

## SOIL INFORMATION

## TRIAL INFORMATION

TEXTURE: SIL  
PH: 6.3  
%OM: 2.4  
PREV.CROP: GLXMA - SOYBEAN  
%RESIDUE: 50  
PLOT WIDTH: 10 X 30 FEET

DESIGN: RCB  
REPS: 3

| APPL. NUMBER     | 01        | 02                  | 03                  | 04                  | UNIT |
|------------------|-----------|---------------------|---------------------|---------------------|------|
| TIMINGS          | 09        | 11                  | 12                  | 13                  |      |
| TYPE             | LIQMIX    | LIQMIX              | LIQMIX              | LIQMIX              |      |
| APPLICATION DATE | 06/25/03  | 07/07/03            | 07/17/03            | 07/24/03            | AME  |
| AIR TEMPERATURE  | 92        | 95                  | 96                  | 85                  | F    |
| % REL.HUMIDITY   | 37        | 48                  | 44                  | 33                  |      |
| WIND DIRECTION   | WEST      | SOUTHWEST           | WEST                | WEST                |      |
| WIND SPEED       |           | 8.0                 | 3.0                 | 2.0                 | M/H  |
| CLOUD COVER      | CLEAR     | CLEAR               | CLEAR               | CLEAR               |      |
| DEW              | NO        | NO                  | NO                  | NO                  |      |
| SOIL MOISTURE    | DRY/MOIST | DRY/MOIST           | DRY/MOIST           | DRY/MOIST           |      |
| SOIL CONDITION   | COMPACT   | COMPACT             | COMPACT             | FRIABLE             |      |
| METHOD           | SPRAY     | SPRAY               | SPRAY               | SPRAY               |      |
| EQUIPMENT        | SPRBAC    | SPRBAC              | SPRBAC              | SPRBAC              |      |
| PROPELLANT       | COMCO2    | COMCO2              | COMCO2              | COMCO2              |      |
| PLACEMENT        | BRFOSO    | BRFOSO              | BRFOSO              | BRFOSO              |      |
| NOZZLE           | FLATFAN   | FLATFAN             | FLATFAN             | FLATFAN             |      |
| NOZZLE NUMBER    | 6         | 6                   | 6                   | 6                   |      |
| NOZZLE SPACING   | 20.000    | 20.000              | 20.000              | 20.000              | IN   |
| SWATH WIDTH      | 10.0      | 10.0                | 10.0                | 10.0                | FT   |
| SPRAY VOLUME     | 20.00     | 20.00               | 20.00               | 20.00               |      |
| VOLUME UNIT      | GPA       | GPA                 | GPA                 | GPA                 |      |
| PRESSURE         | 32.00     | 32.00               | 32.00               | 32.00               | PSI  |
| DILUENT          | WATER     | WATER               | WATER               | WATER               |      |
| INC. DATE        |           |                     |                     |                     | AME  |
| INC. START       |           |                     |                     |                     | 24H  |
| INC. END         |           |                     |                     |                     | 24H  |
| INC. DEPTH       |           |                     |                     |                     | IN   |
| INC. EQUIPMENT   | ---       | ---                 | ---                 | ---                 |      |
| DENSITY /        |           |                     |                     |                     |      |
| *** PEST ***     |           |                     |                     |                     |      |
| WATERHEMP, COMMO |           | MED/14<br>1.00/1.00 | HGH/17<br>6.00/6.00 | HGH/19<br>12.0/12.0 | IN   |
| SOYBEAN          | ---/01    | ---/13              | ---/15              | ---/18              |      |
| ASGROW 3701RR    | /         | 4.00/4.00           | 9.00/9.00           | 12.0/12.0           | IN   |
| 06/24/2003       |           |                     |                     |                     |      |

## \* TIMING CODES

09 = ----- / PREEMERGENCE  
11 = ----- / EPOST  
12 = ----- / POST  
13 = ----- / LPOST

## \* STAGE CODE

01 = BEGINNING OF SEED IMBIBITION  
13 = 3RD LEAF (1ST TRIFOLIATE LEAF) UNFOLDED, 2 NODES  
14 = 4TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED  
15 = 5TH LEAF (3RD TRIFOLIATE LEAF) UNFOLDED, 4 NODES  
17 = 7TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED  
18 = 8TH LEAF (6TH TRIFOLIATE LEAF) UNFOLDED, 7 NODES  
19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

**TITLE:** Waterhemp Resistance Management in Soybean - Altamont  
**CREATED:** 05/06/2003 **REVISED:** 10/28/2003 **COMPLETED:** N  
**PROJECT TYPE:** HERBICIDE  
**LOCATION:** Altamont **RESEARCHED BY:** UNIV. OF IL  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 10.00 FT **WIDE X** 30.00 FT **LONG** **REPS:** 03

| TRT  | TREATMENT      | DOSAGE | GLXMA | AMATA | GLXMA    | AMATA    | GLXMA    | AMATA    |
|------|----------------|--------|-------|-------|----------|----------|----------|----------|
| NUM  | COMPONENT      | RATE   | UNIT  | TM    | CON %    | CON %    | CON %    | CON %    |
|      |                |        |       |       | 07/24/03 | 07/24/03 | 08/08/03 | 08/08/03 |
|      |                |        |       |       |          |          |          |          |
| 1A   | CHECK          | 0.00   | NA    | 0     | 0.00     | 0        | 0        | 0        |
| 2A»  | TOUCHDN KPMG 4 | 0.75   | LAA   | 11    | 0.00     | 99       | 0        | 99       |
| B»   | LIQUID AMS     | 5.00   | PMV   | 11    |          |          |          |          |
| 3A»  | WEATHERMAX 4.5 | 0.75   | LAA   | 11    | 0.00     | 97       | 0        | 82       |
| B»   | LIQUID AMS     | 5.00   | PMV   | 11    |          |          |          |          |
| 4A»  | FLEXSTAR 1.88M | 0.294  | LAA   | 11    | 0.00     | 97       | 0        | 90       |
| B    | FUSION         | 0.21   | LAA   | 11    |          |          |          |          |
| C    | 28% UAN        | 2.50   | PMV   | 11    |          |          |          |          |
| D»   | COC            | 1.00   | PMV   | 11    |          |          |          |          |
| 5A»  | FLEXSTAR 1.88M | 0.176  | LAA   | 11    | 0.00     | 96       | 0        | 98       |
| B»   | TOUCHDN KPMG 4 | 0.75   | LAA   | 11    |          |          |          |          |
| 6A»  | TOUCHDN KPMG 4 | 0.75   | LAA   | 12    | 0.00     | 99       | 0        | 99       |
| B»   | LIQUID AMS     | 5.00   | PMV   | 12    |          |          |          |          |
| 7A»  | WEATHERMAX 4.5 | 0.75   | LAA   | 12    | 0.00     | 98       | 0        | 98       |
| B»   | LIQUID AMS     | 5.00   | PMV   | 12    |          |          |          |          |
| 8A»  | TOUCHDN KPMG 4 | 1.13   | LAA   | 12    | 0.00     | 98       | 0        | 99       |
| B»   | LIQUID AMS     | 5.00   | PMV   | 12    |          |          |          |          |
| 9A»  | WEATHERMAX 4.5 | 1.13   | LAA   | 12    | 0.00     | 99       | 0        | 99       |
| B»   | LIQUID AMS     | 5.00   | PMV   | 12    |          |          |          |          |
| 10A» | TOUCHDN KPMG 4 | 0.75   | LAA   | 12    | 13.00    | 98       | 0        | 98       |
| B    | BUTYRAC 2SL    | 0.063  | LAA   | 12    |          |          |          |          |
| C»   | LIQUID AMS     | 5.00   | PMV   | 12    |          |          |          |          |
| 11A» | TOUCHDN KPMG 4 | 0.75   | LAA   | 13    |          |          | 0        | 99       |
| B»   | LIQUID AMS     | 5.00   | PMV   | 13    |          |          |          |          |
| 12A» | WEATHERMAX 4.5 | 0.75   | LAA   | 13    |          |          | 0        | 99       |
| B»   | LIQUID AMS     | 5.00   | PMV   | 13    |          |          |          |          |
| 13A» | TOUCHDN KPMG 4 | 1.13   | LAA   | 13    |          |          | 0        | 99       |
| B»   | LIQUID AMS     | 5.00   | PMV   | 13    |          |          |          |          |
| 14A» | WEATHERMAX 4.5 | 1.13   | LAA   | 13    |          |          | 0        | 99       |
| B»   | LIQUID AMS     | 5.00   | PMV   | 13    |          |          |          |          |
| 15A» | AUTHORITY      | 0.25   | LAA   | 9     | 0.00     | 85       | 0        | 86       |
| 16A» | VALOR 51WDG    | 0.094  | LAA   | 9     | 0.00     | 76       | 0        | 70       |
| 17A» | AUTHORITY      | 0.25   | LAA   | 9     | 0.00     | 85       | 0        | 98       |
| B»   | TOUCHDN KPMG 4 | 0.75   | LAA   | 13    |          |          |          |          |
| C»   | LIQUID AMS     | 5.00   | PMV   | 13    |          |          |          |          |
| 18A» | VALOR 51WDG    | 0.094  | LAA   | 9     | 0.00     | 98       | 0        | 99       |
| B»   | WEATHERMAX 4.5 | 0.75   | LAA   | 13    |          |          |          |          |
| C»   | LIQUID AMS     | 5.00   | PMV   | 13    |          |          |          |          |
| 19A» | DUAL MAGNUM 7. | 1.43   | LAA   | 9     | 0.00     | 93       | 0        | 99       |
| B»   | TOUCHDN KPMG 4 | 0.75   | LAA   | 13    |          |          |          |          |
| C»   | LIQUID AMS     | 5.00   | PMV   | 13    |          |          |          |          |
| 20A  | PROWL 3.3EC    | 1.24   | LAA   | 9     | 0.00     | 77       | 0        | 99       |
| B»   | TOUCHDN KPMG 4 | 0.75   | LAA   | 13    |          |          |          |          |
| C»   | LIQUID AMS     | 5.00   | PMV   | 13    |          |          |          |          |
| 21A» | DOMAIN 60DF    | 0.45   | LAA   | 9     | 0.00     | 67       | 0        | 99       |
| B»   | TOUCHDN KPMG 4 | 0.75   | LAA   | 13    |          |          |          |          |
| C»   | LIQUID AMS     | 5.00   | PMV   | 13    |          |          |          |          |

**TITLE:** Waterhemp Resistance Management in Soybean - Altamont

| TRT                | TREATMENT        | DOSAGE | GLXMA | AMATA | GLXMA    | AMATA    | GLXMA    | AMATA    |
|--------------------|------------------|--------|-------|-------|----------|----------|----------|----------|
| NUM                | COMPONENT        | RATE   | UNIT  | TM    | CON %    | CON %    | CON %    | CON %    |
|                    |                  |        |       |       | 07/24/03 | 07/24/03 | 08/08/03 | 08/08/03 |
|                    |                  |        |       |       |          |          |          |          |
| 22A»               | DUAL MAGNUM 7.   | 1.43   | LAA   | 9     | 0.00     | 89       | 0        | 98       |
|                    | B»AUTHORITY      | 0.188  | LAA   | 9     |          |          |          |          |
|                    | C»TOUCHDN KPMG 4 | 0.75   | LAA   | 13    |          |          |          |          |
|                    | D»LIQUID AMS     | 5.00   | PMV   | 13    |          |          |          |          |
| 23A»               | DUAL MAGNUM 7.   | 1.43   | LAA   | 9     | 0.00     | 77       | 0        | 98       |
|                    | B»CANOPY XL 56.3 | 0.21   | LAA   | 12    |          |          |          |          |
|                    | C CLASSIC 25WG   | 0.042  | LAA   | 9     |          |          |          |          |
|                    | D»AUTHORITY      | 0.168  | LAA   | 9     |          |          |          |          |
|                    | E»TOUCHDN KPMG 4 | 0.75   | LAA   | 13    |          |          |          |          |
|                    | F»LIQUID AMS     | 5.00   | PMV   | 13    |          |          |          |          |
| 24A»               | BOUNDARY 6.5EC   | 1.22   | LAA   | 9     | 0.00     | 88       | 0        | 99       |
|                    | B»TOUCHDN KPMG 4 | 0.75   | LAA   | 13    |          |          |          |          |
|                    | C»LIQUID AMS     | 5.00   | PMV   | 13    |          |          |          |          |
| 25A»               | BOUNDARY 6.5EC   | 1.46   | LAA   | 9     | 0.00     | 82       | 0        | 98       |
|                    | B»TOUCHDN KPMG 4 | 0.75   | LAA   | 13    |          |          |          |          |
|                    | C»LIQUID AMS     | 5.00   | PMV   | 13    |          |          |          |          |
| 26A»               | BOUNDARY 6.5EC   | 1.22   | LAA   | 9     | 0.00     | 88       | 0        | 99       |
|                    | B»FLEXSTAR 1.88M | 0.294  | LAA   | 13    |          |          |          |          |
|                    | C FUSION         | 0.21   | LAA   | 13    |          |          |          |          |
|                    | D»COC            | 1.00   | PMV   | 13    |          |          |          |          |
|                    | E 28% UAN        | 2.50   | PMV   | 13    |          |          |          |          |
| LSD (0.05)         |                  |        |       |       | 0.943    | 17.30    | 0.00     | 10.27    |
| STANDARD DEVIATION |                  |        |       |       | 0.471    | 8.65     | 0.00     | 5.13     |
|                    |                  |        |       |       |          |          | 0.00     | 13.00    |
|                    |                  |        |       |       |          |          | 0.00     | 6.49     |

» = SUPPLEMENTAL CHEMICAL

## \* TIMING CODES

00 = ----- / UNTREATED TIMING  
 09 = ----- / PREEMERGENCE 06/25/2003(1)  
 11 = ----- / EPOST 07/07/2003(2)  
 12 = ----- / POST 07/17/2003(3)  
 13 = ----- / LPOST 07/24/2003(4)

| H#  | CUSTOM#1 | CUSTOM#2 | EV.DATE    | S# | TYP | SPECIE | STAGE | RAW | PRT | SYM | MTH | CNF | BASIS   | C.M | CTRT | SS | NOTE |
|-----|----------|----------|------------|----|-----|--------|-------|-----|-----|-----|-----|-----|---------|-----|------|----|------|
| 001 | GLXMA    | CON %    | 07/24/2003 | 01 | P   | GLXMA  | 18    | RAW | ALL | CON | %   | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 002 | AMATA    | CON %    | 07/24/2003 | 02 | P   | AMATA  | 19    | RAW | ALL | CON | %   | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 003 | GLXMA    | CON %    | 08/08/2003 | 01 | P   | GLXMA  |       | RAW | ALL | CON | %   | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 004 | AMATA    | CON %    | 08/08/2003 | 02 | P   | AMATA  |       | RAW | ALL | CON | %   | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 005 | GLXMA    | CON %    | 08/22/2003 | 01 | P   | GLXMA  |       | RAW | ALL | CON | %   | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 006 | AMATA    | CON %    | 08/22/2003 | 02 | P   | AMATA  |       | RAW | ALL | CON | %   | --- | 1.00 PL | NO  | 0001 | 0  | N    |

## \* SPECIES COMMON NAME - CULTIVAR (IF APPLICABLE)

01 = ASGROW 3701RR

## \* STAGE CODE

18 = 8TH LEAF (6TH TRIFOLIATE LEAF) UNFOLDED, 7 NODES  
 19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED