

MSU Weed Science Research Program

COMPARISON OF ADJUVANTS IN CORN, 2008

Trial ID: C1509
Conducted: CAMPUS

Study Dir.: Andy Chomas
Investigator: Wesley Everman

Weed Density (plants/sq. ft.)

1
Date: 6/12/09
Weed Name: ANGR
Density: 27
Date: 6/12/09
Weed Name: CHEAL
Density: 25
Date: 6/12/09
Weed Name: AMARE
Density: 2
Date: 6/12/09
Weed Name: AMBEL
Density: 0
Date: 6/12/09
Weed Name: ABUTH
Density: <1

Application Equipment

| Appl | Sprayer | Speed | Nozzle | Nozzle | Nozzle | Nozzle | Boom | | | | |
|------|---------|-------|--------|--------|--------|---------|-------|-----|---------|-----|--|
| | Type | MPH | Type | Size | Height | Spacing | Width | GPA | Carrier | PSI | |
| A | CUB | 3.5 | FF | 8003 | 28" | 20" | 100" | 20 | H2O | 30 | |

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| Weed Code | ANGR | CHEAL | AMARE | ANGR | CHEAL | AMARE |
|-------------------|---------|---------|---------|---------|---------|---------|
| Crop Code | ZEAMX | ZEAMX | ZEAMX | ZEAMX | ZEAMX | ZEAMX |
| Rating Data Type | injury | control | control | control | injury | control |
| Rating Unit | percent | percent | percent | percent | percent | percent |
| Rating Date | 6/19/09 | 6/19/09 | 6/19/09 | 6/19/09 | 6/26/09 | 6/26/09 |
| Trt-Eval Interval | 7 DAPO | 7 DAPO | 7 DAPO | 7 DAPO | 14 DAPO | 14 DAPO |
| ARM Action Codes | 7 DAPO | 7 DAPO | 7 DAPO | 7 DAPO | 14 DAPO | 14 DAPO |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
|--------------------|------------------|-----------|-----------|------|------------|----------|-----|------|------|------|-----|------|------|------|--|
| 1 | Buccaneer | 3 | L | 16 | fl oz/a | POST | 0 | 77 | 61 | 100 | 0 | 96 | 65 | 100 | |
| 1 | Ammonium Sulfate | 100 | DF | 8.5 | lb/100 gal | POST | | | | | | | | | |
| 2 | Buccaneer | 3 | L | 16 | fl oz/a | POST | 0 | 76 | 68 | 100 | 0 | 97 | 92 | 100 | |
| 2 | Ammonium Sulfate | 100 | DF | 8.5 | lb/100 gal | POST | | | | | | | | | |
| 2 | WE1002-2 | | L | 1 | qt/100 gal | POST | | | | | | | | | |
| 3 | Buccaneer | 3 | L | 16 | fl oz/a | POST | 0 | 77 | 68 | 98 | 0 | 97 | 73 | 100 | |
| 3 | Ammonium Sulfate | 100 | DF | 8.5 | lb/100 gal | POST | | | | | | | | | |
| 3 | WE1003-1 | | L | 1 | qt/100 gal | POST | | | | | | | | | |
| 4 | Buccaneer | 3 | L | 16 | fl oz/a | POST | 0 | 79 | 70 | 100 | 0 | 97 | 91 | 99 | |
| 4 | Ammonium Sulfate | 100 | DF | 8.5 | lb/100 gal | POST | | | | | | | | | |
| 4 | WE1008-1 | | L | 1 | qt/100 gal | POST | | | | | | | | | |
| 5 | Buccaneer | 3 | L | 16 | fl oz/a | POST | 0 | 79 | 69 | 100 | 0 | 93 | 91 | 100 | |
| 5 | Ammonium Sulfate | 100 | DF | 8.5 | lb/100 gal | POST | | | | | | | | | |
| 5 | WE1138-1 | | L | 1 | qt/100 gal | POST | | | | | | | | | |
| 6 | Buccaneer | 3 | L | 16 | fl oz/a | POST | 0 | 77 | 68 | 100 | 0 | 93 | 82 | 98 | |
| 6 | Ammonium Sulfate | 100 | DF | 8.5 | lb/100 gal | POST | | | | | | | | | |
| 6 | WE1139-1 | | L | 1 | qt/100 gal | POST | | | | | | | | | |
| 7 | Buccaneer | 3 | L | 16 | fl oz/a | POST | 0 | 78 | 73 | 100 | 0 | 95 | 86 | 100 | |
| 7 | Ammonium Sulfate | 100 | DF | 8.5 | lb/100 gal | POST | | | | | | | | | |
| 7 | WE1140-1 | | L | 1 | qt/100 gal | POST | | | | | | | | | |
| 8 | Non-Treated | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| LSD (P=.05) | | | | | | | 0.0 | 7.3 | 5.5 | 2.6 | 0.0 | 4.6 | 9.1 | 2.7 | |
| Standard Deviation | | | | | | | 0.0 | 5.0 | 3.7 | 1.8 | 0.0 | 3.1 | 6.2 | 1.9 | |
| CV | | | | | | | 0.0 | 7.37 | 6.29 | 2.03 | 0.0 | 3.73 | 8.58 | 2.14 | |

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| | | | | | | |
|-------------------|---------|---------|---------|---------|---------|---------|
| Weed Code | ABUTH | | ANGR | CHEAL | AMARE | ABUTH |
| Crop Code | | ZEAMX | | | | |
| Rating Data Type | control | injury | control | control | control | control |
| Rating Unit | percent | percent | percent | percent | percent | percent |
| Rating Date | 6/26/09 | 7/10/09 | 7/10/09 | 7/10/09 | 7/10/09 | 7/10/09 |
| Trt-Eval Interval | 14 DAPO | 28 DAPO | 28 DAPO | 28 DAPO | 28 DAPO | 28 DAPO |
| ARM Action Codes | | | | | | |

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | 9 | 10 | 11 | 12 | 13 | 14 |
|--------------------|------------------|-----------|-----------|------|------------|----------|-----|-----|------|------|------|-----|
| 1 | Buccaneer | 3 | L | 16 | fl oz/a | POST | 98 | 0 | 77 | 64 | 89 | 85 |
| 1 | Ammonium Sulfate | 100 | DF | 8.5 | lb/100 gal | POST | | | | | | |
| 2 | Buccaneer | 3 | L | 16 | fl oz/a | POST | 97 | 0 | 78 | 76 | 88 | 90 |
| 2 | Ammonium Sulfate | 100 | DF | 8.5 | lb/100 gal | POST | | | | | | |
| 2 | WE1002-2 | | L | 1 | qt/100 gal | POST | | | | | | |
| 3 | Buccaneer | 3 | L | 16 | fl oz/a | POST | 100 | 0 | 76 | 67 | 88 | 92 |
| 3 | Ammonium Sulfate | 100 | DF | 8.5 | lb/100 gal | POST | | | | | | |
| 3 | WE1003-1 | | L | 1 | qt/100 gal | POST | | | | | | |
| 4 | Buccaneer | 3 | L | 16 | fl oz/a | POST | 98 | 0 | 81 | 75 | 91 | 90 |
| 4 | Ammonium Sulfate | 100 | DF | 8.5 | lb/100 gal | POST | | | | | | |
| 4 | WE1008-1 | | L | 1 | qt/100 gal | POST | | | | | | |
| 5 | Buccaneer | 3 | L | 16 | fl oz/a | POST | 94 | 0 | 79 | 74 | 89 | 93 |
| 5 | Ammonium Sulfate | 100 | DF | 8.5 | lb/100 gal | POST | | | | | | |
| 5 | WE1138-1 | | L | 1 | qt/100 gal | POST | | | | | | |
| 6 | Buccaneer | 3 | L | 16 | fl oz/a | POST | 98 | 0 | 75 | 71 | 93 | 91 |
| 6 | Ammonium Sulfate | 100 | DF | 8.5 | lb/100 gal | POST | | | | | | |
| 6 | WE1139-1 | | L | 1 | qt/100 gal | POST | | | | | | |
| 7 | Buccaneer | 3 | L | 16 | fl oz/a | POST | 96 | 0 | 81 | 74 | 92 | 93 |
| 7 | Ammonium Sulfate | 100 | DF | 8.5 | lb/100 gal | POST | | | | | | |
| 7 | WE1140-1 | | L | 1 | qt/100 gal | POST | | | | | | |
| 8 | Non-Treated | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LSD (P=.05) | | | | | | | 5.5 | 0.0 | 6.5 | 4.8 | 8.1 | 6.4 |
| Standard Deviation | | | | | | | 3.7 | 0.0 | 4.4 | 3.2 | 5.5 | 4.3 |
| CV | | | | | | | 4.4 | 0.0 | 6.44 | 5.18 | 6.97 | 5.5 |