

LSU Northeast Research Station

PREEMERGENCE HERBICIDE COMBINATIONS IN COTTON

GENERAL TRIAL INFORMATION

Investigator: Donnie Miller
TRIAL LOCATION: ST JOSEPH, LA
Crop 1: GOSHI COTTON
Variety: DP164B2RF
Planting Date: 30/Apr/2008

SITE AND DESIGN

Plot Width, Unit: 6.67 FT
Plot Length, Unit: 25 FT
Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 50 % OM: 1
% Silt: 28 pH: 6.5
% Clay: 22 CEC: 12.8
Texture: SILT LOAM

APPLICATION DESCRIPTION

A
Application Date: 1/May/2008
Time of Day: 9:45 AM
Application Method: SPRAY
Application Timing: PREPRE
Applic. Placement: BROSOI
Air Temp., Unit: 74 F
% Relative Humidity: 60
Wind Velocity, Unit: 13.6 MPH
Dew Presence (Y/N): N
Water Hardness: N
Soil Temp., Unit: 72 F
Soil Moisture: DRY
% Cloud Cover: 70

APPLICATION EQUIPMENT

A
Appl. Equipment: CO2 BCPCCK
Operating Pressure: 34 psi
Nozzle Type: DG
Nozzle Size: 11002
Nozzle Spacing, Unit: 20 IN
Nozzles/Row: 2
Ground Speed, Unit: 3.2 MPH
Carrier: WATER
Spray Volume, Unit: 15 GPA

LSU Northeast Research Station

| | | | | | | | | | |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Weed Code | SEBEX | CASOB | IPOLA | IPOHG | AMARE | ECHCG | DIGSA | SEBEX | CASOB |
| Crop Code | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI |
| Rating Data Type | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL | INJURY | CONTROL |
| Rating Unit | % | % | % | % | % | % | % | % | % |
| Rating Date | 15/May/2008 | 15/May/2008 | 15/May/2008 | 15/May/2008 | 15/May/2008 | 15/May/2008 | 15/May/2008 | 15/May/2008 | 22/May/2008 |
| Trt-Eval Interval | 7 DAE | 7 DAE | 7 DAE | 7 DAE | 7 DAE | 7 DAE | 7 DAE | 7 DAE | 14 DAE |

ARM Action Codes
Subsamples, Dec.

| Trt No. | Treatment Name | Rate | Unit | Appl Code | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--------------------|----------------|-------|------|-----------|----------|-----------|----------|----------|----------|----------|----------|--------|----------|-----------|
| 1 | COTTON PRO | 4.8 | pt/a | A | 98.75 a | 86.25 abc | 98.75 a | 93.75 a | 100.00 a | 100.00 a | 95.00 ab | 2.50 a | 96.25 a | 78.75 abc |
| 2 | COTORAN | 2.4 | pt/a | A | 98.75 a | 85.00 abc | 97.50 a | 97.50 a | 98.75 a | 100.00 a | 100.00 a | 3.75 a | 100.00 a | 82.50 abc |
| 3 | DIURON | 1.25 | pt/a | A | 98.75 a | 81.25 c | 98.75 a | 92.50 a | 100.00 a | 100.00 a | 96.25 ab | 2.50 a | 100.00 a | 77.50 bc |
| 4 | PARALLEL PCS | 1.33 | pt/a | A | 97.50 a | 83.75 bc | 97.50 a | 91.25 ab | 98.75 a | 100.00 a | 100.00 a | 2.50 a | 92.50 a | 73.75 c |
| 5 | COTORAN | 1.2 | pt/a | A | 100.00 a | 91.25 ab | 98.75 a | 97.50 a | 98.75 a | 100.00 a | 100.00 a | 3.75 a | 98.75 a | 88.75 a |
| | DIURON | 0.625 | pt/a | A | | | | | | | | | | |
| 6 | COTORAN | 1.6 | pt/a | A | 98.75 a | 91.25 ab | 96.25 a | 96.25 a | 100.00 a | 100.00 a | 100.00 a | 5.00 a | 100.00 a | 86.25 ab |
| | DIURON | 0.84 | pt/a | A | | | | | | | | | | |
| 7 | COTORAN | 1.2 | pt/a | A | 100.00 a | 90.00 abc | 100.00 a | 96.25 a | 100.00 a | 100.00 a | 97.50 a | 5.00 a | 98.75 a | 81.25 abc |
| | COTTON PRO | 2.4 | pt/a | A | | | | | | | | | | |
| 8 | COTORAN | 1.6 | pt/a | A | 98.75 a | 93.75 a | 98.75 a | 93.75 a | 100.00 a | 100.00 a | 100.00 a | 0.00 a | 98.75 a | 87.50 ab |
| | COTTON PRO | 3.2 | pt/a | A | | | | | | | | | | |
| 9 | COTORAN | 1.2 | pt/a | A | 96.25 a | 91.25 ab | 97.50 a | 93.75 a | 98.75 a | 100.00 a | 98.75 a | 2.50 a | 96.25 a | 86.25 ab |
| | PARALLEL PCS | 0.67 | pt/a | A | | | | | | | | | | |
| 10 | COTORAN | 1.6 | pt/a | A | 97.50 a | 93.75 a | 97.50 a | 93.75 a | 100.00 a | 100.00 a | 100.00 a | 1.25 a | 97.50 a | 86.25 ab |
| | PARALLEL PCS | 0.89 | pt/a | A | | | | | | | | | | |
| 11 | DIURON | 0.625 | pt/a | A | 96.25 a | 86.25 abc | 98.75 a | 95.00 a | 100.00 a | 100.00 a | 90.00 bc | 2.50 a | 98.75 a | 81.25 abc |
| | COTTON PRO | 2.4 | pt/a | A | | | | | | | | | | |
| 12 | DIURON | 0.84 | pt/a | A | 95.00 a | 91.25 ab | 96.25 a | 96.25 a | 98.75 a | 100.00 a | 96.25 ab | 1.25 a | 95.00 a | 86.25 ab |
| | COTTON PRO | 3.2 | pt/a | A | | | | | | | | | | |
| 13 | STAPLE LX | 1.3 | oz/a | A | 95.00 a | 91.25 ab | 96.25 a | 75.00 b | 100.00 a | 100.00 a | 87.50 c | 3.75 a | 93.75 a | 86.25 ab |
| 14 | PARALLEL PCS | 1.33 | pt/a | A | 100.00 a | 90.00 abc | 97.50 a | 97.50 a | 100.00 a | 100.00 a | 100.00 a | 2.50 a | 97.50 a | 85.00 ab |
| | STAPLE LX | 1.3 | oz/a | A | | | | | | | | | | |
| 15 | NONTREATED | | | | 0.00 b | 0.00 d | 0.00 b | 0.00 c | 0.00 b | 0.00 b | 0.00 d | 0.00 a | 0.00 b | 0.00 d |
| LSD (P=.05) | | | | | 6.132 | 8.862 | 4.599 | 17.451 | 2.003 | 0.000 | 7.396 | 5.661 | 7.569 | 10.05 |
| Standard Deviation | | | | | 4.291 | 6.201 | 3.218 | 12.212 | 1.402 | 0.000 | 5.175 | 3.962 | 5.297 | 7.03 |
| CV | | | | | 4.69 | 7.46 | 3.52 | 13.98 | 1.51 | 0.0 | 5.7 | 153.35 | 5.83 | 9.0 |
| Grand Mean | | | | | 91.42 | 83.08 | 91.33 | 87.33 | 92.92 | 93.33 | 90.75 | 2.58 | 90.92 | 77.8 |
| Bartlett's X2 | | | | | 15.157 | 9.048 | 10.979 | 71.948 | 0.0 | 0.0 | 11.212 | 9.646 | 24.496 | 12.56 |
| P(Bartlett's X2) | | | | | 0.126 | 0.769 | 0.531 | 0.001* | 1.00 | . | 0.082 | 0.647 | 0.006* | 0.48 |
| Replicate F | | | | | 2.859 | 0.358 | 6.115 | 0.753 | 1.909 | 0.000 | 2.878 | 0.735 | 2.708 | 1.92 |
| Replicate Prob(F) | | | | | 0.0482 | 0.7839 | 0.0015 | 0.5271 | 0.1428 | 1.0000 | 0.0472 | 0.5373 | 0.0572 | 0.140 |
| Treatment F | | | | | 139.552 | 56.375 | 247.023 | 16.464 | 1346.212 | 0.000 | 96.360 | 0.595 | 90.938 | 38.92 |
| Treatment Prob(F) | | | | | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 1.0000 | 0.0001 | 0.8532 | 0.0001 | 0.000 |

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

LSU Northeast Research Station

| Weed Code | IPOLA | IPOHG | AMARE | ECHCG | DIGSA | SEBEX | CASOB | IPOLA | IPOHG | | | | | |
|--------------------|--------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|-----------|-----------|----------|----------|
| Crop Code | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | | | | | |
| Rating Data Type | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL | INJURY | CONTROL | CONTROL | CONTROL | | | | | |
| Rating Unit | % | % | % | % | % | % | % | % | % | | | | | |
| Rating Date | 22/May/2008 | 22/May/2008 | 22/May/2008 | 22/May/2008 | 22/May/2008 | 22/May/2008 | 5/Jun/2008 | 5/Jun/2008 | 5/Jun/2008 | 5/Jun/2008 | | | | |
| Trt-Eval Interval | 14 DAE | 14 DAE | 14 DAE | 14 DAE | 14 DAE | 14 DAE | 28 DAE | 28 DAE | 28 DAE | 28 DAE | | | | |
| ARM Action Codes | | | | | | | | | | | | | | |
| # Subsamples, Dec. | | | | | | | | | | | | | | |
| Trt | Treatment | Rate | Appl | | | | | | | | | | | |
| No. | Name | Rate | Unit | Code | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 1 | COTTON PRO | 4.8 pt/a | A | | 100.00 a | 93.75 a-d | 100.00 a | 100.00 a | 93.75 abc | 0.00 a | 97.50 ab | 71.25 cde | 98.75 a | 96.25 ab |
| 2 | COTORAN | 2.4 pt/a | A | | 100.00 a | 100.00 a | 100.00 a | 100.00 a | 91.25 bc | 0.00 a | 97.50 ab | 82.50 a-d | 100.00 a | 100.00 a |
| 3 | DIURON | 1.25 pt/a | A | | 100.00 a | 90.00 cd | 96.25 b | 100.00 a | 96.25 abc | 0.00 a | 92.50 ab | 68.75 de | 98.75 a | 95.00 ab |
| 4 | PARALLEL PCS | 1.33 pt/a | A | | 100.00 a | 87.50 d | 96.25 b | 98.75 ab | 97.50 ab | 0.00 a | 85.00 bc | 66.25 e | 100.00 a | 88.75 b |
| 5 | COTORAN | 1.2 pt/a | A | | 98.75 b | 97.50 ab | 98.75 ab | 100.00 a | 97.50 ab | 0.00 a | 95.00 ab | 85.00 abc | 100.00 a | 97.50 ab |
| | DIURON | 0.625 pt/a | A | | | | | | | | | | | |
| 6 | COTORAN | 1.6 pt/a | A | | 100.00 a | 93.75 a-d | 100.00 a | 100.00 a | 100.00 a | 0.00 a | 100.00 a | 86.25 ab | 98.75 a | 92.50 ab |
| | DIURON | 0.84 pt/a | A | | | | | | | | | | | |
| 7 | COTORAN | 1.2 pt/a | A | | 100.00 a | 98.75 a | 100.00 a | 100.00 a | 96.25 abc | 0.00 a | 91.25 abc | 81.25 a-d | 98.75 a | 96.25 ab |
| | COTTON PRO | 2.4 pt/a | A | | | | | | | | | | | |
| 8 | COTORAN | 1.6 pt/a | A | | 100.00 a | 98.75 a | 97.50 ab | 100.00 a | 96.25 abc | 0.00 a | 92.50 ab | 82.50 a-d | 97.50 a | 97.50 ab |
| | COTTON PRO | 3.2 pt/a | A | | | | | | | | | | | |
| 9 | COTORAN | 1.2 pt/a | A | | 100.00 a | 91.25 bcd | 98.75 ab | 100.00 a | 97.50 ab | 1.25 a | 87.50 abc | 87.50 a | 100.00 a | 91.25 ab |
| | PARALLEL PCS | 0.67 pt/a | A | | | | | | | | | | | |
| 10 | COTORAN | 1.6 pt/a | A | | 100.00 a | 95.00 abc | 98.75 ab | 100.00 a | 96.25 abc | 0.00 a | 95.00 ab | 85.00 abc | 96.25 a | 90.00 b |
| | PARALLEL PCS | 0.89 pt/a | A | | | | | | | | | | | |
| 11 | DIURON | 0.625 pt/a | A | | 100.00 a | 93.75 a-d | 100.00 a | 100.00 a | 88.75 cd | 0.00 a | 85.00 bc | 72.50 b-e | 97.50 a | 93.75 ab |
| | COTTON PRO | 2.4 pt/a | A | | | | | | | | | | | |
| 12 | DIURON | 0.84 pt/a | A | | 100.00 a | 93.75 a-d | 97.50 ab | 100.00 a | 91.25 bc | 0.00 a | 90.00 abc | 76.25 a-e | 98.75 a | 90.00 b |
| | COTTON PRO | 3.2 pt/a | A | | | | | | | | | | | |
| 13 | STAPLE LX | 1.3 oz/a | A | | 100.00 a | 95.00 abc | 100.00 a | 95.00 b | 82.50 d | 0.00 a | 77.50 c | 88.75 a | 96.25 a | 95.00 ab |
| 14 | PARALLEL PCS | 1.33 pt/a | A | | 100.00 a | 97.50 ab | 100.00 a | 100.00 a | 88.75 cd | 1.25 a | 87.50 abc | 81.25 a-d | 96.25 a | 91.25 ab |
| | STAPLE LX | 1.3 oz/a | A | | | | | | | | | | | |
| 15 | NONTREATED | | | | 0.00 c | 0.00 e | 0.00 c | 0.00 c | 0.00 e | 0.00 a | 0.00 d | 0.00 f | 0.00 b | 0.00 c |
| LSD (P=.05) | | | | | 0.922 | 6.548 | 3.640 | 3.825 | 8.581 | 1.320 | 13.910 | 14.347 | 5.896 | 8.841 |
| Standard Deviation | | | | | 0.645 | 4.582 | 2.547 | 2.676 | 6.004 | 0.924 | 9.734 | 10.040 | 4.126 | 6.187 |
| CV | | | | | 0.69 | 5.18 | 2.76 | 2.88 | 6.86 | 554.2 | 11.46 | 13.51 | 4.49 | 7.06 |
| Grand Mean | | | | | 93.25 | 88.42 | 92.25 | 92.92 | 87.58 | 0.17 | 84.92 | 74.33 | 91.83 | 87.67 |
| Bartlett's X2 | | | | | 0.0 | 12.328 | 3.902 | 4.473 | 10.096 | 0.0 | 17.027 | 10.041 | 12.574 | 10.571 |
| P(Bartlett's X2) | | | | | . | 0.42 | 0.69 | 0.034* | 0.608 | 1.00 | 0.149 | 0.691 | 0.183 | 0.566 |
| Replicate F | | | | | 1.000 | 2.772 | 1.092 | 0.834 | 2.816 | 0.651 | 9.375 | 1.047 | 0.685 | 3.745 |
| Replicate Prob(F) | | | | | 0.4023 | 0.0532 | 0.3631 | 0.4829 | 0.0506 | 0.5867 | 0.0001 | 0.3817 | 0.5660 | 0.0180 |
| Treatment F | | | | | 6389.572 | 116.263 | 402.688 | 369.931 | 67.474 | 0.907 | 24.752 | 18.761 | 152.091 | 62.586 |
| Treatment Prob(F) | | | | | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.5582 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

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

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

LSU Northeast Research Station

| Weed Code | SORHA | AMARE | ECHCG | DIGSA | SEBEX | CASOB | IPOLA | IPOHG | AMARE | | | | |
|--------------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-----------|----------|-----------|-----------|
| Crop Code | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | | | | |
| Rating Data Type | CONTROL | CONTROL | CONTROL | CONTROL | INJURY | CONTROL | CONTROL | CONTROL | CONTROL | | | | |
| Rating Unit | % | % | % | % | % | % | % | % | % | | | | |
| Rating Date | 5/Jun/2008 | 5/Jun/2008 | 5/Jun/2008 | 5/Jun/2008 | 5/Jun/2008 | 19/Jun/2008 | 19/Jun/2008 | 19/Jun/2008 | 19/Jun/2008 | | | | |
| Trt-Eval Interval | 28 DAE | 28 DAE | 28 DAE | 28 DAE | 28 DAE | 42 DAE | 42 DAE | 42 DAE | 42 DAE | | | | |
| ARM Action Codes | | | | | | | | | | | | | |
| # Subsamples, Dec. | | | | | | | | | | | | | |
| Trt Treatment | | | | | | | | | | | | | |
| No. Name | Rate | Unit | Appl Code | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 1 COTTON PRO | 4.8 | pt/a | A | 50.00 d | 87.50 cd | 72.50 de | 76.25 ab | 0.00 a | 97.50 a | 65.00 cde | 98.75 ab | 92.50 abc | 86.25 bc |
| 2 COTORAN | 2.4 | pt/a | A | 45.00 d | 96.25 ab | 91.25 abc | 78.75 ab | 0.00 a | 96.25 a | 77.50 abc | 100.00 a | 100.00 a | 95.00 ab |
| 3 DIURON | 1.25 | pt/a | A | 42.50 d | 91.25 bcd | 73.75 cde | 76.25 ab | 0.00 a | 95.00 ab | 70.00 bcd | 97.50 ab | 95.00 ab | 90.00 abc |
| 4 PARALLEL PCS | 1.33 | pt/a | A | 43.75 d | 86.25 d | 92.50 ab | 88.75 a | 0.00 a | 83.75 bc | 52.50 e | 97.50 ab | 83.75 c | 81.25 c |
| 5 COTORAN | 1.2 | pt/a | A | 63.75 a-d | 98.75 ab | 93.75 ab | 83.75 ab | 0.00 a | 95.00 ab | 81.25 abc | 100.00 a | 97.50 a | 97.50 a |
| DIURON | 0.625 | pt/a | A | | | | | | | | | | |
| 6 COTORAN | 1.6 | pt/a | A | 63.75 a-d | 100.00 a | 96.25 a | 92.50 a | 0.00 a | 98.75 a | 85.00 ab | 97.50 ab | 93.75 ab | 97.50 a |
| DIURON | 0.84 | pt/a | A | | | | | | | | | | |
| 7 COTORAN | 1.2 | pt/a | A | 57.50 cd | 100.00 a | 87.50 a-d | 83.75 ab | 0.00 a | 93.75 ab | 73.75 a-d | 100.00 a | 92.50 abc | 91.25 abc |
| COTTON PRO | 2.4 | pt/a | A | | | | | | | | | | |
| 8 COTORAN | 1.6 | pt/a | A | 58.75 bcd | 96.25 ab | 88.75 a-d | 86.25 ab | 0.00 a | 96.25 a | 83.75 ab | 96.25 ab | 98.75 a | 96.25 ab |
| COTTON PRO | 3.2 | pt/a | A | | | | | | | | | | |
| 9 COTORAN | 1.2 | pt/a | A | 53.75 cd | 95.00 abc | 95.00 a | 92.50 a | 0.00 a | 90.00 ab | 76.25 a-d | 98.75 ab | 91.25 abc | 91.25 abc |
| PARALLEL PCS | 0.67 | pt/a | A | | | | | | | | | | |
| 10 COTORAN | 1.6 | pt/a | A | 62.50 a-d | 93.75 a-d | 93.75 ab | 83.75 ab | 0.00 a | 96.25 a | 82.50 ab | 96.25 ab | 91.25 abc | 92.50 ab |
| PARALLEL PCS | 0.89 | pt/a | A | | | | | | | | | | |
| 11 DIURON | 0.625 | pt/a | A | 80.00 abc | 97.50 ab | 76.25 b-e | 70.00 b | 0.00 a | 88.75 abc | 60.00 de | 100.00 a | 93.75 ab | 98.75 a |
| COTTON PRO | 2.4 | pt/a | A | | | | | | | | | | |
| 12 DIURON | 0.84 | pt/a | A | 62.50 a-d | 92.50 a-d | 87.50 a-d | 80.00 ab | 0.00 a | 88.75 abc | 77.50 abc | 96.25 ab | 91.25 abc | 90.00 abc |
| COTTON PRO | 3.2 | pt/a | A | | | | | | | | | | |
| 13 STAPLE LX | 1.3 | oz/a | A | 86.25 a | 100.00 a | 58.75 e | 50.00 c | 0.00 a | 77.50 c | 88.75 a | 95.00 ab | 86.25 bc | 100.00 a |
| 14 PARALLEL PCS | 1.33 | pt/a | A | 85.00 ab | 100.00 a | 90.00 a-d | 76.25 ab | 0.00 a | 87.50 abc | 85.00 ab | 92.50 b | 87.50 bc | 100.00 a |
| STAPLE LX | 1.3 | oz/a | A | | | | | | | | | | |
| 15 NONTREATED | | | | 0.00 e | 0.00 e | 0.00 f | 0.00 d | 0.00 a | 0.00 d | 0.00 f | 0.00 c | 0.00 d | 0.00 d |
| LSD (P=.05) | | | | 27.057 | 7.851 | 18.363 | 18.577 | 0.000 | 11.912 | 16.382 | 7.142 | 9.612 | 10.627 |
| Standard Deviation | | | | 18.933 | 5.494 | 12.850 | 13.000 | 0.000 | 8.336 | 11.463 | 4.998 | 6.726 | 7.436 |
| CV | | | | 33.22 | 6.17 | 16.1 | 17.43 | 0.0 | 9.73 | 16.24 | 5.49 | 7.79 | 8.53 |
| Grand Mean | | | | 57.0 | 89.0 | 79.83 | 74.58 | 0.0 | 85.67 | 70.58 | 91.08 | 86.33 | 87.17 |
| Bartlett's X2 | | | | 9.126 | 10.337 | 40.659 | 29.674 | 0.0 | 19.783 | 8.467 | 13.201 | 6.279 | 13.355 |
| P(Bartlett's X2) | | | | 0.763 | 0.324 | 0.001* | 0.005* | . | 0.101 | 0.812 | 0.154 | 0.901 | 0.271 |
| Replicate F | | | | 9.956 | 1.878 | 4.068 | 3.888 | 0.000 | 17.062 | 1.331 | 0.595 | 1.105 | 0.693 |
| Replicate Prob(F) | | | | 0.0001 | 0.1480 | 0.0126 | 0.0154 | 1.0000 | 0.0001 | 0.2772 | 0.6218 | 0.3577 | 0.5613 |
| Treatment F | | | | 4.911 | 82.965 | 14.534 | 12.636 | 0.000 | 34.282 | 14.709 | 102.398 | 52.174 | 44.087 |
| Treatment Prob(F) | | | | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 1.0000 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

LSU Northeast Research Station

| Weed Code | SEBEX | CASOB | IPOLA | IPOHG | AMARE | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | | | |
|--------------------|--------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|--------|--------|---------|
| Crop Code | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | GOSHI | | | |
| Rating Data Type | INJURY | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL | INJURY | YIELD | YIELD | YIELD | | | |
| Rating Unit | % | % | % | % | % | % | % | LB | LB/A | LB/A | | | |
| Rating Date | 19/Jun/2008 | 3/Jul/2008 | 3/Jul/2008 | 3/Jul/2008 | 3/Jul/2008 | 3/Jul/2008 | 3/Jul/2008 | 16/Oct/2008 | 16/Oct/2008 | 16/Oct/2008 | | | |
| Trt-Eval Interval | 42 DAE | 56 DAE | 56 DAE | 56 DAE | 56 DAE | 56 DAE | 56 DAE | 168 DA-A | 168 DA-A | 168 DA-A | | | |
| ARM Action Codes | | | | | | | | | | TY1 | | | |
| # Subsamples, Dec. | | | | | | | | | | 1 | | | |
| Trt | Treatment | Rate | Appl | | | | | | | | | | |
| No. | Name | Rate | Unit | Code | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
| 1 | COTTON PRO | 4.8 pt/a | A | | 0.00 a | 98.75 a | 57.50 bc | 90.00 cde | 87.50 b-f | 86.25 ab | 0.00 a | 1.80 a | 470.2 a |
| 2 | COTORAN | 2.4 pt/a | A | | 0.00 a | 98.75 a | 72.50 ab | 100.00 a | 96.25 ab | 95.00 ab | 0.00 a | 2.40 a | 625.6 a |
| 3 | DIURON | 1.25 pt/a | A | | 0.00 a | 75.00 a | 62.50 abc | 92.50 b-e | 86.25 c-f | 88.75 ab | 0.00 a | 2.68 a | 698.8 a |
| 4 | PARALLEL PCS | 1.33 pt/a | A | | 0.00 a | 83.75 a | 48.75 c | 86.25 e | 82.50 ef | 83.75 b | 0.00 a | 2.31 a | 602.1 a |
| 5 | COTORAN | 1.2 pt/a | A | | 0.00 a | 92.50 a | 73.75 ab | 98.75 ab | 97.50 a | 95.00 ab | 0.00 a | 2.15 a | 562.7 a |
| | DIURON | 0.625 pt/a | A | | | | | | | | | | |
| 6 | COTORAN | 1.6 pt/a | A | | 0.00 a | 98.75 a | 73.75 ab | 98.75 ab | 95.00 abc | 98.75 a | 0.00 a | 2.20 a | 574.7 a |
| | DIURON | 0.84 pt/a | A | | | | | | | | | | |
| 7 | COTORAN | 1.2 pt/a | A | | 0.00 a | 91.25 a | 70.00 abc | 96.25 abc | 91.25 a-e | 90.00 ab | 0.00 a | 2.11 a | 551.2 a |
| | COTTON PRO | 2.4 pt/a | A | | | | | | | | | | |
| 8 | COTORAN | 1.6 pt/a | A | | 0.00 a | 92.50 a | 78.75 ab | 93.75 a-d | 88.75 a-f | 95.00 ab | 0.00 a | 3.63 a | 947.0 a |
| | COTTON PRO | 3.2 pt/a | A | | | | | | | | | | |
| 9 | COTORAN | 1.2 pt/a | A | | 0.00 a | 82.50 a | 70.00 abc | 90.00 cde | 85.00 def | 92.50 ab | 0.00 a | 1.83 a | 476.7 a |
| | PARALLEL PCS | 0.67 pt/a | A | | | | | | | | | | |
| 10 | COTORAN | 1.6 pt/a | A | | 0.00 a | 97.50 a | 76.25 ab | 96.25 abc | 92.50 a-d | 88.75 ab | 0.00 a | 1.78 a | 463.7 a |
| | PARALLEL PCS | 0.89 pt/a | A | | | | | | | | | | |
| 11 | DIURON | 0.625 pt/a | A | | 0.00 a | 91.25 a | 60.00 bc | 93.75 a-d | 82.50 ef | 91.25 ab | 0.00 a | 1.87 a | 487.2 a |
| | COTTON PRO | 2.4 pt/a | A | | | | | | | | | | |
| 12 | DIURON | 0.84 pt/a | A | | 0.00 a | 87.50 a | 67.50 abc | 92.50 b-e | 81.25 f | 86.25 ab | 0.00 a | 2.58 a | 674.0 a |
| | COTTON PRO | 3.2 pt/a | A | | | | | | | | | | |
| 13 | STAPLE LX | 1.3 oz/a | A | | 0.00 a | 76.25 a | 82.50 a | 93.75 a-d | 91.25 a-e | 97.50 ab | 0.00 a | 1.09 a | 284.7 a |
| 14 | PARALLEL PCS | 1.33 pt/a | A | | 0.00 a | 85.00 a | 67.50 abc | 87.50 de | 87.50 b-f | 100.00 a | 0.00 a | 2.60 a | 677.9 a |
| | STAPLE LX | 1.3 oz/a | A | | | | | | | | | | |
| 15 | NONTREATED | | | | 0.00 a | 0.00 b | 0.00 d | 0.00 f | 0.00 g | 0.00 c | 0.00 a | 1.55 a | 404.9 a |
| LSD (P=.05) | | | | | 0.000 | 25.518 | 22.454 | 6.694 | 9.593 | 13.958 | 0.000 | 1.752 | 457.68 |
| Standard Deviation | | | | | 0.000 | 17.856 | 15.713 | 4.684 | 6.713 | 9.767 | 0.000 | 1.226 | 320.27 |
| CV | | | | | 0.0 | 21.41 | 24.52 | 5.36 | 8.09 | 11.37 | 0.0 | 56.51 | 56.51 |
| Grand Mean | | | | | 0.0 | 83.42 | 64.08 | 87.33 | 83.0 | 85.92 | 0.0 | 2.17 | 566.76 |
| Bartlett's X2 | | | | | 0.0 | 50.454 | 11.09 | 9.876 | 4.413 | 18.299 | 0.0 | 19.362 | 19.362 |
| P(Bartlett's X2) | | | | | . | 0.001* | 0.603 | 0.627 | 0.986 | 0.107 | . | 0.152 | 0.152 |
| Replicate F | | | | | 0.000 | 3.779 | 0.911 | 6.886 | 9.395 | 0.610 | 0.000 | 6.592 | 6.592 |
| Replicate Prob(F) | | | | | 1.0000 | 0.0173 | 0.4439 | 0.0007 | 0.0001 | 0.6122 | 1.0000 | 0.0010 | 0.0010 |
| Treatment F | | | | | 0.000 | 7.430 | 6.316 | 109.362 | 49.058 | 24.666 | 0.000 | 0.922 | 0.922 |
| Treatment Prob(F) | | | | | 1.0000 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 1.0000 | 0.5440 | 0.5440 |

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Column 39: TY1 = 261.2294*[38]