

University of GA Coop Ext Service

Effect of Surfactant Type on Annual Bluegrass Control with Velocity in Overseeded Bermudagrass

Trial ID: Turf17-03

Study Dir.: Bill Nutt

Location: Griffin

Investigator: Tim R Murphy

GENERAL TRIAL INFORMATION

Investigator: Tim R Murphy

Title: Weed Scientist

Affiliation: UGA-CAES

Study Director: Bill Nutt

Title: ARC I

Affiliation: UGA-CAES

TRIAL LOCATION

City: Griffin

Trial Status: ONE-YEAR/FINAL

State/Prov.: GA

Initiation Date: 2-18-2003

COOPERATOR/LANDOWNER

Cooperator: Joe Chamberlin

Org: Valent

City: Snellville

State/Prov: GA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

| Weed | Code | Common Name | Scientific Name |
|------|-------|------------------|---------------------|
| 1. | POANN | Annual bluegrass | <i>Poa annua</i> L. |

Crop 1: CYNDA Hybrid Bermudagrass/*Cynodon Dactylon* Variety: Tifway Perennial Age: 20 yrs

Crop 2: LOLPE Ryegrass, Perennial/*Lolium Perenne* Variety: Sunrise Primo

Planting Date: 9-30-2002 Planting Method: Broadcast Rate: 8.0 1b/1000ft2

SITE AND DESIGN

Plot Width, Unit: 6 FT Plot Length, Unit: 10 FT Reps: 4

Site Type: simulated golf course fairway Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance: Irrigated site. Maintained at 0.625 inch clipping height.

APPLICATION DESCRIPTION

| | A | B | C |
|----------------------|-----------|-----------|-----------|
| Application Date: | 2-18-2003 | 3-3-2003 | 3-21-2003 |
| Time of Day: | 3:00 pm | 2:45 pm | 2:15 pm |
| Application Method: | Broadcast | Broadcast | Broadcast |
| Application Timing: | Post | Post | Post |
| Applic. Placement: | Foliar | Foliar | Foliar |
| Air Temp., Unit: | 52 F | 59 F | 71 F |
| % Relative Humidity: | 63 | 30 | 53 |
| Wind Velocity, Unit: | 3 mph | 2.8 mph | 5.7 mph |
| Dew Presence (Y/N): | N | N | N |
| Soil Temp., Unit: | 46 F | 55 F | 68 F |
| Soil Moisture: | High | High | High |
| % Cloud Cover: | 0 | 98 | 0 |

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CROP STAGE AT EACH APPLICATION

| | A | B | C |
|----------------------------|-----------|-----------|----------------|
| Crop 1 Code, Stage: | CYNDA | CYNDA | CYNDA Green up |
| Stage Scale: | Dormant | Dormant | 20% |
| Height, Unit: | .625 inch | .625 inch | 0.75 inch |
| Crop 2 Code, Stage: | LOLPE | LOLPE | LOLPE |
| Stage Scale: | Active | Active | Active |
| Height, Unit: | .625 inch | .75 inch | 1.0 inch |

WEED STAGE AT EACH APPLICATION

| | A | B | C |
|----------------------------|---|--|----------------|
| Weed 1 Code, Stage: | POANN Multi-Tiller | POANN Multi-Tiller | POANN 1.5"Hght |
| Stage Scale: | Seedhead starting to emerge from sheath about 1/4 inch. | Seedhead starting to emerge from sheath about 1/4 -1/2 inch. | Seedhead |
| Diameter, Unit: | 1-3 inch | 1-3 inch | |
| Density, Unit: | 30 % | 30 % | 40 % |

APPLICATION EQUIPMENT

| | A | B | C |
|------------------------------|----------|----------|----------|
| Appl. Equipment: | Backpack | Backpack | Backpack |
| Operating Pressure: | 26 psi | 26 psi | 26 psi |
| Nozzle Type: | Flat fan | Flat fan | Flat fan |
| Nozzle Size: | 8004 VS | 8004 VS | 8004 VS |
| Nozzle Spacing, Unit: | 20 inch | 20 inch | 20 inch |
| Boom Length, Unit: | 5 feet | 5 feet | 5 feet |
| Boom Height, Unit: | 18 inch | 18 inch | 18 inch |
| Ground Speed, Unit: | 3 mph | 3 mph | 3 mph |
| Carrier: | Water | Water | Water |
| Spray Volume, Unit: | 25 gpa | 25 gpa | 25 gpa |
| Propellant: | C02 | C02 | C02 |
| Tank Mix (Y/N): | N | N | N |

Trial Comments

2-25-03

Broadcast 1 lb N/1000 sq. ft. as 10-10-10 fertilizer.

WEED DENSITY RATINGS FOR UNTREATED CONTROL CHECK

| | <u>101</u> | <u>204</u> | <u>301</u> | <u>402</u> |
|----------------|------------|------------|------------|------------|
| POAAN, 2-28-03 | 30 | 30 | 30 | 30 |
| POAAN, 3-18-03 | 50 | 40 | 35 | 50 |

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Trial ID: Turf17-03

Study Dir. : Bill Nutt

Location: Griffin

Investigator: Tim R Murphy

| | | | | | | | LOLPE | LOLPE | LOLPE | LOLPE |
|--------------------|--------------------------------------|-----------|-----------|-------------------------|-------------|-----------|-----------|-----------|----------|-----------|
| | | | | | | | Injury | Injury | Injury | Injury |
| | | | | | | | 0-100 | 0-100 | 0-100 | 0-100 |
| | | | | | | | 2-24-2003 | 2-28-2003 | 3-3-2003 | 3-10-2003 |
| | | | | | | | 6 DA-A | 10 DA-A | 13 DA-A | 20 DA-A |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate Rate Unit | Grow Stg | Appl Code | | | | |
| 1 | Untreated Check | | | | | | 0 a | 0 d | 0 b | 0 e |
| 2 | Velocity fb | 80 | SP | 30 g ai/a | mid-Feb | A | 0 a | 6 c | 11 a | 28 b |
| | Velocity | 80 | SP | 30 g ai/a | +14-21d | B | | | | |
| 3 | Velocity + Chem-Nut 80/20 NIS fb | 80 | SP | 30 g ai/a 0.25 % v/v | mid-Feb | A | 0 a | 10 b | 14 a | 44 a |
| | Velocity + Chem-Nut 80/20 NIS | 80 | SP | 30 g ai/a 0.25 % v/v | +14-21d | B | | | | |
| 4 | Velocity + Kinetic Surfactant fb | 80 | SP | 30 g ai/a 0.25 % v/v | mid-Feb | A | 0 a | 14 a | 16 a | 49 a |
| | Velocity + Kinetic Surfactant | 80 | SP | 30 g ai/a 0.25 % v/v | +14-21d | B | | | | |
| 5 | Velocity + Destiny MSO fb | 80 | SP | 30 g ai/a 1.0 % v/v | mid-Feb | A | 0 a | 14 a | 16 a | 49 a |
| | Velocity + Destiny MSO (BAS 9050) | 80 | SP | 30 g ai/a 1.0 % v/v | +14-21d | B | | | | |
| 6 | Untreated Check | | | | | | | | | 0 e |
| 7 | Velocity fb | 80 | SP | 30 g ai/a | Early March | B | | | | 10 d |
| | Velocity | 80 | SP | 30 g ai/a | +14-21d | C | | | | |
| 8 | Velocity + Chem-Nut 80/20 NIS fb | 80 | SP | 30 g ai/a 0.25 % v/v | Early March | B | | | | 26 b |
| | Velocity + Chem-Nut 80/20 NIS | 80 | SP | 30 g ai/a 0.25 % v/v | +14-21d | C | | | | |
| 9 | Velocity + Kinetic Surfactant fb | 80 | SP | 30 g ai/a 0.25 % v/v | Early March | B | | | | 20 c |
| | Velocity + Kinetic Surfactant | 80 | SP | 30 g ai/a 0.25 % v/v | +14-21d | C | | | | |
| 10 | Velocity + Destiny MSO fb | 80 | SP | 30 g ai/a 1.0 % v/v | Early March | B | | | | 31 b |
| | Velocity + Destiny MSO | 80 | SP | 30 g ai/a 1.0 % v/v | +14-21d | C | | | | |
| LSD (P=.05) | | | | | | | 0.0 | 2.5 | 5.3 | 6.0 |
| Standard Deviation | | | | | | | 0.0 | 1.6 | 3.4 | 4.1 |
| CV | | | | | | | 0.0 | 18.81 | 29.7 | 16.05 |

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| Weed Code | | | | | | | LOLPE | LOLPE | LOLPE | POAAN | |
|--------------------|------------------------|-----------|-----------|------------|-------------|-----|-----------|-----------|-----------|-----------|------|
| Crop Code | | | | | | | | | | | |
| Part Rated | | | | | | | | | | | |
| Rating Data Type | | | | | | | Injury | Injury | Injury | Control | |
| Rating Unit | | | | | | | 0-100 | 0-100 | 0-100 | 0-100 | |
| Rating Date | | | | | | | 3-18-2003 | 3-31-2003 | 4-16-2003 | 2-28-2003 | |
| Trt-Eval Interval | | | | | | | 28 DA-A | 41 DA-A | 57 DA-A | 10 DA-A | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Grow Unit | Stg | Appl Code | | | | |
| 1 | Untreated Check | | | | | | | 0 f | 0 c | 0 a | 0 c |
| 2 | Velocity fb | 80 | SP | 30 g ai/a | mid-Feb | | A | 16 de | 0 c | 0 a | 20 b |
| | Velocity | 80 | SP | 30 g ai/a | +14-21d | | B | | | | |
| 3 | Velocity + | 80 | SP | 30 g ai/a | mid-Feb | | A | 35 bc | 0 c | 0 a | 26 a |
| | Chem-Nut 80/20 NIS fb | | | 0.25 % v/v | mid-Feb | | A | | | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | | B | | | | |
| | Chem-Nut 80/20 NIS | | | 0.25 % v/v | +14-21d | | B | | | | |
| 4 | Velocity + | 80 | SP | 30 g ai/a | mid-Feb | | A | 43 ab | 0 c | 0 a | 29 a |
| | Kinetic Surfactant fb | | | 0.25 % v/v | mid-Feb | | A | | | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | | B | | | | |
| | Kinetic Surfactant | | | 0.25 % v/v | +14-21d | | B | | | | |
| 5 | Velocity + | 80 | SP | 30 g ai/a | mid-Feb | | A | 49 a | 5 c | 0 a | 28 a |
| | Destiny MSO fb | | | 1.0 % v/v | mid-Feb | | A | | | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | | B | | | | |
| | Destiny MSO (BAS 9050) | | | 1.0 % v/v | +14-21d | | B | | | | |
| 6 | Untreated Check | | | | | | | 0 f | 0 c | 0 a | |
| 7 | Velocity fb | 80 | SP | 30 g ai/a | Early March | | B | 9 ef | 23 b | 0 a | |
| | Velocity | 80 | SP | 30 g ai/a | +14-21d | | C | | | | |
| 8 | Velocity + | 80 | SP | 30 g ai/a | Early March | | B | 30 c | 26 ab | 0 a | |
| | Chem-Nut 80/20 NIS fb | | | 0.25 % v/v | Early March | | B | | | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | | C | | | | |
| | Chem-Nut 80/20 NIS | | | 0.25 % v/v | +14-21d | | C | | | | |
| 9 | Velocity + | 80 | SP | 30 g ai/a | Early March | | B | 26 cd | 28 ab | 0 a | |
| | Kinetic Surfactant fb | | | 0.25 % v/v | Early March | | B | | | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | | C | | | | |
| | Kinetic Surfactant | | | 0.25 % v/v | +14-21d | | C | | | | |
| 10 | Velocity + | 80 | SP | 30 g ai/a | Early March | | B | 36 bc | 30 a | 0 a | |
| | Destiny MSO fb | | | 1.0 % v/v | Early March | | B | | | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | | C | | | | |
| | Destiny MSO | | | 1.0 % v/v | +14-21d | | C | | | | |
| LSD (P=.05) | | | | | | | | 10.2 | 5.5 | 0.0 | 3.9 |
| Standard Deviation | | | | | | | | 7.0 | 3.8 | 0.0 | 2.5 |
| CV | | | | | | | | 28.81 | 33.8 | 0.0 | 12.4 |

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| Weed Code | | | | | | | POAAN | POAAN | POAAN | POAAN | |
|--------------------|------------------------|-----------|-----------|------------|-------------|-----|-----------|-----------|-----------|-----------|-------|
| Crop Code | | | | | | | | | | | |
| Part Rated | | | | | | | | | | | |
| Rating Data Type | | | | | | | Control | Control | Control | Control | |
| Rating Unit | | | | | | | 0-100 | 0-100 | 0-100 | 0-100 | |
| Rating Date | | | | | | | 3-3-2003 | 3-10-2003 | 3-18-2003 | 3-31-2003 | |
| Trt-Eval Interval | | | | | | | 13 DA-A | 20 DA-A | 28 DA-A | 41 DA-A | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Grow Unit | Stg | Appl Code | | | | |
| 1 | Untreated Check | | | | | | | 0 b | 0 c | 0 e | 0 d |
| 2 | Velocity fb | 80 | SP | 30 g ai/a | mid-Feb | | A | 90 a | 85 a | 89 a | 89 b |
| | Velocity | 80 | SP | 30 g ai/a | +14-21d | | B | | | | |
| 3 | Velocity + | 80 | SP | 30 g ai/a | mid-Feb | | A | 90 a | 80 a | 95 a | 97 a |
| | Chem-Nut 80/20 NIS fb | | | 0.25 % v/v | mid-Feb | | A | | | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | | B | | | | |
| | Chem-Nut 80/20 NIS | | | 0.25 % v/v | +14-21d | | B | | | | |
| 4 | Velocity + | 80 | SP | 30 g ai/a | mid-Feb | | A | 90 a | 90 a | 93 a | 99 a |
| | Kinetic Surfactant fb | | | 0.25 % v/v | mid-Feb | | A | | | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | | B | | | | |
| | Kinetic Surfactant | | | 0.25 % v/v | +14-21d | | B | | | | |
| 5 | Velocity + | 80 | SP | 30 g ai/a | mid-Feb | | A | 90 a | 88 a | 93 a | 99 a |
| | Destiny MSO fb | | | 1.0 % v/v | mid-Feb | | A | | | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | | B | | | | |
| | Destiny MSO (BAS 9050) | | | 1.0 % v/v | +14-21d | | B | | | | |
| 6 | Untreated Check | | | | | | | | 0 c | 0 e | 0 d |
| 7 | Velocity fb | 80 | SP | 30 g ai/a | Early March | | B | | 60 b | 58 d | 58 c |
| | Velocity | 80 | SP | 30 g ai/a | +14-21d | | C | | | | |
| 8 | Velocity + | 80 | SP | 30 g ai/a | Early March | | B | | 55 b | 79 b | 94 ab |
| | Chem-Nut 80/20 NIS fb | | | 0.25 % v/v | Early March | | B | | | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | | C | | | | |
| | Chem-Nut 80/20 NIS | | | 0.25 % v/v | +14-21d | | C | | | | |
| 9 | Velocity + | 80 | SP | 30 g ai/a | Early March | | B | | 53 b | 80 b | 91 ab |
| | Kinetic Surfactant fb | | | 0.25 % v/v | Early March | | B | | | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | | C | | | | |
| | Kinetic Surfactant | | | 0.25 % v/v | +14-21d | | C | | | | |
| 10 | Velocity + | 80 | SP | 30 g ai/a | Early March | | B | | 50 b | 70 c | 93 ab |
| | Destiny MSO fb | | | 1.0 % v/v | Early March | | B | | | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | | C | | | | |
| | Destiny MSO | | | 1.0 % v/v | +14-21d | | C | | | | |
| LSD (P=.05) | | | | | | | 0.0 | 12.1 | 7.0 | 7.1 | |
| Standard Deviation | | | | | | | 0.0 | 8.4 | 4.8 | 4.9 | |
| CV | | | | | | | 0.0 | 14.94 | 7.36 | 6.82 | |

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| Weed Code | | | | | | | POAAN | POAAN | POAAN | POAAN | | |
|--------------------|------------------------|-----------|-----------|------------|-------------|-----|-----------|-----------|-----------|-----------|-------|--|
| Crop Code | | | | | | | | | | | | |
| Part Rated | | | | | | | | Seedhead | Seedhead | Seedhead | | |
| Rating Data Type | | | | | | | Control | Suppressn | Suppressn | Suppressn | | |
| Rating Unit | | | | | | | 0-100 | 0-100 | 0-100 | 0-100 | | |
| Rating Date | | | | | | | 4-16-2003 | 3-3-2003 | 3-10-2003 | 3-18-2003 | | |
| Trt-Eval Interval | | | | | | | 57 DA-A | 13 DA-A | 20 DA-A | 28 DA-A | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Grow Unit | Stg | Appl Code | | | | | |
| 1 | Untreated Check | | | | | | | 0 c | 0 b | 0 e | 0 e | |
| 2 | Velocity fb | 80 | SP | 30 g ai/a | mid-Feb | A | | 79 b | 100 a | 94 ab | 98 ab | |
| | Velocity | 80 | SP | 30 g ai/a | +14-21d | B | | | | | | |
| 3 | Velocity + | 80 | SP | 30 g ai/a | mid-Feb | A | | 99 a | 100 a | 98 a | 100 a | |
| | Chem-Nut 80/20 NIS fb | | | 0.25 % v/v | mid-Feb | A | | | | | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | B | | | | | | |
| | Chem-Nut 80/20 NIS | | | 0.25 % v/v | +14-21d | B | | | | | | |
| 4 | Velocity + | 80 | SP | 30 g ai/a | mid-Feb | A | | 96 a | 100 a | 98 a | 100 a | |
| | Kinetic Surfactant fb | | | 0.25 % v/v | mid-Feb | A | | | | | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | B | | | | | | |
| | Kinetic Surfactant | | | 0.25 % v/v | +14-21d | B | | | | | | |
| 5 | Velocity + | 80 | SP | 30 g ai/a | mid-Feb | A | | 100 a | 100 a | 98 a | 100 a | |
| | Destiny MSO fb | | | 1.0 % v/v | mid-Feb | A | | | | | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | B | | | | | | |
| | Destiny MSO (BAS 9050) | | | 1.0 % v/v | +14-21d | B | | | | | | |
| 6 | Untreated Check | | | | | | | 0 c | | 0 e | 0 e | |
| 7 | Velocity fb | 80 | SP | 30 g ai/a | Early March | B | | 91 a | | 68 d | 68 d | |
| | Velocity | 80 | SP | 30 g ai/a | +14-21d | C | | | | | | |
| 8 | Velocity + | 80 | SP | 30 g ai/a | Early March | B | | 99 a | | 73 cd | 89 c | |
| | Chem-Nut 80/20 NIS fb | | | 0.25 % v/v | Early March | B | | | | | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | C | | | | | | |
| | Chem-Nut 80/20 NIS | | | 0.25 % v/v | +14-21d | C | | | | | | |
| 9 | Velocity + | 80 | SP | 30 g ai/a | Early March | B | | 95 a | | 78 bcd | 90 bc | |
| | Kinetic Surfactant fb | | | 0.25 % v/v | Early March | B | | | | | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | C | | | | | | |
| | Kinetic Surfactant | | | 0.25 % v/v | +14-21d | C | | | | | | |
| 10 | Velocity + | 80 | SP | 30 g ai/a | Early March | B | | 100 a | | 89 abc | 84 c | |
| | Destiny MSO fb | | | 1.0 % v/v | Early March | B | | | | | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | C | | | | | | |
| | Destiny MSO | | | 1.0 % v/v | +14-21d | C | | | | | | |
| LSD (P=.05) | | | | | | | | 8.2 | 0.0 | 15.6 | 8.0 | |
| Standard Deviation | | | | | | | | 5.6 | 0.0 | 10.8 | 5.5 | |
| CV | | | | | | | | 7.43 | 0.0 | 15.54 | 7.55 | |

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| Weed Code | | | | | | | POAAN | POAAN |
|--------------------|------------------------|-----------|-----------|------------|-------------|-----------|-----------|-----------|
| Crop Code | | | | | | | | |
| Part Rated | | | | | | | Seedhead | Seedhead |
| Rating Data Type | | | | | | | Suppressn | Suppressn |
| Rating Unit | | | | | | | 0-100 | 0-100 |
| Rating Date | | | | | | | 3-31-2003 | 4-16-2003 |
| Trt-Eval Interval | | | | | | | 41 DA-A | 57 DA-A |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate Unit | Grow Stg | Appl Code | | |
| 1 | Untreated Check | | | | | | 0 d | 0 c |
| 2 | Velocity fb | 80 | SP | 30 g ai/a | mid-Feb | A | 93 b | 78 b |
| | Velocity | 80 | SP | 30 g ai/a | +14-21d | B | | |
| 3 | Velocity + | 80 | SP | 30 g ai/a | mid-Feb | A | 98 a | 100 a |
| | Chem-Nut 80/20 NIS fb | | | 0.25 % v/v | mid-Feb | A | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | B | | |
| | Chem-Nut 80/20 NIS | | | 0.25 % v/v | +14-21d | B | | |
| 4 | Velocity + | 80 | SP | 30 g ai/a | mid-Feb | A | 100 a | 97 a |
| | Kinetic Surfactant fb | | | 0.25 % v/v | mid-Feb | A | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | B | | |
| | Kinetic Surfactant | | | 0.25 % v/v | +14-21d | B | | |
| 5 | Velocity + | 80 | SP | 30 g ai/a | mid-Feb | A | 100 a | 100 a |
| | Destiny MSO fb | | | 1.0 % v/v | mid-Feb | A | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | B | | |
| | Destiny MSO (BAS 9050) | | | 1.0 % v/v | +14-21d | B | | |
| 6 | Untreated Check | | | | | | 0 d | 0 c |
| 7 | Velocity fb | 80 | SP | 30 g ai/a | Early March | B | 70 c | 93 a |
| | Velocity | 80 | SP | 30 g ai/a | +14-21d | C | | |
| 8 | Velocity + | 80 | SP | 30 g ai/a | Early March | B | 100 a | 100 a |
| | Chem-Nut 80/20 NIS fb | | | 0.25 % v/v | Early March | B | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | C | | |
| | Chem-Nut 80/20 NIS | | | 0.25 % v/v | +14-21d | C | | |
| 9 | Velocity + | 80 | SP | 30 g ai/a | Early March | B | 99 a | 96 a |
| | Kinetic Surfactant fb | | | 0.25 % v/v | Early March | B | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | C | | |
| | Kinetic Surfactant | | | 0.25 % v/v | +14-21d | C | | |
| 10 | Velocity + | 80 | SP | 30 g ai/a | Early March | B | 100 a | 100 a |
| | Destiny MSO fb | | | 1.0 % v/v | Early March | B | | |
| | Velocity + | 80 | SP | 30 g ai/a | +14-21d | C | | |
| | Destiny MSO | | | 1.0 % v/v | +14-21d | C | | |
| LSD (P=.05) | | | | | | | 4.3 | 10.4 |
| Standard Deviation | | | | | | | 3.0 | 7.1 |
| CV | | | | | | | 3.9 | 9.37 |

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