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|---|-------------------------------|
| Centipedegrass Decline Resulting From Mismanagement: Mowing and Fertilization Interactions | |
| Trial ID: Centipedel | Study Director: Jonathan Bohn |
| Location: Griffin | Investigator: Clint Waltz |

General Trial Information

| | |
|--------------------------------------|-------------------------------|
| Study Director: Jonathan Bohn | Title: Technician |
| Affiliation: C&SS - UGA | |
| Investigator: Clint Waltz | Title: Asst. Professor |
| Affiliation: C&SS - UGA | E-mail: CWaltz@UGA.edu |

Trial Location

| | |
|------------------------|---|
| City: Griffin | Trial Status: MULTI-YEAR/INTERIM |
| State/Prov.: GA | Initiation Date: 5-23-2003 |

Cooperator/Landowner

| | |
|--------------------------------|---------------------------------|
| Cooperator: Wayne Hanna | Organization: C&SS - UGA |
| City: Tifton | State/Prov: GA |

Crop Description

| | | |
|---|----------------------------|-------------------------|
| Crop 1: ERLOP <i>Eremochloa ophiuroides</i> Centipedegrass | Variety: 'TifBlair' | BBCH Scale: BGRM |
|---|----------------------------|-------------------------|

Site and Design

| | |
|-------------------------------|---------------------------------|
| Plot Width, Unit: 9 FT | Plot Length, Unit: 12 FT |
| Replications: 3 | Study Design: Split-Plot |

Application Description

| | A | B | C | D |
|--------------------------------|---|------------|------------|------------|
| Application Date: | | 5-23-2003 | 7-15-2003 | 8-20-2003 |
| Time of Day: | | 11:00 am | 2:30 pm | 2:00 pm |
| Application Method: | | Shaker Jar | Shaker Jar | Shaker Jar |
| Application Timing: | | Post | Post | Post |
| Application Placement: | | Topical | Topical | Topical |
| Air Temperature, Unit: | | 76 F | 90 F | 89 F |
| % Relative Humidity: | | 82 | 51 | 56.5 |
| Wind Velocity, Unit: | | 3.1 mph | 5.3 mph | 4.7 mph |
| Dew Presence (Y/N): | | N | N | N |
| Soil Temperature, Unit: | | 71 F | 84.3 F | 83.1 F |
| Soil Moisture: | | Good | Good | Good |
| % Cloud Cover: | | 40 | 60 | 60 |

Crop Stage At Each Application

| | A | B | C | D |
|---------------------------------|------------|------------|------------|------------|
| Crop 1 Code, BBCH Scale: | ERLOP BGRM | ERLOP BGRM | ERLOP BGRM | ERLOP BGRM |
| Stage Scale Used: | BBCH | BBCH | BBCH | BBCH |

Trial Comments

| Date | By | Notes |
|----------|-----|--|
| 9-5-2003 | FCW | 1 = Full Seedheads -> 9 = No Seedheads |

University of GA Coop Ext Service

Centipedegrass Decline Resulting From Mismanagement: Mowing and Fertilization Interactions

Trial ID: Centipedel

Study Director: Jonathan Bohn

Location: Griffin

Investigator: Clint Waltz

| Crop Code | | | | | ERLOP | ERLOP | ERLOP | ERLOP | ERLOP | | |
|-------------------------|--|-----------|-----------|-----------|----------------|------------------|----------|-----------|-----------|--------|-------|
| Crop Variety | | | | | TifBlair | TifBlair | TifBlair | TifBlair | TifBlair | | |
| Description | | | | | Griffin | Griffin | Griffin | Griffin | Griffin | | |
| Rating Date | | | | | 6-23-2003 | 7-31-2003 | 9-9-2003 | 6-23-2003 | 7-31-2003 | | |
| Rating Data Type | | | | | TQ | TQ | TQ | COLOR | COLOR | | |
| Rating Unit | | | | | 1-9 | 1-9 | 1-9 | 1-9 | 1-9 | | |
| Assessed By | | | | | FCW | FCW | FCW | FCW | FCW | | |
| Days After Last Applic. | | | | | 31 | 16 | 20 | 31 | 16 | | |
| Trt-Eval Interval | | | | | 1 MAIT | 2 MAIT | 3 MAIT | 1 MAIT | 2 MAIT | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate Rate | Unit | Appl Code | | | | | |
| 1 | 1.5" HOC Untreated | | | | | | 7.3 b | 5.8 d | 7.2 cd | 7.0 e | 5.7 c |
| 2 | 1.5" HOC 0.5 lb N - May | 15 | GR | 0.5 | lb ai/1000 ft2 | B | 7.8 a | 6.7 c | 7.2 cd | 7.7 cd | 6.5 b |
| 3 | 1.5" HOC 0.5 lb N - May & August 0.5 lb N - May & August | 15 | GR | 0.5 | lb ai/1000 ft2 | B D | 7.8 a | 7.2 abc | 7.5 a-d | 7.7 cd | 6.5 b |
| 4 | 1.5" HOC 1.0 lb N - May | 15 | GR | 1 | lb ai/1000 ft2 | B | 7.8 a | 7.0 abc | 7.5 a-d | 8.0 bc | 6.5 b |
| 5 | 1.5" HOC 1.0 lb N - May & August 1.0 lb N - May & August | 15 | GR | 1 | lb ai/1000 ft2 | B D | 8.0 a | 6.8 bc | 8.0 a | 7.8 cd | 6.5 b |
| 6 | 1.5" HOC 2.0 lb N - May | 15 | GR | 2 | lb ai/1000 ft2 | B | 8.0 a | 7.2 abc | 7.0 d | 8.3 ab | 6.5 b |
| 7 | 1.5" HOC 2.0 lb N - May & August 2.0 lb N - May & August | 15 | GR | 2 | lb ai/1000 ft2 | B D | 7.8 a | 7.3 ab | 8.0 a | 8.3 ab | 6.5 b |
| 8 | 1.5" HOC 0.5 lab N - M, M, Jy, & A 0.5 lab N - M, M, Jy, & A 0.5 lab N - M, M, Jy, & A 0.5 lab N - M, M, Jy, & A | 15 | GR | 0.5 | lb ai/1000 ft2 | A B C D | 7.8 a | 7.0 abc | 7.5 a-d | 7.5 d | 7.0 a |
| 9 | 3" HOC Untreated | | | | | | 7.7 ab | 5.8 d | 7.3 bcd | 7.0 e | 5.7 c |
| 10 | 3" HOC 0.5 lb N - May | 15 | GR | 0.5 | lb ai/1000 ft2 | B | 7.8 a | 7.5 a | 7.7 abc | 7.5 d | 6.5 b |
| 11 | 3" HOC 0.5 lb N - May & August 0.5 lb N - May & August | 15 | GR | 0.5 | lb ai/1000 ft2 | B D | 8.0 a | 7.3 ab | 7.8 ab | 7.7 cd | 6.5 b |

University of GA Coop Ext Service

| Crop Code | | | | | | ERLOP | ERLOP | ERLOP | ERLOP | ERLOP |
|-------------------------|--|-----------|-----------|--------------------|------------------|-----------|-----------|----------|-----------|-----------|
| Crop Variety | | | | | | TifBlair | TifBlair | TifBlair | TifBlair | TifBlair |
| Description | | | | | | Griffin | Griffin | Griffin | Griffin | Griffin |
| Rating Date | | | | | | 6-23-2003 | 7-31-2003 | 9-9-2003 | 6-23-2003 | 7-31-2003 |
| Rating Data Type | | | | | | TQ | TQ | TQ | COLOR | COLOR |
| Rating Unit | | | | | | 1-9 | 1-9 | 1-9 | 1-9 | 1-9 |
| Assessed By | | | | | | FCW | FCW | FCW | FCW | FCW |
| Days After Last Applic. | | | | | | 31 | 16 | 20 | 31 | 16 |
| Trt-Eval Interval | | | | | | 1 MAIT | 2 MAIT | 3 MAIT | 1 MAIT | 2 MAIT |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate Unit | Appl Code | | | | | |
| 12 | 3" HOC 1.0 lb N - May | 15 | GR | 1 lb ai/1000 ft2 | B | 8.0 a | 7.2 abc | 7.7 abc | 8.0 bc | 6.5 b |
| 13 | 3" HOC 1.0 lb N - May & August 1.0 lb N - May & August | 15 | GR | 1 lb ai/1000 ft2 | B D | 8.0 a | 7.3 ab | 8.0 a | 8.0 bc | 6.5 b |
| 14 | 3" HOC 2.0 lb N - May | 15 | GR | 2 lb ai/1000 ft2 | B | 8.0 a | 7.5 a | 8.0 a | 8.5 a | 6.5 b |
| 15 | 3" HOC 2.0 lb N - May & August 2.0 lb N - May & August | 15 | GR | 2 lb ai/1000 ft2 | B D | 7.8 a | 7.5 a | 8.0 a | 8.3 ab | 6.7 b |
| 16 | 3" HOC 0.5 lab N - M, M, Jy, & A 0.5 lab N - M, M, Jy, & A 0.5 lab N - M, M, Jy, & A 0.5 lab N - M, M, Jy, & A | 15 | GR | 0.5 lb ai/1000 ft2 | A B C D | 8.0 a | 7.3 ab | 7.8 ab | 7.5 d | 7.0 a |
| LSD (P=.05) | | | | | | 0.41 | 0.46 | 0.53 | 0.32 | 0.29 |
| Standard Deviation | | | | | | 0.25 | 0.27 | 0.32 | 0.19 | 0.17 |
| CV | | | | | | 3.14 | 3.89 | 4.14 | 2.48 | 2.69 |

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

University of GA Coop Ext Service

| Crop Code | | | | | | ERLOP | ERLOP |
|-------------------------|--|-----------|-----------|--------------------|------------------|----------|----------|
| Crop Variety | | | | | | TifBlair | TifBlair |
| Description | | | | | | Griffin | Griffin |
| Rating Date | | | | | | 9-5-2003 | 9-5-2003 |
| Rating Data Type | | | | | | COLOR | SEEDHEAD |
| Rating Unit | | | | | | 1-9 | 1-9 |
| Assessed By | | | | | | FCW | FCW |
| Days After Last Applic. | | | | | | 16 | 16 |
| Trt-Eval Interval | | | | | | 3 MAIT | 3 MAIT |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate Unit | Appl Code | | |
| 1 | 1.5" HOC Untreated | | | | | 6.0 f | 4.0 e |
| 2 | 1.5" HOC 0.5 lb N - May | 15 | GR | 0.5 lb ai/1000 ft2 | B | 6.0 f | 4.5 de |
| 3 | 1.5" HOC 0.5 lb N - May & August 0.5 lb N - May & August | 15 | GR | 0.5 lb ai/1000 ft2 | B D | 6.8 c-f | 6.7 c |
| 4 | 1.5" HOC 1.0 lb N - May | 15 | GR | 1 lb ai/1000 ft2 | B | 6.2 ef | 6.5 c |
| 5 | 1.5" HOC 1.0 lb N - May & August 1.0 lb N - May & August | 15 | GR | 1 lb ai/1000 ft2 | B D | 7.8 ab | 8.0 ab |
| 6 | 1.5" HOC 2.0 lb N - May | 15 | GR | 2 lb ai/1000 ft2 | B | 6.0 f | 5.0 d |
| 7 | 1.5" HOC 2.0 lb N - May & August 2.0 lb N - May & August | 15 | GR | 2 lb ai/1000 ft2 | B D | 8.0 a | 8.0 ab |
| 8 | 1.5" HOC 0.5 lab N - M, M, Jy, & A 0.5 lab N - M, M, Jy, & A 0.5 lab N - M, M, Jy, & A 0.5 lab N - M, M, Jy, & A | 15 | GR | 0.5 lb ai/1000 ft2 | A B C D | 7.0 cde | 7.0 bc |
| 9 | 3" HOC Untreated | | | | | 6.2 ef | 7.0 bc |
| 10 | 3" HOC 0.5 lb N - May | 15 | GR | 0.5 lb ai/1000 ft2 | B | 7.0 cde | 7.7 ab |
| 11 | 3" HOC 0.5 lb N - May & August 0.5 lb N - May & August | 15 | GR | 0.5 lb ai/1000 ft2 | B D | 7.0 cde | 8.2 a |
| 12 | 3" HOC 1.0 lb N - May | 15 | GR | 1 lb ai/1000 ft2 | B | 6.7 def | 8.0 ab |

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| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Appl Code | ERLOP TifBlair | ERLOP Griffin |
|---------|---------------------------|-----------|-----------|--------------------|-----------|-----------|----------------|---------------|
| | | | | | | | ERLOP | ERLOP |
| | | | | | | | TifBlair | TifBlair |
| | | | | | | | Griffin | Griffin |
| | | | | | | | 9-5-2003 | 9-5-2003 |
| | | | | | | | COLOR | SEEDHEAD |
| | | | | | | | 1-9 | 1-9 |
| | | | | | | | FCW | FCW |
| | | | | | | | 16 | 16 |
| | | | | | | | 3 MAIT | 3 MAIT |
| 13 | 3" HOC | | | | | | | |
| | 1.0 lb N - May & August | 15 | GR | 1 lb ai/1000 ft2 | B | | 7.5 a-d | 8.3 a |
| | 1.0 lb N - May & August | 15 | GR | 1 lb ai/1000 ft2 | D | | | |
| 14 | 3" HOC | | | | | | | |
| | 2.0 lb N - May | 15 | GR | 2 lb ai/1000 ft2 | B | | 6.8 c-f | 8.2 a |
| 15 | 3" HOC | | | | | | | |
| | 2.0 lb N - May & August | 15 | GR | 2 lb ai/1000 ft2 | B | | 7.7 abc | 8.5 a |
| | 2.0 lb N - May & August | 15 | GR | 2 lb ai/1000 ft2 | D | | | |
| 16 | 3" HOC | | | | | | | |
| | 0.5 lab N - M, M, Jy, & A | 15 | GR | 0.5 lb ai/1000 ft2 | A | | 7.2 bcd | 8.2 a |
| | 0.5 lab N - M, M, Jy, & A | 15 | GR | 0.5 lb ai/1000 ft2 | B | | | |
| | 0.5 lab N - M, M, Jy, & A | 15 | GR | 0.5 lb ai/1000 ft2 | C | | | |
| | 0.5 lab N - M, M, Jy, & A | 15 | GR | 0.5 lb ai/1000 ft2 | D | | | |
| | LSD (P=.05) | | | | | | 0.73 | 0.90 |
| | Standard Deviation | | | | | | 0.44 | 0.54 |
| | CV | | | | | | 6.35 | 7.62 |

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