(04FALSOY1)

Ohio State University
Horticulture and Crop Science

FALL BURNDOWN WITH RESIDUAL IN SOYBEAN

Trial ID: 04FALSOY1 Study Dir.: Anthony F. Dobbels
Location: WESTERN ENTOMOLOGY W-4 Investigator: Dr. Mark M. Loux

**GENERAL TRIAL INFORMATION**

**Study Director:** Anthony F. Dobbels
**Investigator:** Dr. Mark M. Loux

**Conducted Under GLP (Y/N):** N **Conducted Under GEP (Y/N):** N

**CROP AND WEED DESCRIPTION**

| Weed | Code | Common Name | Scientific Name |
|---|---|---|---|
| 1. | TAROF | Common dandelion | Taraxacum officinale |
| 2. | LAMPU | Deadnettle, Red | Lamium purpureum |
| 3. | STEME | Common chickweed | Stellaria media |

**Crop 1:** GLXMA SOYBEAN **Variety:** SEED CONULTANTS SC9333
**Planting Date:** 4-28-04 **Planting Method:** JOHN DEERE 7200
**Rate:** 155000 SEED/A **Depth:** 0.5 IN
**Row Spacing:** 30 IN **Seed Bed:** NO-TILL

**SITE AND DESIGN**

**Plot Width, Unit:** 10 FT **Plot Length, Unit:** 30 FT **Reps:** 3
**Tillage Type:** NO-TILL **Study Design:** RANDOMIZED COMPLETE BLOCK

**MAINTENANCE**

**Field Prep./Maintenance:**
APPLIED OVERLAY OF ROUNDUP WEATHERMAX 22 OZ/A 6-4-04

**SOIL DESCRIPTION**

| | | | |
|---|---|---|---|
| **% OM:** | 2.9 | **Texture:** | SILT LOAM |
| **pH:** | 6.1 | **Soil Name:** | CROSBY |
| **CEC:** | 18 | | |

**APPLICATION DESCRIPTION**

| | A | B |
|---|---|---|
| **Application Date:** | 11-3-03 | 4-14-04 |
| **Time of Day:** | 11:30 A.M | 1:00 P.M. |
| **Application Method:** | SPRAY | SPRAY |
| **Application Timing:** | FALL | SPRING |
| **Applic. Placement:** | BROADCAST | BROADCAST |
| **Air Temp., Unit:** | 76 F | 51 F |
| **% Relative Humidity:** | 50 | 47 |
| **Wind Velocity, Unit:** | 6 S | 8 N |
| **Soil Temp., Unit:** | 59 F | 48 F |
| **Soil Moisture:** | MOIST/WET | WET/MOIST |
| **% Cloud Cover:** | 15 | 5 |

**CROP STAGE AT EACH APPLICATION**

| | A | B |
|---|---|---|
| **Crop 1 Code, Stage:** | GLXMA | GLXMA |

**WEED STAGE AT EACH APPLICATION**

| | A | B |
|---|---|---|
| **Weed 1 Code, Stage:** | TAROF 6-8" ROSE | TAROF 6-12" ROS |
| **Stage Scale:** | 12 LVS | >12 LVS |
| **Density, Unit:** | 16 M2 | 16 M2 |
| **Weed 2 Code, Stage:** | LAMPU 1/2-1" | LAMPU 3-4" |
| **Stage Scale:** | 2 LVS | >12 LVS |
| **Density, Unit:** | 3.3 M2 | 3.3 M2 |
| **Weed 3 Code, Stage:** | STEME 12" | STEME >12" |
| **Stage Scale:** | >12 LVS | >12 LVS |
| **Density, Unit:** | 14.6 M2 | 14.6 M2 |

**APPLICATION EQUIPMENT**

| | A | B |
|---|---|---|
| **Appl. Equipment:** | BACKPACK | BACKPACK |
| **Operating Pressure:** | 50 | 50 |
| **Nozzle Type:** | DG | DG |
| **Nozzle Size:** | 11002 | 11002 |
| **Nozzle Spacing, Unit:** | 18 IN | 18 IN |
| **Ground Speed, Unit:** | 3 MPH | 3 MPH |
| **Carrier:** | WATER | WATER |
| **Spray Volume, Unit:** | 20 GPA | 20 GPA |
| **Propellant:** | CO2 | CO2 |

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| Trt No. | Treatment Name | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Weed Code | | | | | | TAROF | STEME | LAMPU | TAROF | STEME | LAMPU | TAROF | TAROF |
| Rating Data Type | | | | | | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL |
| Rating Unit | | | | | | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT |
| Rating Date | | | | | | 4-29-04 | 4-29-04 | 4-29-04 | 5-21-04 | 5-21-04 | 5-21-04 | 6-3-04 | 6-28-04 |
| Trt-Eval Interval | | | | | | AT PLANT | AT PLANT | AT PLANT | 22 DAPL | 22 DAPL | 22 DAPL | AT POST | 28 DAPO |
| # Subsamples, Dec. | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | SCEPTER | 2.1 | oz/a | FALL | A | 53 | 100 | 100 | 40 | 80 | 67 | 13 | 93 |
| 1 | 2,4-D ESTER | 1 | pt/a | FALL | | | | | | | | | |
| 1 | COC | 1.6 | pt/a | FALL | | | | | | | | | |
| 1 | AMS | 4 | qt/a | FALL | | | | | | | | | |
| 2 | SCEPTER | 2.1 | oz/a | FALL | A | 27 | 100 | 100 | 40 | 87 | 87 | 7 | 92 |
| 2 | BLANKET | 4 | oz/a | FALL | | | | | | | | | |
| 2 | 2,4-D ESTER | 1 | pt/a | FALL | | | | | | | | | |
| 2 | COC | 1.6 | pt/a | FALL | | | | | | | | | |
| 2 | AMS | 4 | qt/a | FALL | | | | | | | | | |
| 3 | BACKDRAFT | 2.5 | qt/a | FALL | A | 91 | 100 | 100 | 83 | 100 | 65 | 50 | 98 |
| 3 | 2,4-D ESTER | 1 | pt/a | FALL | | | | | | | | | |
| 3 | COC | 1.6 | pt/a | FALL | | | | | | | | | |
| 3 | AMS | 4 | qt/a | FALL | | | | | | | | | |
| 4 | CANOPY XL 3.5 OZ/A | | | | | 99 | 100 | 100 | 93 | 100 | 99 | 85 | 100 |
| 4 | F6025 | 1.34 | oz/a | FALL | A | | | | | | | | |
| 4 | QY998 | 2.18 | oz/a | FALL | | | | | | | | | |
| 4 | EXPRESS | 0.128 | oz/a | FALL | | | | | | | | | |
| 4 | 2,4-D ESTER | 1 | pt/a | FALL | | | | | | | | | |
| 4 | COC | 1.6 | pt/a | FALL | | | | | | | | | |
| 5 | PURSUIT | 1.43 | oz/a | SPRING | B | 30 | 33 | 30 | 82 | 0 | 97 | 72 | 90 |
| 5 | 2,4-D ESTER | 1 | pt/a | SPRING | | | | | | | | | |
| 5 | COC | 1.6 | pt/a | SPRING | | | | | | | | | |
| 5 | AMS | 4 | qt/a | SPRING | | | | | | | | | |
| 6 | PURSUIT | 1.43 | oz/a | SPRING | B | 47 | 50 | 43 | 80 | 37 | 100 | 52 | 95 |
| 6 | BLANKET | 4 | oz/a | SPRING | | | | | | | | | |
| 6 | 2,4-D ESTER | 1 | pt/a | SPRING | | | | | | | | | |
| 6 | COC | 1.6 | pt/a | SPRING | | | | | | | | | |
| 6 | AMS | 4 | qt/a | SPRING | | | | | | | | | |
| 7 | EXTREME | 3 | pt/a | SPRING | B | 40 | 90 | 50 | 96 | 100 | 98 | 87 | 93 |
| 7 | 2,4-D ESTER | 1 | pt/a | SPRING | | | | | | | | | |
| 7 | COC | 1.6 | pt/a | SPRING | | | | | | | | | |
| 7 | AMS | 4 | qt/a | SPRING | | | | | | | | | |
| 8 | UTC | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 92 |
| LSD (P=.05) | | | | | | 19.9 | 6.8 | 6.8 | 16.3 | 25.7 | 17.5 | 17.3 | 9.6 |
| Standard Deviation | | | | | | 11.4 | 3.9 | 3.9 | 9.3 | 14.7 | 10.0 | 9.9 | 5.5 |
| CV | | | | | | 23.53 | 5.38 | 5.9 | 14.5 | 23.36 | 13.07 | 21.59 | 5.86 |
| Replicate F | | | | | | 1.086 | 1.960 | 1.960 | 0.736 | 0.251 | 0.582 | 0.387 | 0.434 |
| Replicate Prob(F) | | | | | | 0.3643 | 0.1776 | 0.1776 | 0.4968 | 0.7817 | 0.5719 | 0.6865 | 0.6565 |
| Treatment F | | | | | | 25.196 | 305.920 | 318.040 | 39.756 | 26.950 | 34.824 | 38.035 | 1.226 |
| Treatment Prob(F) | | | | | | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.3519 |