date	5-28-03	7-9-03	8-6-03	9-2-03	10-6-03	7-20-04
Trt-Eval Interval	315 DA-A	357 DA-A	385 DA-A	412 DA-A	446 DA-A	734 DA-A
Trt Treatment No. Name	Form Conc	Form Type	Rate Unit	Product Rate	Product Unit	Grow Stg Code
1 Mow Sod in February No Nitrogen	30.0 e	87.5 ab	80.0 cd	96.3 abc	83.8 ab	98.8 a
2 Mow Sod in February 1# N/M every 4 weeks	33.8 de	80.0 b	85.0 abc	96.3 abc	86.3 ab	93.8 a
3 Mow Sod in February 1# N/M every 2 weeks	8.8 f	66.3 c	71.3 d	96.3 abc	85.0 ab	87.5 ab
4 Mow Sod in April No Nitrogen	62.5 ab	90.0 ab	83.8 abc	100.0 a	86.3 ab	90.0 ab
5 Mow Sod in April 1# N/M every 4 weeks	68.8 a	91.3 a	87.5 abc	98.8 ab	87.5 a	88.8 ab
6 Mow Sod in April 1# N/M every 2 weeks	52.5 abc	91.3 a	90.0 abc	97.5 abc	87.5 a	82.5 abc
7 Mow Sod in June No Nitrogen		93.8 a	95.0 a	100.0 a	87.5 a	92.5 a
8 Mow Sod in June 1# N/M every 4 weeks		86.3 ab	91.3 abc	96.3 abc	87.5 a	63.8 cd
9 Mow Sod in June 1# N/M every 2 weeks		92.5 a	93.8 ab	98.8 ab	87.5 a	70.0 bc
10 No mowing Sod in February No Nitrogen	35.0 de	85.0 ab	88.8 abc	91.3 a-d	77.5 bc	47.5 d
11 No mowing Sod in February 1# N/M every 4 weeks	45.0 cde	91.3 a	90.0 abc	88.8 cd	72.5 cd	6.3 ef
12 No mowing Sod in February 1# N/M every 2 weeks	6.3 f	50.0 d	42.5 e	46.3 e	37.5 f	2.5 f
13 No mowing Sod in April No Nitrogen	68.8 a	93.8 a	91.3 abc	92.5 a-d	73.8 c	26.3 e
14 No mowing Sod in April 1# N/M every 4 weeks	52.5 abc	91.3 a	82.5 bcd	88.8 cd	63.8 de	3.8 f
15 No mowing Sod in April 1# N/M every 2 weeks	48.8 bcd	92.5 a	85.0 abc	90.0 bcd	62.5 e	1.3 f
16 No mowing Sod in June No Nitrogen		95.0 a	92.5 ab	91.3 a-d	73.8 c	16.3 ef
17 No mowing Sod in June 1# N/M every 4 weeks		95.0 a	92.5 ab	90.0 bcd	72.5 cd	0.0 f
18 No mowing Sod in June 1# N/M every 2 weeks		95.0 a	88.8 abc	85.0 d	61.3 e	0.0 f
LSD (P=.05)	16.42	11.14	12.36	9.99	8.81	20.34
Standard Deviation	11.49	7.80	8.65	6.99	6.16	14.24
CV	26.9	8.95	10.16	7.65	8.07	29.41
Grand Mean	42.71	87.08	85.07	91.32	76.32	48.4
Bartlett's X2	22.029	41.737	59.851	42.13	60.134	71.535
P(Bartlett's X2)	0.024*	0.001*	0.001*	0.001*	0.001*	0.001*
Friedman's X2	32.058	35.202	34.057	44.118	53.82	60.18
P(Friedman's X2)	0.001	0.006	0.008	0.001	0.001	0.001

North Carolina State University

Effects of Fertility Regimes while Growing in Centipedegrass Prior to Harvesting for Sod

Trial ID: 03-D07
Location: Sandhills Station

Study Dir.: Travis Gannon
Investigator: Fred Yelverton

Crop Code	EREOP	EREOP	EREOP	EREOP	EREOP	EREOP
Rating Data Type	ALIVE	ALIVE	ALIVE	ALIVE	ALIVE	ALIVE
Rating Unit	%	%	%	%	%	%
Rating Date	5-28-03	7-9-03	8-6-03	9-2-03	10-6-03	7-20-04
Trt-Eval Interval	315 DA-A	357 DA-A	385 DA-A	412 DA-A	446 DA-A	734 DA-A
Replicate F	9.068	3.634	0.649	0.500	9.302	6.453
Replicate Prob(F)	0.0001	0.0218	0.5890	0.6846	0.0001	0.0013
Treatment F	13.133	8.822	7.803	11.975	19.087	32.043
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean separations are based on the complete error term.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Trial Comments

7-17-02 - Centipedegrass fertilization trial was initiated by setting up three (3) treatments. They are as follows: 1) One (1) pound of nitrogen per 1000 ft² from ammonium nitrate (33-0-0) every two (2) weeks, 2) One (1) pound of nitrogen per 1000 ft² from ammonium nitrate every four (4) weeks, and 3) no fertilizer applied. Every 2 wk fertilized treatments totalled 6 lb N/M for the growing season while every 4 wk treatments totalled 3 lb N/M during the growing season. 2 & 4 week plots were fertilized.

7-26-02 - 2 week plots were fertilized.

8-13-02 - 2 & 4 week plots were fertilized.

8-27-02 - 2 week plots were fertilized.

9-11-02 - 2 & 4 week plots were fertilized.

9-24-02 - 2 week plots were fertilized. Was last fertilizer application for season. Totals for growing season were 3 pounds N per 1000 ft² and 6 pounds N per 1000 ft² for fertilized every 4 weeks and every 2 weeks respectively.

2-24-03 - Centipedegrass sod was moved from sandhills station that was subjected to various fertilizer treatments last growing season. Sod was cut 1 inch deep by 1 ft wide by 4 ft long strips. Sod was rolled up and moved to sodding site. Sod strips totalled 1 ft wide by 8 ft long within plot of 4 ft by 8 ft.

4-25-03 - Centipedegrass sod was moved from sandhills station that was subjected to various fertilizer treatments last growing season. Sod was cut 1 inch deep by 1 ft wide by 4 ft long strips. Sod was rolled up and moved to sodding site. Sod strips totalled 1 ft wide by 8 ft long within plot of 4 ft by 8 ft.

5-28-03 - Centipedegrass sod was moved from sandhills station that was subjected to various fertilizer treatments last growing season. Sod was cut 1 inch deep by 1 ft wide by 4 ft long strips. Sod was rolled up and moved to sodding site. Sod strips totalled 1 ft wide by 8 ft long within plot of 4 ft by 8 ft.