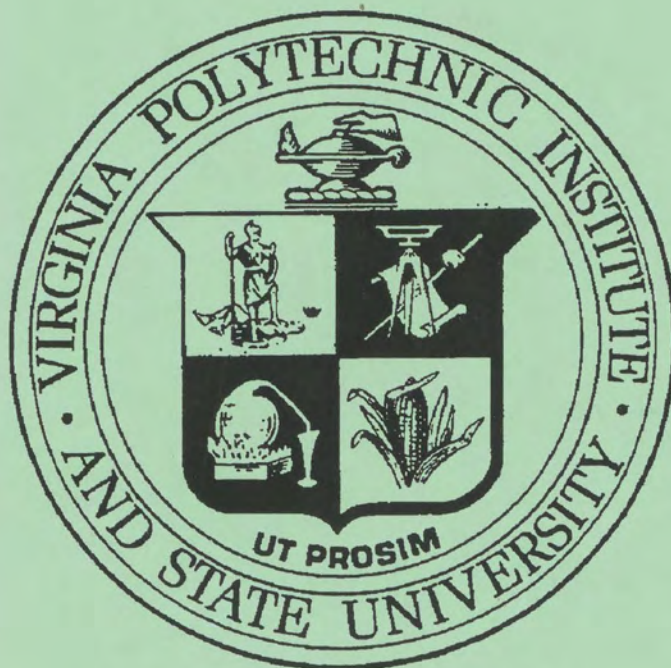


# **SUMMARY OF 1993 WEED CONTROL TRIALS FOR AGRONOMIC CROPS**



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**INFORMATION NOTE 166  
OCTOBER, 1993**

This publication contains a summary of selected research trials conducted in 1993 in the area of agronomic crop weed control. It is intended as a means of sharing preliminary results with industry cooperators and weed scientists in adjacent states. No publication or other use of the data contained should be made without the permission of the author.

The plot work from which these results are drawn was conducted with the assistance of Claude Kenley and John Eberwine. The work was conducted on university land at Whitethorne and Blacksburg, Virginia or on grower's land in cooperation with Reuben Blanton (Amelia), Charles Shorter (Montgomery), Paul Davis (New Kent) and W. D. Harris (Spotsylvania). Appreciation is extended to these cooperators for their help in providing plot land and equipment.

For each experiment, an experiment description form containing experiment procedures and characteristics precedes the data table for that experiment. Weed control data are presented as percent control by species except as noted. In addition, and "overall" efficacy rating is generally provided and reflects the general appearance of the plot. Overall ratings are presented using a 0-10 scale where 0 indicates a general appearance not different from the control plot and 10 indicates a totally weed free plot. Crop vigor ratings are reported for all experiments in which significant effects of herbicide treatments on the crop were observed. Crop vigor ratings are presented using a 0-10 scale where 0 = no injury and 10 = death of the plant.

The 1993 growing season was moderate at Whitethorne early in the season, and dry in late July and August. Postemergence herbicide applications were generally made to vigorous, actively growing weeds. A summary of daily temperatures and rainfall for each location is contained at the back of the booklet.

An index of experiments contained in this publication can be found on the following page. Any questions regarding this publication can be directed to:

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Department of Plant Pathology, Physiology and Weed Science Information Note Number 166, October, 1993.

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## BAYER CODES USED IN 1993

Explanation: Bayer codes are used in the headers of the data tables to identify weeds and crop species evaluated.

| BAYER<br>CODE | Scientific name                | Common name               |
|---------------|--------------------------------|---------------------------|
| ABUTH         | <i>Theophrasti medicus</i>     | velvetleaf                |
| AMARE         | <i>Amaranthus retroflexus</i>  | redroot pigweed           |
| AMBTR         | <i>Ambrosia trifida</i>        | giant ragweed             |
| CHEAL         | <i>Chenopodium album</i>       | common lambsquarter       |
| CYPES         | <i>Cyperus esculentus</i>      | yellow nutsedge           |
| DATST         | <i>Datura stramonium</i>       | jimsonweed                |
| DIGSA         | <i>Digitaria sanguinalis</i>   | large crabgrass           |
| IPOHE         | <i>Ipomoea hederacea</i>       | ivyleaf morningglory      |
| IPOLA         | <i>Ipomoea lacunosa</i>        | pitted morningglory       |
| LOLMU         | <i>Lolium multiflorum</i>      | italian ryegrass          |
| PANDI         | <i>Panicum dichotomiflorum</i> | fall panicum              |
| PLOPY         | <i>Polygonum pensylvanicum</i> | pennsylvania smartweed    |
| SIDSP         | <i>Sida spinosa</i>            | prickly sida              |
| SOLAM         | <i>Solanum americanum</i>      | american black nightshade |
| SOLPT         | <i>Solanum ptycanthum</i>      | eastern black nightshade  |
| SORHA         | <i>Sorghum halapense</i>       | johnsongrass              |
| ZEAMX         | <i>Zea mays</i>                | corn                      |

From Composite List of Weeds, Revised 1989, WSSA.

10-20-93 (ALFSPR93.DD)

SITE DESC.

VPI &amp; SU

Herbicide Tolerance in Spring Seeded Alfalfa

Project Code:WCSEEDALF93

Location :Blacksburg, Va.

Cooperator :E.S. Hagood, Jr.

By:Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-1993

Variety ARROW

Row Width 7" DRILL

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance NO-TILL INTO CORN STUBBLE

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand \_\_\_\_\_ % Silt \_\_\_\_\_

Soil Series CANEYVILLE

% OM 1.5

pH

6.5

% Clay \_\_\_\_\_

CEC \_\_\_\_\_

## Application Information

A

B

C

D

E

F

Date Treated

6-8-93

8-5-93

Time Treated

1-2 PM

2-3 PM

Cloud Cover

20% HAZY

50%

Air Temperature

84 F

84 F

Relative Humidity

85%

75%

Wind Speed/Direction

5-7 SW

5-7 SW

Soil Temperature

Soil/Leaf Surface Moisture

DRY

DRY

Soil Subsurface Moisture

DRY

DRY

Soil Tilth

GOOD

DRY

Crop Stage

POST

POST-CUT

Pest Name, Stage &amp; Density

PANDI

4-6"

## Application Equipment

Sprayer  
TypeSpeed  
MPHNozzle  
TypeNozzle  
SizeNozzle  
HeightNozzle  
SpacingBoom  
Width

GPA

Carrier

PSI

1. CO/2 BACKPACK

3.1

FLAT FAN

8003 LP

20"

18"

72"

22.5

WATER

24

2. CO/2 BACKPACK

3.1

FLAT FAN

8003

20"

18"

72"

22.5

WATER

34

3.

4.

5.

6.

## Comments

10-20-93 (ALFSPR93.DAT)

SUMMARY

VPI &amp; SU

## Herbicide Tolerance in Spring Seeded Alfalfa

Project Code:WCSEEDALF93

Location :Blacksburg, Va.

Cooperator :E.S. Hagood, Jr..

By:Dept. Plant Path., Phys.,

|                  |         |        |        |        |
|------------------|---------|--------|--------|--------|
| Weed/Crop Code   | INJURY  | INJURY | PANDI  | INJURY |
| Rating Data Type | VISUAL  | VISUAL | VISUAL | VISUAL |
| Rating Unit      | 0-10    | 0-10   | 0-100  | 0-10   |
| Rating Date      | 6-18-93 | 7-9-93 | 7-9-93 | 9-2-93 |

| Trt Treatment | Form Fm     | Rate         | Grow | Appl |       |        |          |       |
|---------------|-------------|--------------|------|------|-------|--------|----------|-------|
| No Name       | Amt Ds      | Rate Unit    | Stg  | Code |       |        |          |       |
| 01 CONTROL    |             |              |      |      | 0.0 c | 0.0 d  | 0.0 d    | 0.0 b |
| 02 POAST PLUS | 1.0 EC 0.14 | lb ai/A POST |      |      | 0.0 c | 0.0 d  | 97.5 ab  | 0.0 b |
| 02 DASH       | L 0.5       | % v/v POST   |      |      |       |        |          |       |
| 03 POAST PLUS | 1.0 EC 0.19 | lb ai/A POST |      |      | 0.0 c | 0.0 d  | 92.5 abc | 0.0 b |
| 03 DASH       | L 0.5       | % v/v POST   |      |      |       |        |          |       |
| 04 2,4-DB     | 2.0 L .500  | lb ai/A POST |      |      | 0.0 c | 0.5 cd | 0.0 d    | 0.0 b |
| 04 DASH       | L 0.5       | % v/v POST   |      |      |       |        |          |       |
| 05 2,4-DB     | 2.0 L 1.00  | lb ai/A POST |      |      | 0.0 c | 0.3 d  | 0.0 d    | 0.0 b |
| 05 DASH       | L 0.5       | % v/v POST   |      |      |       |        |          |       |
| 06 PURSUIT    | 2.0 L 0.032 | lb ai/A POST |      |      | 0.0 c | 0.3 d  | 85.0 bc  | 0.0 b |
| 06 DASH       | L 0.5       | % v/v POST   |      |      |       |        |          |       |
| 07 PURSUIT    | 2.0 L 0.063 | lb ai/A POST |      |      | 0.0 c | 0.8 cd | 92.5 abc | 0.0 b |
| 07 DASH       | L 0.5       | % v/v POST   |      |      |       |        |          |       |
| 08 POAST PLUS | 1.0 EC 0.14 | lb ai/A POST |      |      | 0.0 c | 0.8 cd | 100.0 a  | 0.0 b |
| 08 2,4-DB     | 2.0 L 0.50  | lb ai/A POST |      |      |       |        |          |       |
| 08 DASH       | L 0.5       | % v/v POST   |      |      |       |        |          |       |
| 09 POAST PLUS | 1.0 EC 0.19 | lb ai/A POST |      |      | 0.0 c | 0.5 cd | 100.0 a  | 0.0 b |
| 09 2,4-DB     | 2.0 L 0.50  | lb ai/A POST |      |      |       |        |          |       |
| 09 DASH       | L 0.5       | % v/v POST   |      |      |       |        |          |       |
| 10 POAST PLUS | 1.0 EC 0.14 | lb ai/A POST |      |      | 0.0 c | 0.5 cd | 88.8 abc | 0.0 b |
| 10 PURSUIT    | 2.0 L 0.016 | lb ai/A POST |      |      |       |        |          |       |
| 10 DASH       | L 0.5       | % v/v POST   |      |      |       |        |          |       |
| 11 POAST PLUS | 1.0 EC 0.14 | lb ai/A POST |      |      | 0.0 c | 0.5 cd | 96.3 abc | 0.0 b |
| 11 PURSUIT    | 2.0 L 0.032 | lb ai/A POST |      |      |       |        |          |       |
| 11 DASH       | L 0.5       | % v/v POST   |      |      |       |        |          |       |
| 12 POAST PLUS | 1.0 EC 0.19 | lb ai/A POST |      |      | 0.0 c | 1.5 c  | 97.5 ab  | 0.0 b |
| 12 PURSUIT    | 2.0 L 0.016 | lb ai/A POST |      |      |       |        |          |       |
| 12 DASH       | L 0.5       | % v/v POST   |      |      |       |        |          |       |
| 13 POAST PLUS | 1.0 EC 0.19 | lb ai/A POST |      |      | 4.8 a | 4.5 a  | 97.5 ab  | 0.0 b |
| 13 PURSUIT    | 2.0 L 0.032 | lb ai/A POST |      |      |       |        |          |       |
| 13 DASH       | L 0.5       | % v/v POST   |      |      |       |        |          |       |

10-20-93 (ALFSPR93.DAT)

SUMMARY

VPI &amp; SU

Herbicide Tolerance in Spring Seeded Alfalfa

Project Code:WCSEEDALF93

Location :Blacksburg, Va.

Cooperator :E.S. Hagood, Jr.

By:Dept. Plant Path., Phys.,

|                  |         |        |        |        |
|------------------|---------|--------|--------|--------|
| Weed/Crop Code   | INJURY  | INJURY | PANDI  | INJURY |
| Rating Data Type | VISUAL  | VISUAL | VISUAL | VISUAL |
| Rating Unit      | 0-10    | 0-10   | 0-100  | 0-10   |
| Rating Date      | 6-18-93 | 7-9-93 | 7-9-93 | 9-2-93 |

| Trt Treatment | Form Fm     | Rate      | Grow | Appl |       |        |          |       |
|---------------|-------------|-----------|------|------|-------|--------|----------|-------|
| No Name       | Amt Ds      | Rate Unit | Stg  | Code |       |        |          |       |
| 14 POAST PLUS | 1.0 EC 0.14 | lb ai/A   | POST |      | 0.0 c | 0.3 d  | 92.5 abc | 0.0 b |
| 14 PURSUIT    | 2.0 L 0.016 | lb ai/A   | POST |      |       |        |          |       |
| 14 2,4-DB     | 2.0 L 0.50  | lb ai/A   | POST |      |       |        |          |       |
| 14 DASH       | L 0.5       | % v/v     | POST |      |       |        |          |       |
| 15 POAST PLUS | 1.0 EC 0.14 | lb ai/A   | POST |      | 2.5 b | 2.5 b  | 95.0 abc | 0.0 b |
| 15 PURSUIT    | 2.0 L 0.032 | lb ai/A   | POST |      |       |        |          |       |
| 15 2,4-DB     | 2.0 L 0.50  | lb ai/A   | POST |      |       |        |          |       |
| 15 DASH       | L 0.5       | % v/v     | POST |      |       |        |          |       |
| 16 POAST PLUS | 1.0 EC 0.14 | lb ai/A   | POST |      | 0.0 c | 0.8 cd | 100.0 a  | 0.0 b |
| 16 PURSUIT    | 2.0 L 0.016 | lb ai/A   | POST |      |       |        |          |       |
| 16 2,4-DB     | 2.0 L 0.25  | lb ai/A   | POST |      |       |        |          |       |
| 16 DASH       | L 0.5       | % v/v     | POST |      |       |        |          |       |
| 17 PURSUIT    | 2.0 L 0.047 | lb ai/A   | POST |      | 0.0 c | 0.3 d  | 92.5 abc | 0.0 b |
| 17 NIS        | L 0.25      | % v/v     | POST |      |       |        |          |       |
| 18 PURSUIT    | 2.0 L 0.062 | lb ai/A   | POST |      | 0.0 c | 0.8 cd | 83.8 c   | 0.0 b |
| 18 NIS        | L 0.25      | % v/v     | POST |      |       |        |          |       |
| 19 PURSUIT    | 2.0 L 0.094 | lb ai/A   | POST |      | 0.0 c | 0.8 cd | 100.0 a  | 0.0 b |
| 19 NIS        | L 0.25      | % v/v     | POST |      |       |        |          |       |
| 20 PURSUIT    | 2.0 L .047  | lb ai/A   | POST |      | 0.0 c | 0.5 cd | 100.0 a  | 0.0 b |
| 20 NIS        | L 0.25      | % v/v     | POST |      |       |        |          |       |
| 20 LIQUID N   | L 1.00      | % v/v     | POST |      |       |        |          |       |
| 21 PURSUIT    | 2.0 L 0.062 | lb ai/A   | POST |      | 0.0 c | 0.0 d  | 93.8 abc | 0.0 b |
| 21 NIS        | L 0.25      | % v/v     | POST |      |       |        |          |       |
| 21 LIQUID N   | L 1.00      | % v/v     | POST |      |       |        |          |       |
| 22 PURSUIT    | 2.0 L 0.094 | lb ai/A   | POST |      | 0.0 c | 0.3 d  | 96.3 abc | 0.0 b |
| 22 NIS        | L 0.25      | % v/v     | POST |      |       |        |          |       |
| 22 LIQUID N   | L 1.00      | % v/v     | POST |      |       |        |          |       |
| 23 COMMAND    | 4 L 0.062   | lb ai/A   | PCUT |      | 0.0 c | 0.0 d  | 0.0 d    | 0.0 b |
| 24 COMMAND    | 4 L 0.125   | lb ai/A   | PCUT |      | 0.0 c | 0.0 d  | 0.0 d    | 0.0 b |
| 25 COMMAND    | 4 L 0.250   | lb ai/A   | PCUT |      | 0.0 c | 0.0 d  | 0.0 d    | 0.0 b |
| 26 COMMAND    | 4 L 0.062   | lb ai/A   | PCUT |      | 0.0 c | 0.0 d  | 0.0 d    | 0.0 b |
| 26 PARAQUAT   | 2.5 L 0.47  | lb ai/A   | PCUT |      |       |        |          |       |
| 26 NIS        | L 0.25      | % v/v     | PCUT |      |       |        |          |       |

10-20-93 (ALFSPR93.DAT)

## SUMMARY

## VPI &amp; SU

## Herbicide Tolerance in Spring Seeded Alfalfa

Project Code:WCSEEDALF93

Location :Blacksburg, Va.

Cooperator :E.S. Hagood, Jr.

By:Dept. Plant Path., Phys.,

|                  |         |        |        |        |
|------------------|---------|--------|--------|--------|
| Weed/Crop Code   | INJURY  | INJURY | PANDI  | INJURY |
| Rating Data Type | VISUAL  | VISUAL | VISUAL | VISUAL |
| Rating Unit      | 0-10    | 0-10   | 0-100  | 0-10   |
| Rating Date      | 6-18-93 | 7-9-93 | 7-9-93 | 9-2-93 |

| Trt Treatment     | Form Fm | Rate          | Grow | Appl |      |         |         |         |
|-------------------|---------|---------------|------|------|------|---------|---------|---------|
| No Name           | Amt     | Ds Rate       | Unit | Stg  | Code |         |         |         |
| 27 COMMAND        | 4 L     | 0.125 lb ai/A | PCUT |      |      | 0.0 c   | 0.0 d   | 0.0 d   |
| 27 PARAQUAT       | 2.5 L   | 0.47 lb ai/A  | PCUT |      |      |         |         | 0.5 b   |
| 27 NIS            | L       | 0.25 % v/v    | PCUT |      |      |         |         |         |
| 28 COMMAND        | 4 L     | 0.250 lb ai/A | PCUT |      |      | 0.0 c   | 0.0 d   | 0.0 d   |
| 28 PARAQUAT       | 2.5 L   | 0.47 lb ai/A  | PCUT |      |      |         |         | 1.0 a   |
| 28 NIS            | L       | 0.25 % v/v    | PCUT |      |      |         |         |         |
| LSD (.05) =       |         |               |      |      |      | 0.2     | 0.9     | 11.1    |
| Standard Dev.=    |         |               |      |      |      | .145857 | .640354 | 7.82458 |
| CV =              |         |               |      |      |      | 56.33   | 112.06  | 12.16   |
| Block F           |         |               |      |      |      | 0.420   | 0.232   | 0.597   |
| Block Prob(F)     |         |               |      |      |      | 0.7394  | 0.8737  | 0.6190  |
| Treatment F       |         |               |      |      |      | 187.570 | 8.665   | 133.877 |
| Treatment Prob(F) |         |               |      |      |      | 0.0001  | 0.0001  | 0.0001  |

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

- End of Report -

10-24-93 (ALFBLACK.DD)

SITE DESC.

VPI &amp; SU

Tolerance Study of Alfalfa to SU Herbicides

Project Code:ALFBLACK

Location :Blacksburg, VA.

Cooperator :E.S. Hagood

By:Dept. Plant Path., Phys., &amp; Weed Sci.

## Experimental Management

Date Planted 8-1992 Variety Anstar Row Width 7" DRILL  
 Design RCB No. Reps. 4 Plot Size 6 X 25 FEET  
 Field Preparation and Plot Maintenance NO-TILL INTO ORCHARDGRASS

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture GROSECLOSE

% Sand \_\_\_\_\_ % Silt \_\_\_\_\_

Soil Series SILT LOAM

 % OM 1.5 pH 6.3 % Clay \_\_\_\_\_  
 CEC \_\_\_\_\_

## Application Information

| A | B | C | D | E | F |
|---|---|---|---|---|---|
|---|---|---|---|---|---|

Date Treated 3-30-93

Time Treated 4-5 PM

Cloud Cover 0 %

Air Temperature 63 F

Relative Humidity MEDIUM

Wind Speed/Direction 3-5 SW

Soil Temperature \_\_\_\_\_

Soil/Leaf Surface Moisture MOIST

Soil Subsurface Moisture MOIST

Soil Tilth EXCELL

Crop Stage 2-3"

Pest Name, Stage &amp; Density \_\_\_\_\_

## Application Equipment

|    | Sprayer<br>Type | Speed<br>MPH | Nozzle<br>Type | Nozzle<br>Size | Nozzle<br>Height | Nozzle<br>Spacing | Boom<br>Width | GPA  | Carrier | PSI |
|----|-----------------|--------------|----------------|----------------|------------------|-------------------|---------------|------|---------|-----|
| 1. | CO/2 BACKPACK   | 3.1          | FLAT FAN       | 8003           | 20"              | 18"               | 72"           | 22.5 | WATER   | 32  |
| 2. |                 |              |                |                |                  |                   |               |      |         |     |
| 3. |                 |              |                |                |                  |                   |               |      |         |     |
| 4. |                 |              |                |                |                  |                   |               |      |         |     |
| 5. |                 |              |                |                |                  |                   |               |      |         |     |
| 6. |                 |              |                |                |                  |                   |               |      |         |     |

## Comments

Treatments were made to alfalfa that had begun spring growth. No treatments except Pursuit exhibited acceptable crop tolerance. Tolerance, however, would likely have been better had treatments been made prior to spring greenup.

10-24-93 (ALFBLACK.DAT)

## SUMMARY

## VPI &amp; SU

## Tolerance Study of Alfalfa to SU Herbicides

Project Code:ALFBLACK

Location :Blacksburg, VA.

Cooperator :E.S. Hagood

By:Dept. Plant Path., Phys., &amp; Weed Sci.

All rates are specified as lb ai/A

|                  |          |          |
|------------------|----------|----------|
| Weed/Crop Code   | STUNTING | CHLOROSI |
| Rating Data Type | VISUAL   | VISUAL   |
| Rating Unit      | 0-100    | 0-100    |
| Rating Date      | 4-20-93  | 4-20-93  |

| Trt No | Treatment Name | Form Amt | Fm Ds | Rate  | Grow Stg | Appl Code |         |         |
|--------|----------------|----------|-------|-------|----------|-----------|---------|---------|
| 1      | control        |          |       |       |          |           | 0.0 f   | 0.0 e   |
| 2      | ally           | 60 d     |       | .0037 | ld       |           | 65.0 ab | 15.0 cd |
| 3      | ally           | 60 d     |       | .0075 | ld       |           | 75.0 a  | 20.0 c  |
| 4      | ally           | 60 d     |       | .0150 | ld       |           | 72.5 a  | 20.0 c  |
| 5      | harmony extra  | 75 d     |       | .0155 | ld       |           | 50.0 c  | 12.5 cd |
| 6      | harmony extra  | 75 d     |       | .0310 | ld       |           | 47.5 c  | 10.0 d  |
| 7      | harmony extra  | 75 d     |       | .0620 | ld       |           | 57.5 bc | 17.5 cd |
| 8      | command        | 4.00 l   |       | .0625 | ld       |           | 15.0 e  | 70.0 a  |
| 9      | command        | 4.00 l   |       | .125  | ld       |           | 7.5 ef  | 72.5 a  |
| 10     | command        | 4.00 l   |       | .250  | ld       |           | 30.0 d  | 77.5 a  |
| 11     | pursuit        | 2.00 l   |       | .0312 | ld       |           | 0.0 f   | 0.0 e   |
| 12     | pursuit        | 2.00 l   |       | .0625 | ld       |           | 0.0 f   | 0.0 e   |
| 13     | command        | 4.00 l   |       | .0625 | ld       |           | 12.5 ef | 52.5 b  |
| 13     | pursuit        | 2.00 l   |       | .0312 | ld       |           |         |         |
| 14     | command        | 4.00 l   |       | .125  | ld       |           | 20.0 de | 72.5 a  |
| 14     | pursuit        | 2.00 l   |       | .0312 | ld       |           |         |         |

|                |   |         |         |
|----------------|---|---------|---------|
| LSD (.05)      | = | 11.6    | 8.8     |
| Standard Dev.= |   | 8.13969 | 6.15728 |
| CV             | = | 25.18   | 19.59   |

|                   |  |        |        |
|-------------------|--|--------|--------|
| Block F           |  | 2.471  | 5.903  |
| Block Prob(F)     |  | 0.0761 | 0.0020 |
| Treatment F       |  | 47.745 | 96.855 |
| Treatment Prob(F) |  | 0.0001 | 0.0001 |

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

- End of Report -

10-24-93 (HOELON93.DD)

SITE DESC.

VPI &amp; SU

HOELON RESISTANT ANNUAL RYEGRASS ?

Project Code:HOELON93

Location :BRUNSWICK, VA.

Cooperator :E.S. HAGOOD

By:DEPT. PLANT PATH., PHYS., &amp; WEED SCI.

## Experimental Management

Date Planted N/A

Variety FALLOW

Row Width N/A

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance DOUBLE CROP SOYBEAN STUBBLE

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture CLAY LOAM

% Sand \_\_\_\_\_ % Silt \_\_\_\_\_

% Clay \_\_\_\_\_

Soil Series GEORGEVILLE

% OM 1.5

pH 6.0

CEC \_\_\_\_\_

## Application Information

A

B

C

D

E

F

Date Treated 2-10-93

Time Treated 11:30 AM

Cloud Cover 0%

Air Temperature 52 F

Relative Humidity 25%

Wind Speed/Direction 3-5 W

Soil Temperature 40 F

Soil/Leaf Surface Moisture DRY

Soil Subsurface Moisture MOIST

Soil Tilth COM-SURF

Crop Stage

Pest Name, Stage &amp; Density

LOLMU

2-3"

2-5" DIAMETER

## Application Equipment

Sprayer  
TypeSpeed  
MPHNozzle  
TypeNozzle  
SizeNozzle  
HeightNozzle  
SpacingBoom  
Width

GPA

Carrier PSI

1. CO/2 BACKPACK

3.1

FLAT FAN

8003

20"

18"

72"

22.5

WATER

32

2.

3.

4.

5.

6.

## Comments

10-24-93 (HOELON93.DAT)

## SUMMARY

## VPI &amp; SU

## HOELON RESISTANT ANNUAL RYEGRASS ?

Project Code:HOELON93

Location :BRUNSWICK, VA.

Cooperator :E.S. HAGOOD

By:DEPT. PLANT PATH., PHYS., &amp; WEED SCI.

All rates are specified as lb ai/A

|                  |         |         |        |         |         |         |         |
|------------------|---------|---------|--------|---------|---------|---------|---------|
| Weed/Crop Code   | LOLMV   | LOLMV   | LOLMV  | LOLMV   | LOLMV   | LOLMV   | LOLMV   |
| Rating Data Type | VIGOR   | CONTROL | VIGOR  | CONTROL | VIGOR   | CONTROL | CONTROL |
| Rating Unit      | 0-10    | 0-100   | 0-10   | 0-100   | 0-10    | 0-100   | 0-100   |
| Rating Date      | 3-25-93 | 3-25-93 | 5-2-93 | 5-2-93  | 5-16-93 | 5-16-93 | 6-14-93 |

| Trt Treatment     | Form Fm     | Grow | Appl |         |         |         |         |         |         |         |
|-------------------|-------------|------|------|---------|---------|---------|---------|---------|---------|---------|
| No Name           | Amt Ds Rate | Stg  | Code |         |         |         |         |         |         |         |
| 1 HOELON          | 3.00 L .500 | POST |      | 0.5 ef  | 5.0 e   | 1.0 bc  | 16.3 d  | 0.5 bc  | 12.5 d  | 21.3 d  |
| 2 HOELON          | 3.00 L 1.00 | POST |      | 1.3 e   | 11.3 de | 1.8 abc | 43.8 c  | 1.0 abc | 37.5 c  | 57.5 c  |
| 3 HOELON          | 3.00 L 2.00 | POST |      | 2.5 d   | 22.5 cd | 2.5 ab  | 68.8 b  | 1.8 a   | 61.3 b  | 72.5 b  |
| 4 HOELON          | 3.00 L 4.00 | POST |      | 4.0 c   | 36.3 c  | 2.8 ab  | 77.5 ab | 2.0 a   | 76.3 a  | 82.5 ab |
| 5 HOELON          | 3.00 L 6.00 | POST |      | 6.0 b   | 58.8 b  | 2.3 ab  | 83.8 a  | 2.0 a   | 83.8 a  | 87.5 a  |
| 6 HOELON          | 3.00 L 8.00 | POST |      | 7.8 a   | 80.0 a  | 3.3 a   | 87.5 a  | 1.5 ab  | 86.3 a  | 91.3 a  |
| 7 CONTROL         |             |      |      | 0.0 f   | 0.0 e   | 0.0 c   | 0.0 e   | 0.0 c   | 0.0 e   | 0.0 e   |
| LSD (.05) =       |             |      |      | 1.1     | 16.1    | 1.7     | 10.4    | 1.1     | 11.0    | 10.7    |
| Standard Dev.=    |             |      |      | .715476 | 10.8562 | 1.13739 | 6.98638 | .715476 | 7.37327 | 7.20312 |
| CV =              |             |      |      | 22.77   | 35.55   | 58.98   | 12.95   | 57.24   | 14.44   | 12.22   |
| Block F           |             |      |      | 2.791   | 2.008   | 3.276   | 5.098   | 1.000   | 6.416   | 7.090   |
| Block Prob(F)     |             |      |      | 0.0702  | 0.1490  | 0.0450  | 0.0100  | 0.4155  | 0.0038  | 0.0024  |
| Treatment F       |             |      |      | 66.395  | 29.960  | 3.847   | 98.659  | 4.721   | 89.803  | 96.304  |
| Treatment Prob(F) |             |      |      | 0.0001  | 0.0001  | 0.0121  | 0.0001  | 0.0047  | 0.0001  | 0.0001  |

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

- End of Report -

10-3-93 (NAF2COCO.DD)

SITE DESC.

VPI &amp; SU

BROADSTRIKE-DUAL IN CONVENTIONAL CORN

Project Code:93-R3-C005

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:DEPT. PLANT PATH., PHYS.,

## Experimental Management

Date Planted 5-11-93

Variety PIONEER 3154

Row Width 30"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance SPRING PLOW, DISK AND ROTO-TILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand

% Silt

% Clay

Soil Series ROSS

% OM

2.5

pH

6.3

CEC

## Application Information

A

B

C

D

E

F

Date Treated

5-11-93

Time Treated

11:30 AM

Cloud Cover

10%

Air Temperature

80 F

Relative Humidity

80%

Wind Speed/Direction

0-3 SW

Soil Temperature

Soil/Leaf Surface Moisture

DRY

Soil Subsurface Moisture

MOIST

Soil Tilth

FAIR

Crop Stage

PRE

Pest Name, Stage &amp; Density

## Application Equipment

Sprayer  
TypeSpeed  
MPHNozzle  
TypeNozzle  
SizeNozzle  
HeightNozzle  
SpacingBoom  
Width

GPA

Carrier

PSI

1. CO/2 BACKPACK

3.1

FLAT FAN

8003

20"

18"

72'

22.5

WATER

32

2. \_\_\_\_\_

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## Comments

10-3-93 (NAF2COCO.DAT)

## SUMMARY

VPI &amp; SU

## BROADSTRIKE-DUAL IN CONVENTIONAL CORN

Project Code:93-R3-COO5

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:DEPT. PLANT PATH., PHYS.,

All rates are specified as lb ai/A

|                  |        |        |         |        |        |        |        |
|------------------|--------|--------|---------|--------|--------|--------|--------|
| Weed/Crop Code   | INJURY | INJURY | OVERALL | AMBTR  | IPOHE  | DATST  | SIDSP  |
| Rating Data Type | VISUAL | VISUAL | VISUAL  | VISUAL | VISUAL | VISUAL | VISUAL |
| Rating Unit      | 0 - 10 | 0 - 10 | 0 - 10  | 0-100  | 0-100  | 0-100  | 0-100  |
| Rating Date      | 6-1-93 | 6-7-93 | 6-7-93  | 6-7-93 | 6-7-93 | 6-7-93 | 6-7-93 |

| Trt Treatment     | Form Fm     | Grow | Appl |         |         |         |         |          |         |          |
|-------------------|-------------|------|------|---------|---------|---------|---------|----------|---------|----------|
| No Name           | Amt Ds Rate | Stg  | Code |         |         |         |         |          |         |          |
| 1 NAF-2           | 7.66 L 1.68 | PRE  |      | 0.5 ab  | 0.0 a   | 81.3 a  | 81.3 ab | 50.0 c   | 90.0 ab | 86.3 c   |
| 2 NAF-2           | 7.66 L 1.92 | PRE  |      | 0.0 b   | 0.0 a   | 82.5 a  | 77.5 b  | 56.3 bc  | 88.8 b  | 88.8 bc  |
| 3 NAF-2           | 7.66 L 2.15 | PRE  |      | 0.8 a   | 0.3 a   | 88.8 a  | 88.8 ab | 53.8 c   | 96.3 ab | 98.8 a   |
| 4 NAF-2           | 7.66 L 1.68 | PRE  |      | 0.3 ab  | 0.0 a   | 82.5 a  | 80.0 ab | 63.8 abc | 93.8 ab | 92.5 abc |
| 4 ATRAZINE        | 4.00 L 1.00 | PRE  |      |         |         |         |         |          |         |          |
| 5 NAF-72          | 86 D .215   | PRE  |      | 0.0 b   | 0.0 a   | 88.8 a  | 92.5 a  | 76.3 a   | 96.3 ab | 93.8 ab  |
| 5 DUAL            | 8.00 L 1.50 | PRE  |      |         |         |         |         |          |         |          |
| 6 LASSO           | 4.00 L 2.00 | PRE  |      | 0.3 ab  | 0.0 a   | 90.0 a  | 88.8 ab | 73.8 ab  | 97.5 a  | 92.5 abc |
| 6 ATRAZINE        | 4.00 L 1.50 | PRE  |      |         |         |         |         |          |         |          |
| 7 CONTROL         |             |      |      | 0.0 b   | 0.0 a   | 0.0 b   | 0.0 c   | 0.0 d    | 0.0 c   | 0.0 d    |
| LSD (.05) =       |             |      |      | 0.6     | 0.3     | 12.1    | 11.5    | 17.6     | 7.0     | 6.2      |
| Standard Dev.=    |             |      |      | .398410 | .188983 | 8.17711 | 7.72802 | 11.8313  | 4.69295 | 4.17855  |
| CV =              |             |      |      | 159.36  | 529.15  | 11.14   | 10.63   | 22.16    | 5.84    | 5.29     |
| Block F           |             |      |      | 0.825   | 1.000   | 0.761   | 1.012   | 0.534    | 6.108   | 1.159    |
| Block Prob(F)     |             |      |      | 0.4971  | 0.4155  | 0.5305  | 0.4105  | 0.6651   | 0.0047  | 0.3527   |
| Treatment F       |             |      |      | 2.100   | 1.000   | 63.427  | 70.794  | 18.644   | 230.027 | 281.045  |
| Treatment Prob(F) |             |      |      | 0.1040  | 0.4552  | 0.0001  | 0.0001  | 0.0001   | 0.0001  | 0.0001   |

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

10-3-93 (NAF2COCO.DAT)

## SUMMARY

VPI &amp; SU

## BROADSTRIKE-DUAL IN CONVENTIONAL CORN

Project Code:93-R3-CO05

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:DEPT. PLANT PATH., PHYS.,

All rates are specified as lb ai/A

| Weed/Crop Code   | CHEAL  | INJURY  | OVERALL | AMBTR   | IPOHE   | SIDSP   |
|------------------|--------|---------|---------|---------|---------|---------|
| Rating Data Type | VISUAL | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-100  | 0 - 10  | 0 - 10  | 0-100   | 0-100   | 0-100   |
| Rating Date      | 6-7-93 | 7-30-93 | 7-30-93 | 7-30-93 | 7-30-93 | 7-30-93 |

| Trt Treatment     | Form Fm         | Grow | Appl |          |        |         |         |         |         |
|-------------------|-----------------|------|------|----------|--------|---------|---------|---------|---------|
| No Name           | Amt Ds Rate     | Stg  | Code |          |        |         |         |         |         |
| 1 NAF-2           | 7.66 L 1.68 PRE |      |      | 95.0 b   | 0.0 a  | 4.5 a   | 41.3 c  | 60.0 b  | 91.3 a  |
| 2 NAF-2           | 7.66 L 1.92 PRE |      |      | 98.8 a   | 0.0 a  | 4.8 a   | 40.0 c  | 65.0 ab | 93.8 a  |
| 3 NAF-2           | 7.66 L 2.15 PRE |      |      | 100.0 a  | 0.0 a  | 5.0 a   | 60.0 ab | 62.5 ab | 92.5 a  |
| 4 NAF-2           | 7.66 L 1.68 PRE |      |      | 98.8 a   | 0.0 a  | 5.3 a   | 70.0 a  | 81.3 a  | 95.0 a  |
| 4 ATRAZINE        | 4.00 L 1.00 PRE |      |      |          |        |         |         |         |         |
| 5 NAF-72          | 86 D .215 PRE   |      |      | 98.8 a   | 0.0 a  | 6.5 a   | 77.5 a  | 67.5 ab | 97.5 a  |
| 5 DUAL            | 8.00 L 1.50 PRE |      |      |          |        |         |         |         |         |
| 6 LASSO           | 4.00 L 2.00 PRE |      |      | 98.8 a   | 0.0 a  | 5.0 a   | 47.5 bc | 73.8 ab | 95.0 a  |
| 6 ATRAZINE        | 4.00 L 1.50 PRE |      |      |          |        |         |         |         |         |
| 7 CONTROL         |                 |      |      | 0.0 c    | 0.0 a  | 0.0 b   | 0.0 d   | 0.0 c   | 0.0 b   |
| LSD (.05) =       |                 |      |      | 3.0      | 0      | 2.2     | 16.8    | 18.6    | 8.5     |
| Standard Dev.=    |                 |      |      | 2.04124  | 0      | 1.51317 | 11.2907 | 12.4921 | 5.71305 |
| CV =              |                 |      |      | 2.42     | 0      | 34.17   | 23.50   | 21.33   | 7.08    |
| Block F           |                 |      |      | 4.000    | 0.000  | 0.042   | 0.325   | 1.877   | 0.511   |
| Block Prob(F)     |                 |      |      | 0.0240   | 1.0000 | 0.9883  | 0.8076  | 0.1697  | 0.6800  |
| Treatment F       |                 |      |      | 1328.429 | 0.000  | 7.378   | 20.458  | 18.429  | 155.736 |
| Treatment Prob(F) |                 |      |      | 0.0001   | 1.0000 | 0.0004  | 0.0001  | 0.0001  | 0.0001  |

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

- End of Report -

10-24-93 (PERMCONV.DD)

SITE DESC.

VPI &amp; SU

PERMIT IN CONVENTIONAL CORN

Project Code:93-01-19-07

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-11-93

Variety PIONEER 3154

Row Width 30"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance SPRING PLOWED, DISKED AND ROTO-TILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand

% Silt

% Clay

Soil Series ROSS

% OM

2.5

pH

6.3

CEC

## Application Information

A

B

C

D

E

F

Date Treated

6-1-93

Time Treated

10-12 AM

Cloud Cover

5%

Air Temperature

63 F

Relative Humidity

55%

Wind Speed/Direction

5-7 NW

Soil Temperature

Soil/Leaf Surface Moisture MOIST

Soil Subsurface Moisture MOIST

Soil Tilth

GOOD

Crop Stage

POST

Pest Name, Stage &amp; Density

ZEAMX 4 LEAF 4"

AMBTR 4 LEAF 2-3"

DATST 1 LEAF 1.0"

ABUTH 2 LEAF .75"

## Application Equipment

|    | Sprayer<br>Type | Speed<br>MPH | Nozzle<br>Type | Nozzle<br>Size | Nozzle<br>Height | Nozzle<br>Spacing | Nozzle<br>Width | Boom<br>GPA | Carrier | PSI |
|----|-----------------|--------------|----------------|----------------|------------------|-------------------|-----------------|-------------|---------|-----|
| 1. | CO/2 BACKPACK   | 3.1          | FLAT FAN       | 8003 LP        | 20"              | 18"               | 72"             | 22.5        | WATER   | 20  |
| 2. |                 |              |                |                |                  |                   |                 |             |         |     |
| 3. |                 |              |                |                |                  |                   |                 |             |         |     |
| 4. |                 |              |                |                |                  |                   |                 |             |         |     |
| 5. |                 |              |                |                |                  |                   |                 |             |         |     |
| 6. |                 |              |                |                |                  |                   |                 |             |         |     |

## Comments

Broadcast Lasso mt at 2.50 lb. over all plots including control.

10-24-93 (PERMCONV.DAT)

## SUMMARY

\*rB

VPI & SU  
PERMIT IN CONVENTIONAL CORN

Project Code:93-01-19-07

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

Weed/Crop Code  
Rating Data Type  
Rating Unit  
Rating Date

| INJURY | INJURY  | AMBTR   | IPOHE   | IPOLA   | ABUTH   |
|--------|---------|---------|---------|---------|---------|
| VISUAL | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| 0-10   | 0-10    | 0-100   | 0-100   | 0-100   | 0-100   |
| 6-7-93 | 6-10-93 | 6-10-93 | 6-10-93 | 6-10-93 | 6-10-93 |

| Trt Treatment | Form Fm     | Rate | Grow | Appl |
|---------------|-------------|------|------|------|
| No Name       | Amt Ds Rate | Unit | Stg  | Code |

|               |        |              |      |         |       |          |          |          |         |
|---------------|--------|--------------|------|---------|-------|----------|----------|----------|---------|
| 1 1asso mt    | 4.00 l | 2.50 lb ai/A | pre  | 0.5 bcd | 0.0 a | 87.5 d   | 86.3 e   | 86.3 e   | 97.5 a  |
| 1 permit      | 75 d   | .016 lb ai/A | post |         |       |          |          |          |         |
| 1 X-77        | l      | .250 % v/v   | post |         |       |          |          |          |         |
| 2 1asso mt    | 4.00 l | 2.50 lb ai/A | pre  | 1.8 a   | 0.0 a | 91.3 cd  | 88.8 de  | 90.0 cde | 97.5 a  |
| 2 permit      | 75 d   | .032 lb ai/A | post |         |       |          |          |          |         |
| 2 X-77        | l      | .250 % v/v   | post |         |       |          |          |          |         |
| 3 1asso mt    | 4.00 l | 2.50 lb ai/A | pre  | 0.8 a-d | 0.0 a | 90.0 cd  | 88.8 de  | 90.0 cde | 90.0 ab |
| 3 banvel      | 4.00 l | .50 lb ai/A  | post |         |       |          |          |          |         |
| 4 1asso mt    | 4.00 l | 2.50 lb ai/A | pre  | 1.0 a-d | 0.0 a | 90.0 cd  | 91.3 cde | 91.3 b-e | 86.3 b  |
| 4 2,4-D ester | 4.00 l | .50 lb ai/A  | post |         |       |          |          |          |         |
| 5 1asso mt    | 4.00 l | 2.50 lb ai/A | pre  | 1.5 ab  | 0.0 a | 100.0 a  | 100.0 a  | 100.0 a  | 97.5 a  |
| 5 marksman    | 3.20 l | 2.00 lb ai/A | post |         |       |          |          |          |         |
| 6 1asso mt    | 4.00 l | 2.50 lb ai/A | pre  | 1.0 a-d | 0.0 a | 98.8 ab  | 98.8 ab  | 97.5 ab  | 95.0 ab |
| 6 atrazine    | 4.00 l | 2.00 lb ai/A | post |         |       |          |          |          |         |
| 6 COC         | l      | 1.00 % v/v   | post |         |       |          |          |          |         |
| 7 1asso mt    | 4.00 l | 2.50 lb ai/A | pre  | 0.8 a-d | 0.0 a | 88.8 d   | 90.0 de  | 91.3 b-e | 97.5 a  |
| 7 permit      | 75 d   | .032 lb ai/A | post |         |       |          |          |          |         |
| 7 banvel      | 4.00 l | .125 lb ai/A | post |         |       |          |          |          |         |
| 7 X-77        | l      | .250 % v/v   | post |         |       |          |          |          |         |
| 8 1asso mt    | 4.00 l | 2.50 lb ai/A | pre  | 0.5 bcd | 0.0 a | 91.3 cd  | 91.3 cde | 91.3 b-e | 95.0 ab |
| 8 permit      | 75 d   | .016 lb ai/A | post |         |       |          |          |          |         |
| 8 banvel      | 4.00 l | .125 lb ai/A | post |         |       |          |          |          |         |
| 8 X-77        | l      | .250 % v/v   | post |         |       |          |          |          |         |
| 9 1asso mt    | 4.00 l | 2.50 lb ai/A | pre  | 0.3 cd  | 0.0 a | 93.8 bcd | 90.0 de  | 90.0 cde | 100.0 a |
| 9 permit      | 75 d   | .032 lb ai/A | post |         |       |          |          |          |         |
| 9 2,4-D       | 4.00 l | .125 lb ai/A | post |         |       |          |          |          |         |
| 9 X-77        | l      | .250 % v/v   | post |         |       |          |          |          |         |
| 10 1asso mt   | 4.00 l | 2.50 lb ai/A | pre  | 0.3 cd  | 0.0 a | 88.8 d   | 92.5 b-e | 92.5 b-e | 100.0 a |
| 10 permit     | 75 d   | .016 lb ai/A | post |         |       |          |          |          |         |
| 10 2,4-D      | 4.00 l | .125 lb ai/A | post |         |       |          |          |          |         |
| 10 X-77       | l      | .250 % v/v   | post |         |       |          |          |          |         |
| 11 1asso mt   | 4.0 l  | .250 lb ai/A | pre  | 1.5 ab  | 0.0 a | 96.3 abc | 93.8 a-d | 93.8 bcd | 93.8 ab |
| 11 permit     | 75 d   | .032 lb ai/A | post |         |       |          |          |          |         |
| 11 atrazine   | 4.00 l | 1.00 lb ai/A | post |         |       |          |          |          |         |
| 11 COC        | l      | 1.00 % v/v   | post |         |       |          |          |          |         |

10-24-93 (PERMCONV.DAT)

SUMMARY

VPI & SU

PERMIT IN CONVENTIONAL CORN

Project Code:93-01-19-07

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

| Weed/Crop Code   | INJURY | INJURY  | AMBTR   | IPOHE   | IPOLA   | ABUTH   |
|------------------|--------|---------|---------|---------|---------|---------|
| Rating Data Type | VISUAL | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10   | 0-10    | 0-100   | 0-100   | 0-100   | 0-100   |
| Rating Date      | 6-7-93 | 6-10-93 | 6-10-93 | 6-10-93 | 6-10-93 | 6-10-93 |

|                   |        |        |         |         |         |        |
|-------------------|--------|--------|---------|---------|---------|--------|
| Block F           | 1.145  | 0.000  | 6.431   | 2.596   | 2.402   | 0.623  |
| Block Prob(F)     | 0.3389 | 1.0000 | 0.0008  | 0.0612  | 0.0770  | 0.6032 |
| Treatment F       | 3.116  | 0.000  | 151.125 | 120.019 | 140.065 | 63.894 |
| Treatment Prob(F) | 0.0005 | 1.0000 | 0.0001  | 0.0001  | 0.0001  | 0.0001 |

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

10-24-93 (PERMCONV.DAT)

## SUMMARY

## VPI &amp; SU

## PERMIT IN CONVENTIONAL CORN

Project Code:93-01-19-07

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

|                  |         |         |         |         |
|------------------|---------|---------|---------|---------|
| Seed/Crop Code   | INJURY  | AMBTR   | IPOHE   | ABUTH   |
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-100   | 0-100   | 0-100   |
| Rating Date      | 7-28-93 | 7-28-93 | 7-28-93 | 7-28-93 |

| Trt Treatment | Form Fm | Rate              | Grow | Appl |       |          |          |         |
|---------------|---------|-------------------|------|------|-------|----------|----------|---------|
| No Name       | Amt Ds  | Rate Unit         | Stg  | Code |       |          |          |         |
| 1 lasso mt    | 4.00 l  | 2.50 lb ai/A pre  |      |      | 0.0 a | 73.8 bc  | 86.3 b-f | 93.8 a  |
| 1 permit      | 75 d    | .016 lb ai/A post |      |      |       |          |          |         |
| 1 X-77        | l       | .250 % v/v post   |      |      |       |          |          |         |
| 2 lasso mt    | 4.00 l  | 2.50 lb ai/A pre  |      |      | 0.0 a | 90.0 abc | 81.3 ef  | 91.3 a  |
| 2 permit      | 75 d    | .032 lb ai/A post |      |      |       |          |          |         |
| 2 X-77        | l       | .250 % v/v post   |      |      |       |          |          |         |
| 3 lasso mt    | 4.00 l  | 2.50 lb ai/A pre  |      |      | 0.0 a | 99.0 a   | 98.8 a   | 92.5 a  |
| 3 banvel      | 4.00 l  | .50 lb ai/A post  |      |      |       |          |          |         |
| 4 lasso mt    | 4.00 l  | 2.50 lb ai/A pre  |      |      | 0.0 a | 86.3 abc | 96.3 ab  | 98.8 a  |
| 4 2,4-D ester | 4.00 l  | .50 lb ai/A post  |      |      |       |          |          |         |
| 5 lasso mt    | 4.00 l  | 2.50 lb ai/A pre  |      |      | 0.0 a | 99.3 a   | 100.0 a  | 100.0 a |
| 5 marksman    | 3.20 l  | 2.00 lb ai/A post |      |      |       |          |          |         |
| 6 lasso mt    | 4.00 l  | 2.50 lb ai/A pre  |      |      | 0.0 a | 98.8 a   | 100.0 a  | 96.3 a  |
| 6 atrazine    | 4.00 l  | 2.00 lb ai/A post |      |      |       |          |          |         |
| 6 COC         | l       | 1.00 % v/v post   |      |      |       |          |          |         |
| 7 lasso mt    | 4.00 l  | 2.50 lb ai/A pre  |      |      | 0.0 a | 95.0 a   | 96.3 ab  | 96.3 a  |
| 7 permit      | 75 d    | .032 lb ai/A post |      |      |       |          |          |         |
| 7 banvel      | 4.00 l  | .125 lb ai/A post |      |      |       |          |          |         |
| 7 X-77        | l       | .250 % v/v post   |      |      |       |          |          |         |
| 8 lasso mt    | 4.00 l  | 2.50 lb ai/A pre  |      |      | 0.0 a | 92.3 ab  | 91.3 a-f | 92.5 a  |
| 8 permit      | 75 d    | .016 lb ai/A post |      |      |       |          |          |         |
| 8 banvel      | 4.00 l  | .125 lb ai/A post |      |      |       |          |          |         |
| 8 X-77        | l       | .250 % v/v post   |      |      |       |          |          |         |
| 9 lasso mt    | 4.00 l  | 2.50 lb ai/A pre  |      |      | 0.0 a | 95.0 a   | 93.8 a-d | 92.5 a  |
| 9 permit      | 75 d    | .032 lb ai/A post |      |      |       |          |          |         |
| 9 2,4-D       | 4.00 l  | .125 lb ai/A post |      |      |       |          |          |         |
| 9 X-77        | l       | .250 % v/v post   |      |      |       |          |          |         |
| 10 lasso mt   | 4.00 l  | 2.50 lb ai/A pre  |      |      | 0.0 a | 92.5 ab  | 92.5 a-e | 91.3 a  |
| 10 permit     | 75 d    | .016 lb ai/A post |      |      |       |          |          |         |
| 10 2,4-D      | 4.00 l  | .125 lb ai/A post |      |      |       |          |          |         |
| 10 X-77       | l       | .250 % v/v post   |      |      |       |          |          |         |
| 11 lasso mt   | 4.0 l   | .250 lb ai/A pre  |      |      | 0.0 a | 90.8 ab  | 92.5 a-e | 90.0 a  |
| 11 permit     | 75 d    | .032 lb ai/A post |      |      |       |          |          |         |
| 11 atrazine   | 4.00 l  | 1.00 lb ai/A post |      |      |       |          |          |         |
| 11 COC        | l       | 1.00 % v/v post   |      |      |       |          |          |         |

10-24-93 (PERMCONV.DAT)

## SUMMARY

VPI & SU  
PERMIT IN CONVENTIONAL CORNProject Code:93-01-19-07  
Cooperator :E.S. HAGOODLocation :WHITETHORNE, VA.  
By:Dept. Plant Path., Phys.,

|                  |         |         |         |         |
|------------------|---------|---------|---------|---------|
| Weed/Crop Code   | INJURY  | AMBTR   | IPOHE   | ABUTH   |
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-100   | 0-100   | 0-100   |
| Rating Date      | 7-28-93 | 7-28-93 | 7-28-93 | 7-28-93 |

| Trt Treatment | Form Fm | Rate         | Grow | Appl |       |          |          |        |
|---------------|---------|--------------|------|------|-------|----------|----------|--------|
| No Name       | Amt Ds  | Rate Unit    | Stg  | Code |       |          |          |        |
| 12 lasso mt   | 4.00 l  | 2.50 lb ai/A | pre  |      | 0.0 a | 93.8 ab  | 98.8 a   | 92.5 a |
| 12 permit     | 75 d    | .016 lb ai/A | post |      |       |          |          |        |
| 12 atrazine   | 4.00 l  | 1.00 lb ai/A | post |      |       |          |          |        |
| 12 COC        | l       | 1.00 % v/v   | post |      |       |          |          |        |
| 13 lasso mt   | 4.00 l  | 2.50 lb ai/A | pre  |      | 0.0 a | 78.8 abc | 80.0 f   | 92.5 a |
| 13 permit     | 75 d    | .032 lb ai/A | post |      |       |          |          |        |
| 13 pinnacle   | 25 d    | .004 lb ai/A | post |      |       |          |          |        |
| 13 X-77       | l       | .125 % v/v   | post |      |       |          |          |        |
| 14 lasso mt   | 4.00 l  | 2.50 lb ai/A | pre  |      | 0.0 a | 78.8 abc | 82.5 def | 90.0 a |
| 14 permit     | 75 d    | .016 lb ai/A | post |      |       |          |          |        |
| 14 pinnacle   | 25 d    | .004 lb ai/A | post |      |       |          |          |        |
| 14 X-77       | l       | .125 % v/v   | post |      |       |          |          |        |
| 15 lasso mt   | 4.00 l  | 2.50 lb ai/A | pre  |      | 0.0 a | 20.0 d   | 83.8 c-f | 63.8 b |
| 15 accent     | 75 d    | .016 lb ai/A | post |      |       |          |          |        |
| 15 X-77       | l       | .250 % v/v   | post |      |       |          |          |        |
| 16 lasso mt   | 4.00 l  | 2.50 lb ai/A | pre  |      | 0.0 a | 83.8 abc | 93.8 a-d | 98.8 a |
| 16 permit     | 75 d    | .032 lb ai/A | post |      |       |          |          |        |
| 16 accent     | 75 d    | .016 lb ai/A | post |      |       |          |          |        |
| 16 X-77       | l       | .250 % v/v   | post |      |       |          |          |        |
| 17 lasso mt   | 4.00 l  | 2.50 lb ai/A | pre  |      | 0.0 a | 70.0 c   | 88.8 a-f | 92.5 a |
| 17 permit     | 75 d    | .016 lb ai/A | post |      |       |          |          |        |
| 17 accent     | 75 d    | .016 lb ai/A | post |      |       |          |          |        |
| 17 X-77       | l       | .250 % v/v   | post |      |       |          |          |        |
| 18 lasso mt   | 4.00 l  | 2.50 lb ai/A | pre  |      | 0.0 a | 91.3 ab  | 91.3 a-f | 92.5 a |
| 18 permit     | 75 d    | .016 lb ai/A | post |      |       |          |          |        |
| 18 banvel     | 4.00 l  | .125 lb ai/A | post |      |       |          |          |        |
| 18 accent     | 75 d    | .016 lb ai/A | post |      |       |          |          |        |
| 18 X-77       | l       | .250 % v/v   | post |      |       |          |          |        |
| 19 lasso mt   | 4.00 l  | 2.50 lb ai/A | pre  |      | 0.0 a | 86.3 abc | 95.0 abc | 91.3 a |
| 19 permit     | 75 d    | .016 lb ai/A | post |      |       |          |          |        |
| 19 2,4-D      | 4.00 l  | .125 lb ai/A | post |      |       |          |          |        |
| 19 accent     | 75 d    | .016 lb ai/A | post |      |       |          |          |        |
| 19 X-77       | l       | .250 % v/v   | post |      |       |          |          |        |
| 20 control    |         |              |      |      | 0.0 a | 0.0 e    | 0.0 g    | 0.0 c  |

LSD (.05) =  
Standard Dev.=  
CV =

|   |         |         |         |
|---|---------|---------|---------|
| 0 | 17.5    | 10.2    | 14.0    |
| 0 | 12.3698 | 7.19253 | 9.91217 |
| 0 | 15.32   | 8.26    | 11.34   |

10-24-93 (PERMCONV.DAT)

SUMMARY

VPI & SU

PERMIT IN CONVENTIONAL CORN

Project Code:93-01-19-07

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

Weed/Crop Code

INJURY

AMBTR

IPOHE

ABUTH

Rating Data Type

VISUAL

VISUAL

VISUAL

VISUAL

Rating Unit

0-10

0-100

0-100

0-100

Rating Date

7-28-93

7-28-93

7-28-93

7-28-93

Block F

0.000

3.107

0.975

2.862

Block Prob(F)

1.0000

0.0334

0.4112

0.0447

Treatment F

0.000

17.327

35.495

19.395

Treatment Prob(F)

1.0000

0.0001

0.0001

0.0001

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

- End of Report -

10-24-93 (BATTCONV.DD)

SITE DESC.

VPI &amp; SU

CONVENTIONAL CORN WITH BATTLION

Project Code:93-01-19-06

Location :WHITETHORNE, VA.

Cooperator :E.S. Hagood

By:Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-11-93

Variety PIONEER 3154

Row Width 30"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance SPRING PLOWED, DISKED AND ROTO-TILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand \_\_\_\_\_ % Silt \_\_\_\_\_

% Clay \_\_\_\_\_

Soil Series ROSS

% OM 2.5

pH 6.3

CEC \_\_\_\_\_

## Application Information

A

B

C

D

E

F

Date Treated

5-11-93

Time Treated

10 AM

Cloud Cover

10%

Air Temperature

78 F

Relative Humidity

80%

Wind Speed/Direction

0-3 SW

Soil Temperature

58 F

Soil/Leaf Surface Moisture

DRY

Soil Subsurface Moisture

MOIST

Soil Tilth

FAIR

Crop Stage

PRE

Pest Name, Stage &amp; Density

## Application Equipment

Sprayer  
TypeSpeed  
MPHNozzle  
TypeNozzle  
SizeNozzle  
HeightNozzle  
SpacingBoom  
Width

GPA

Carrier

PSI

|    |               |     |          |      |     |     |     |      |       |    |
|----|---------------|-----|----------|------|-----|-----|-----|------|-------|----|
| 1. | CO/2 BACKPACK | 3.1 | FLAT FAN | 8003 | 20" | 18" | 72" | 22.5 | WATER | 32 |
| 2. |               |     |          |      |     |     |     |      |       |    |
| 3. |               |     |          |      |     |     |     |      |       |    |
| 4. |               |     |          |      |     |     |     |      |       |    |
| 5. |               |     |          |      |     |     |     |      |       |    |
| 6. |               |     |          |      |     |     |     |      |       |    |

## Comments

10-17-93 (BATTCONV.DAT)

## SUMMARY

VPI & SU  
CONVENTIONAL CORN WITH BATTLION

Project Code:93-01-19-06

Location :WHITETHORNE, VA.

Cooperator :E.S. Hagood

By:Dept. Plant Path., Phys.,

All rates are specified as lb ai/A

| Weed/Crop Code   | INJURY | INJURY | OVERALL | AMBTR  | DATST  | SIDSP  | IPOHE  |
|------------------|--------|--------|---------|--------|--------|--------|--------|
| Rating Data Type | VISUAL | VISUAL | VISUAL  | VISUAL | VISUAL | VISUAL | VISUAL |
| Rating Unit      | 0-10   | 0-10   | 0-100   | 0-100  | 0-100  | 0-100  | 0-100  |
| Rating Date      | 6-1-93 | 6-7-93 | 6-7-93  | 6-7-93 | 6-7-93 | 6-7-93 | 6-7-93 |

| Trt Treatment  | Form Fm     | Grow | Appl |       |       |         |          |         |         |          |
|----------------|-------------|------|------|-------|-------|---------|----------|---------|---------|----------|
| No Name        | Amt Ds Rate | Stg  | Code |       |       |         |          |         |         |          |
| 1 lasso mt     | 4.00 l 2.50 | pre  |      | 0.0 a | 0.0 b | 8.0 c   | 81.3 bcd | 100.0 a | 100.0 a | 68.8 fg  |
| 1 battalion    | 15 d .056   | pre  |      |       |       |         |          |         |         |          |
| 2 lasso mt     | 4.00 l 2.50 | pre  |      | 0.0 a | 0.0 b | 8.5 bc  | 83.8 a-d | 100.0 a | 100.0 a | 86.3 a-e |
| 2 battalion    | 15 d .065   | pre  |      |       |       |         |          |         |         |          |
| 3 lasso mt     | 4.00 l 2.50 | pre  |      | 0.8 a | 0.0 b | 9.5 ab  | 95.0 a   | 100.0 a | 100.0 a | 86.3 a-e |
| 3 battalion    | 15 d .075   | pre  |      |       |       |         |          |         |         |          |
| 4 harness plus | 7.00 l 2.00 | pre  |      | 0.3 a | 0.0 b | 9.0 abc | 90.0 abc | 100.0 a | 100.0 a | 78.8 c-f |
| 4 battalion    | 15 d .056   | pre  |      |       |       |         |          |         |         |          |
| 5 harness plus | 7.00 l 2.00 | pre  |      | 0.8 a | 0.0 b | 8.0 c   | 80.0 bcd | 100.0 a | 100.0 a | 71.3 ef  |
| 5 battalion    | 15 d .065   | pre  |      |       |       |         |          |         |         |          |
| 6 harness plus | 7.00 l 2.00 | pre  |      | 0.3 a | 0.0 b | 8.8 abc | 86.3 a-d | 100.0 a | 100.0 a | 77.5 c-f |
| 6 battalion    | 15 d .075   | pre  |      |       |       |         |          |         |         |          |
| 7 lasso mt     | 4.00 l 2.50 | pre  |      | 0.8 a | 0.0 b | 8.0 c   | 75.0 d   | 100.0 a | 100.0 a | 81.3 b-f |
| 7 battalion    | 15 d .046   | pre  |      |       |       |         |          |         |         |          |
| 7 bladex       | 4.00 l 1.00 | pre  |      |       |       |         |          |         |         |          |
| 8 lasso mt     | 4.00 l 2.50 | pre  |      | 0.5 a | 0.0 b | 8.3 c   | 81.3 bcd | 100.0 a | 100.0 a | 82.5 a-f |
| 8 battalion    | 15 d .056   | pre  |      |       |       |         |          |         |         |          |
| 8 bladex       | 4.00 l 1.00 | pre  |      |       |       |         |          |         |         |          |
| 9 lasso mt     | 4.00 l 2.50 | pre  |      | 0.5 a | 0.0 b | 9.0 abc | 90.0 abc | 100.0 a | 100.0 a | 88.8 a-d |
| 9 battalion    | 15 d .046   | pre  |      |       |       |         |          |         |         |          |
| 9 atrazine     | 4.00 l 2.00 | pre  |      |       |       |         |          |         |         |          |
| 10 lasso mt    | 4.00 l 2.50 | pre  |      | 0.0 a | 0.0 b | 9.5 ab  | 92.5 ab  | 100.0 a | 100.0 a | 93.8 abc |
| 10 battalion   | 15 d .056   | pre  |      |       |       |         |          |         |         |          |
| 10 atrazine    | 4.00 l 2.00 | pre  |      |       |       |         |          |         |         |          |
| 11 lasso mt    | 4.00 l 2.50 | pre  |      | 0.3 a | 0.0 b | 8.0 c   | 77.5 cd  | 100.0 a | 100.0 a | 77.5 c-f |
| 11 battalion   | 15 d .046   | pre  |      |       |       |         |          |         |         |          |
| 11 lorox       | 50 d .250   | pre  |      |       |       |         |          |         |         |          |
| 12 lasso mt    | 4.00 l 2.50 | pre  |      | 0.5 a | 0.0 b | 8.3 c   | 77.5 cd  | 100.0 a | 95.0 a  | 73.8 def |
| 12 battalion   | 15 d .056   | pre  |      |       |       |         |          |         |         |          |
| 12 lorox       | 50 d .250   | pre  |      |       |       |         |          |         |         |          |

10-17-93 (BATTCONV.DAT)

SUMMARY

VPI &amp; SU

CONVENTIONAL CORN WITH BATTLION

Project Code:93-01-19-06

Location :WHITETHORNE, VA.

Cooperator :E.S. Hagood

By:Dept. Plant Path., Phys.,

All rates are specified as lb ai/A

| Weed/Crop Code   | INJURY | INJURY | OVERALL | AMBTR  | DATST  | SIDSP  | IPOHE  |
|------------------|--------|--------|---------|--------|--------|--------|--------|
| Rating Data Type | VISUAL | VISUAL | VISUAL  | VISUAL | VISUAL | VISUAL | VISUAL |
| Rating Unit      | 0-10   | 0-10   | 0-100   | 0-100  | 0-100  | 0-100  | 0-100  |
| Rating Date      | 6-1-93 | 6-7-93 | 6-7-93  | 6-7-93 | 6-7-93 | 6-7-93 | 6-7-93 |

| Trt Treatment     | Form Fm     | Grow | Appl |         |         |         |         |         |         |          |
|-------------------|-------------|------|------|---------|---------|---------|---------|---------|---------|----------|
| No Name           | Amt Ds Rate | Stg  | Code |         |         |         |         |         |         |          |
| 13 lasso mt       | 4.00 l 2.50 | pre  |      | 0.0 a   | 0.0 b   | 9.8 a   | 94.5 a  | 100.0 a | 100.0 a | 98.8 a   |
| 13 battalion      | 15 d .046   | pre  |      |         |         |         |         |         |         |          |
| 13 banvel         | 4.00 l .375 | pre  |      |         |         |         |         |         |         |          |
| 14 lasso          | 4.00 l 2.50 | pre  |      | 0.8 a   | 0.0 b   | 9.8 a   | 95.0 a  | 100.0 a | 100.0 a | 97.5 ab  |
| 14 battalion      | 15 d .056   | pre  |      |         |         |         |         |         |         |          |
| 14 banvel         | 4.00 l .375 | pre  |      |         |         |         |         |         |         |          |
| 15 bullet         | 4.00 l 4.00 | pre  |      | 0.0 a   | 1.5 a   | 6.5 d   | 63.8 e  | 100.0 a | 97.5 a  | 55.0 g   |
| 16 bicep          | 4.00 l 3.50 | pre  |      | 1.0 a   | 0.0 b   | 6.5 d   | 58.8 ef | 97.5 a  | 97.5 a  | 73.8 def |
| 17 extrazine      | 90 d 2.00   | pre  |      | 0.3 a   | 0.0 b   | 5.8 d   | 48.8 f  | 92.5 b  | 88.8 b  | 66.3 fg  |
| 18 control        |             |      |      | 0.0 a   | 0.0 b   | 0.0 e   | 0.0 g   | 0.0 c   | 0.0 c   | 0.0 h    |
| LSD (.05) =       |             |      |      | 0.9     | 1.0     | 1.0     | 11.0    | 2.4     | 5.3     | 14.7     |
| Standard Dev.=    |             |      |      | .600472 | .707107 | .675594 | 7.68524 | 1.65025 | 3.70755 | 10.2912  |
| CV =              |             |      |      | 166.28  | 848.53  | 8.62    | 10.09   | 1.76    | 3.98    | 13.65    |
| Block F           |             |      |      | 0.565   | 1.000   | 1.623   | 2.128   | 1.360   | 1.642   | 5.582    |
| Block Prob(F)     |             |      |      | 0.6406  | 0.4005  | 0.1955  | 0.1081  | 0.2655  | 0.1912  | 0.0022   |
| Treatment F       |             |      |      | 1.242   | 1.000   | 44.656  | 35.599  | 811.320 | 160.001 | 18.086   |
| Treatment Prob(F) |             |      |      | 0.2683  | 0.4736  | 0.0001  | 0.0001  | 0.0001  | 0.0001  | 0.0001   |

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

10-17-93 (BATTCNV.DAT)

SUMMARY

VPI &amp; SU

CONVENTIONAL CORN WITH BATTALION

Project Code:93-01-19-06

Location :WHITETHORNE, VA.

Cooperator :E.S. Hagood

By:Dept. Plant Path., Phys.,

All rates are specified as lb ai/A

|                  |        |        |        |         |         |         |         |
|------------------|--------|--------|--------|---------|---------|---------|---------|
| Weed/Crop Code   | CHEAL  | PANDI  | ABUTH  | INJURY  | AMBTR   | IPOHE   | SIDSP   |
| Rating Data Type | VISUAL | VISUAL | VISUAL | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-100  | 0-100  | 0-100  | 0-10    | 0-100   | 0-100   | 0-100   |
| Rating Date      | 6-7-93 | 6-7-93 | 6-7-93 | 7-28-93 | 7-28-93 | 7-28-93 | 7-28-93 |

| Trt | Treatment    | Form | Fm | Grow | Appl |      |       |     |       |     |       |     |
|-----|--------------|------|----|------|------|------|-------|-----|-------|-----|-------|-----|
| No  | Name         | Amt  | Ds | Rate | Stg  | Code |       |     |       |     |       |     |
| 1   | lasso mt     | 4.00 | l  | 2.50 | pre  |      | 100.0 | a   | 100.0 | a   | 93.8  | ab  |
| 1   | battalion    | 15   | d  | .056 | pre  |      |       |     |       |     | 0.0   | a   |
|     |              |      |    |      |      |      | 50.0  | d-g | 91.3  | ab  | 97.5  | a   |
| 2   | lasso mt     | 4.00 | l  | 2.50 | pre  |      | 100.0 | a   | 100.0 | a   | 100.0 | a   |
| 2   | battalion    | 15   | d  | .065 | pre  |      |       |     |       |     | 0.0   | a   |
|     |              |      |    |      |      |      | 50.0  | d-g | 68.8  | bc  | 80.0  | b   |
| 3   | lasso mt     | 4.00 | l  | 2.50 | pre  |      | 100.0 | a   | 100.0 | a   | 100.0 | a   |
| 3   | battalion    | 15   | d  | .075 | pre  |      |       |     |       |     | 0.0   | a   |
|     |              |      |    |      |      |      | 76.3  | ab  | 77.5  | abc | 83.8  | ab  |
| 4   | harness plus | 7.00 | l  | 2.00 | pre  |      | 100.0 | a   | 100.0 | a   | 100.0 | a   |
| 4   | battalion    | 15   | d  | .056 | pre  |      |       |     |       |     | 0.0   | a   |
|     |              |      |    |      |      |      | 65.0  | a-f | 78.8  | abc | 87.5  | ab  |
| 5   | harness plus | 7.00 | l  | 2.00 | pre  |      | 100.0 | a   | 100.0 | a   | 100.0 | a   |
| 5   | battalion    | 15   | d  | .065 | pre  |      |       |     |       |     | 0.0   | a   |
|     |              |      |    |      |      |      | 68.8  | a-d | 83.8  | abc | 85.0  | ab  |
| 6   | harness plus | 7.00 | l  | 2.00 | pre  |      | 100.0 | a   | 100.0 | a   | 100.0 | a   |
| 6   | battalion    | 15   | d  | .075 | pre  |      |       |     |       |     | 0.0   | a   |
|     |              |      |    |      |      |      | 67.5  | a-e | 73.8  | abc | 87.5  | ab  |
| 7   | lasso mt     | 4.00 | l  | 2.50 | pre  |      | 100.0 | a   | 100.0 | a   | 96.3  | a   |
| 7   | battalion    | 15   | d  | .046 | pre  |      |       |     |       |     | 0.0   | a   |
| 7   | bladex       | 4.00 | l  | 1.00 | pre  |      |       |     |       |     | 65.0  | a-f |
|     |              |      |    |      |      |      | 78.8  | abc | 96.3  | ab  |       |     |
| 8   | lasso mt     | 4.00 | l  | 2.50 | pre  |      | 100.0 | a   | 100.0 | a   | 100.0 | a   |
| 8   | battalion    | 15   | d  | .056 | pre  |      |       |     |       |     | 0.0   | a   |
| 8   | bladex       | 4.00 | l  | 1.00 | pre  |      |       |     |       |     | 61.3  | b-f |
|     |              |      |    |      |      |      | 87.5  | ab  | 97.5  | a   |       |     |
| 9   | lasso mt     | 4.00 | l  | 2.50 | pre  |      | 100.0 | a   | 100.0 | a   | 100.0 | a   |
| 9   | battalion    | 15   | d  | .046 | pre  |      |       |     |       |     | 0.0   | a   |
| 9   | atrazine     | 4.00 | l  | 2.00 | pre  |      |       |     |       |     | 75.0  | abc |
|     |              |      |    |      |      |      | 90.0  | ab  | 96.3  | ab  |       |     |
| 10  | lasso mt     | 4.00 | l  | 2.50 | pre  |      | 100.0 | a   | 100.0 | a   | 100.0 | a   |
| 10  | battalion    | 15   | d  | .056 | pre  |      |       |     |       |     | 0.0   | a   |
| 10  | atrazine     | 4.00 | l  | 2.00 | pre  |      |       |     |       |     | 75.0  | abc |
|     |              |      |    |      |      |      | 93.8  | a   | 95.0  | ab  |       |     |
| 11  | lasso mt     | 4.00 | l  | 2.50 | pre  |      | 100.0 | a   | 97.5  | a   | 95.0  | ab  |
| 11  | battalion    | 15   | d  | .046 | pre  |      |       |     |       |     | 0.0   | a   |
| 11  | lorox        | 50   | d  | .250 | pre  |      |       |     |       |     | 52.5  | c-g |
|     |              |      |    |      |      |      | 65.0  | c   | 80.0  | b   |       |     |
| 12  | lasso mt     | 4.00 | l  | 2.50 | pre  |      | 100.0 | a   | 97.5  | a   | 95.0  | ab  |
| 12  | battalion    | 15   | d  | .056 | pre  |      |       |     |       |     | 0.0   | a   |
| 12  | lorox        | 50   | d  | .250 | pre  |      |       |     |       |     | 57.5  | b-g |
|     |              |      |    |      |      |      | 80.0  | abc | 90.0  | ab  |       |     |

10-17-93 (BATTCONV.DAT)

SUMMARY

VPI &amp; SU

CONVENTIONAL CORN WITH BATTLION

Project Code:93-01-19-06

Location :WHITETHORNE, VA.

Cooperator :E.S. Hagood

By:Dept. Plant Path., Phys.,

All rates are specified as lb ai/A

|                  |        |        |        |         |         |         |         |
|------------------|--------|--------|--------|---------|---------|---------|---------|
| Weed/Crop Code   | CHEAL  | PANDI  | ABUTH  | INJURY  | AMBTR   | IPOHE   | SIDSP   |
| Rating Data Type | VISUAL | VISUAL | VISUAL | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-100  | 0-100  | 0-100  | 0-10    | 0-100   | 0-100   | 0-100   |
| Rating Date      | 6-7-93 | 6-7-93 | 6-7-93 | 7-28-93 | 7-28-93 | 7-28-93 | 7-28-93 |

| Trt Treatment     | Form   | Fm   | Grow | Appl |      |          |         |         |        |          |
|-------------------|--------|------|------|------|------|----------|---------|---------|--------|----------|
| No Name           | Amt    | Ds   | Rate | Stg  | Code |          |         |         |        |          |
| 13 lasso mt       | 4.00 l | 2.50 | pre  |      |      | 100.0 a  | 100.0 a | 100.0 a | 0.0 a  | 78.8 ab  |
| 13 battalion      | 15 d   | .046 | pre  |      |      |          |         |         |        | 95.0 a   |
| 13 banvel         | 4.00 l | .375 | pre  |      |      |          |         |         |        | 95.0 ab  |
| 14 lasso          | 4.00 l | 2.50 | pre  |      |      | 100.0 a  | 100.0 a | 100.0 a | 0.0 a  | 86.3 a   |
| 14 battalion      | 15 d   | .056 | pre  |      |      |          |         |         |        | 90.0 ab  |
| 14 banvel         | 4.00 l | .375 | pre  |      |      |          |         |         |        | 96.3 ab  |
| 15 bullet         | 4.00 l | 4.00 | pre  |      |      | 100.0 a  | 100.0 a | 78.8 b  | 0.0 a  | 37.5 g   |
| 16 bicep          | 4.00 l | 3.50 | pre  |      |      | 100.0 a  | 100.0 a | 78.8 b  | 0.0 a  | 42.5 fg  |
| 17 extrazine      | 90 d   | 2.00 | pre  |      |      | 96.3 b   | 66.3 b  | 61.3 c  | 0.0 a  | 45.0 efg |
| 18 control        |        |      |      |      |      | 0.0 c    | 0.0 c   | 0.0 d   | 0.0 a  | 0.0 h    |
| LSD (.05) =       |        |      |      |      |      | 1.6      | 9.0     | 14.9    | 0      | 20.2     |
| Standard Dev.=    |        |      |      |      |      | 1.12834  | 6.27256 | 10.4250 | 0      | 14.1409  |
| CV =              |        |      |      |      |      | 1.20     | 6.80    | 11.74   | 0      | 24.16    |
| Block F           |        |      |      |      |      | 1.000    | 0.950   | 0.463   | 0.000  | 1.118    |
| Block Prob(F)     |        |      |      |      |      | 0.4005   | 0.4234  | 0.7092  | 1.0000 | 0.3506   |
| Treatment F       |        |      |      |      |      | 1740.208 | 60.293  | 22.208  | 0.000  | 8.002    |
| Treatment Prob(F) |        |      |      |      |      | 0.0001   | 0.0001  | 0.0001  | 1.0000 | 0.0001   |

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

10-17-93 (BATTCONV.DAT)

## SUMMARY

VPI &amp; SU

## CONVENTIONAL CORN WITH BATTLION

Project Code:93-01-19-06

Location :WHITETHORNE, VA.

Cooperator :E.S. Hagood

By:Dept. Plant Path., Phys.,

All rates are specified as lb ai/A

|                  |         |         |
|------------------|---------|---------|
| Weed/Crop Code   | PANDI   | CHEAL   |
| Rating Data Type | VISUAL  | VISUAL  |
| Rating Unit      | 0-100   | 0-100   |
| Rating Date      | 7-28-93 | 7-28-93 |

| Trt Treatment  | Form | Fm | Grow | Appl |         |         |
|----------------|------|----|------|------|---------|---------|
| No Name        | Amt  | Ds | Rate | Stg  | Code    |         |
| 1 lasso mt     | 4.00 | l  | 2.50 | pre  | 95.0 a  | 97.5 ab |
| 1 battalion    | 15 d |    | .056 | pre  |         |         |
| 2 lasso mt     | 4.00 | l  | 2.50 | pre  | 95.0 a  | 97.5 ab |
| 2 battalion    | 15 d |    | .065 | pre  |         |         |
| 3 lasso mt     | 4.00 | l  | 2.50 | pre  | 95.0 a  | 97.5 ab |
| 3 battalion    | 15 d |    | .075 | pre  |         |         |
| 4 harness plus | 7.00 | l  | 2.00 | pre  | 90.0 a  | 97.5 ab |
| 4 battalion    | 15 d |    | .056 | pre  |         |         |
| 5 harness plus | 7.00 | l  | 2.00 | pre  | 87.5 a  | 97.5 ab |
| 5 battalion    | 15 d |    | .065 | pre  |         |         |
| 6 harness plus | 7.00 | l  | 2.00 | pre  | 92.5 a  | 97.5 ab |
| 6 battalion    | 15 d |    | .075 | pre  |         |         |
| 7 lasso mt     | 4.00 | l  | 2.50 | pre  | 93.8 a  | 100.0 a |
| 7 battalion    | 15 d |    | .046 | pre  |         |         |
| 7 bladex       | 4.00 | l  | 1.00 | pre  |         |         |
| 8 lasso mt     | 4.00 | l  | 2.50 | pre  | 100.0 a | 100.0 a |
| 8 battalion    | 15 d |    | .056 | pre  |         |         |
| 8 bladex       | 4.00 | l  | 1.00 | pre  |         |         |
| 9 lasso mt     | 4.00 | l  | 2.50 | pre  | 100.0 a | 100.0 a |
| 9 battalion    | 15 d |    | .046 | pre  |         |         |
| 9 atrazine     | 4.00 | l  | 2.00 | pre  |         |         |
| 10 lasso mt    | 4.00 | l  | 2.50 | pre  | 93.8 a  | 100.0 a |
| 10 battalion   | 15 d |    | .056 | pre  |         |         |
| 10 atrazine    | 4.00 | l  | 2.00 | pre  |         |         |
| 11 lasso mt    | 4.00 | l  | 2.50 | pre  | 92.5 a  | 97.5 ab |
| 11 battalion   | 15 d |    | .046 | pre  |         |         |
| 11 lorox       | 50 d |    | .250 | pre  |         |         |
| 12 lasso mt    | 4.00 | l  | 2.50 | pre  | 92.5 a  | 97.5 ab |
| 12 battalion   | 15 d |    | .056 | pre  |         |         |
| 12 lorox       | 50 d |    | .250 | pre  |         |         |

10-17-93 (BATTCONV.DAT)

SUMMARY

VPI &amp; SU

CONVENTIONAL CORN WITH BATTLION

Project Code:93-01-19-06

Location :WHITETHORNE, VA.

Cooperator :E.S. Hagood

By:Dept. Plant Path., Phys.,

All rates are specified as lb ai/A

|                  |         |         |
|------------------|---------|---------|
| Weed/Crop Code   | PANDI   | CHEAL   |
| Rating Data Type | VISUAL  | VISUAL  |
| Rating Unit      | 0-100   | 0-100   |
| Rating Date      | 7-28-93 | 7-28-93 |

| Trt Treatment<br>No Name | Form Fm<br>Amt Ds Rate | Grow<br>Stg | Appl<br>Code |         |         |
|--------------------------|------------------------|-------------|--------------|---------|---------|
| 13 lasso mt              | 4.00 l 2.50            | pre         |              | 97.5 a  | 100.0 a |
| 13 battalion             | 15 d .046              | pre         |              |         |         |
| 13 banvel                | 4.00 l .375            | pre         |              |         |         |
| 14 lasso                 | 4.00 l 2.50            | pre         |              | 100.0 a | 100.0 a |
| 14 battalion             | 15 d .056              | pre         |              |         |         |
| 14 banvel                | 4.00 l .375            | pre         |              |         |         |
| 15 bullet                | 4.00 l 4.00            | pre         |              | 92.5 a  | 100.0 a |
| 16 bicep                 | 4.00 l 3.50            | pre         |              | 97.5 a  | 100.0 a |
| 17 extrazine             | 90 d 2.00              | pre         |              | 62.5 b  | 92.5 b  |
| 18 control               |                        |             |              | 0.0 c   | 0.0 c   |
| LSD (.05) =              |                        |             |              | 13.0    | 5.6     |
| Standard Dev.=           |                        |             |              | 9.06585 | 3.88772 |
| CV =                     |                        |             |              | 10.34   | 4.18    |
| Block F                  |                        |             |              | 0.389   | 2.297   |
| Block Prob(F)            |                        |             |              | 0.7616  | 0.0886  |
| Treatment F              |                        |             |              | 26.632  | 143.270 |
| Treatment Prob(F)        |                        |             |              | 0.0001  | 0.0001  |

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

- End of Report -

10-24-93 (PREPOCOR.DD)

SITE DESC.

VPI &amp; SU

PRE VS POST CORN WEED CONTROL

Project Code:PREPOCOR

Location :NEW KENT, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 4-27-93

Variety LINKS 2810

Row Width 30"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance NO-TILL INTO SOYBEAN STUBBLE

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SANDY CLAY LOAM

% Sand \_\_\_\_\_ % Silt \_\_\_\_\_

% Clay \_\_\_\_\_

Soil Series PAMUNKY

% OM 1.0

pH 6.3

CEC \_\_\_\_\_

## Application Information

A

B

C

D

E

F

Date Treated

5-4-93

5-10-93

5-17-93

Time Treated

10-11 AM

4 PM

4-5 PM

Cloud Cover

50%

20%

10%

Air Temperature

78 F

81 F

83 F

Relative Humidity

65%

70%

70%

Wind Speed/Direction

3-5 SW

0-3 SW

0-3 SW

Soil Temperature

57F

Soil/Leaf Surface Moisture

MOIST

MOIST

MOIST

Soil Subsurface Moisture

GOOD

MOIST

MOIST

Soil Tilth

PRE

3LF-SPIK

5LF POST

Crop Stage

Pest Name, Stage &amp; Density

DIGSA

2-3"

PANDI

1-1.5"

## Application Equipment

Sprayer  
TypeSpeed  
MPHNozzle  
TypeNozzle  
SizeNozzle  
HeightNozzle  
SpacingBoom  
Width

GPA

Carrier

PSI

1. CO/2 BACKPACK

3.1

FLAT FAN

8003"

20"

18"

72"

22.5

WATER

32

2. CO/2 BACKPACK

3.1

FLAT FAN

8003

20"

18"

72"

22.5

WATER

32

3. CO/2 BACKPACK

3.1

FLAT FAN

8003

20"

18"

72"

22.5

WATER

32

4. \_\_\_\_\_

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5. \_\_\_\_\_

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## Comments

80 lbs. of Nitrogen and 16 lbs. of Sulfur were applied on 6-14-93. No significant annual broadleaf pressure.

10-24-93 (PREPOCOR.DAT)

SUMMARY

VPI &amp; SU

PRE VS POST CORN WEED CONTROL

Project Code:PREPOCOR

Location :NEW KENT, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

|                  |         |         |         |
|------------------|---------|---------|---------|
| Weed/Crop Code   | DIGSA   | PANDI   | DIGSA   |
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-100   | 0-100   | 0-100   |
| Rating Date      | 5-17-93 | 7-13-93 | 7-13-93 |

| Trt Treatment | Form Fm | Rate         | Grow   | Appl |         |          |          |
|---------------|---------|--------------|--------|------|---------|----------|----------|
| No Name       | Amt Ds  | Rate Unit    | Stg    | Code |         |          |          |
| 1 atrazine    | 4.00 l  | 1.50 lb ai/A | pre    |      | 97.5 a  | 95.0 abc | 98.8 a   |
| 1 frontier    | 7.50 l  | 1.00 lb ai/A | pre    |      |         |          |          |
| 2 atrazine    | 4.00 l  | 1.50 lb ai/A | pre    |      | 100.0 a | 98.8 a   | 97.5 a   |
| 2 lasso mt    | 4.00 l  | 2.00 lb ai/A | pre    |      |         |          |          |
| 3 atrazine    | 4.00 l  | 1.50 lb ai/A | pre    |      | 95.0 a  | 95.0 abc | 100.0 a  |
| 3 dual        | 8.00 l  | 1.50 lb ai/A | pre    |      |         |          |          |
| 4 atrazine    | 4.00 l  | 1.50 lb ai/A | pre    |      | 50.0 c  | 98.8 a   | 100.0 a  |
| 4 accent      | 75 d    | .031 lb ai/A | 5lfpst |      |         |          |          |
| 4 X-77        | l       | .250 % v/v   | 5lfpst |      |         |          |          |
| 5 atrazine    | 4.00 l  | 1.50 lb ai/A | pre    |      | 40.0 c  | 96.3 abc | 100.0 a  |
| 5 accent      | 75 d    | .031 lb ai/A | 5lfpst |      |         |          |          |
| 5 banvel      | 4.00 l  | .250 lb ai/A | 5lfpst |      |         |          |          |
| 6 accent      | 75 d    | .031 lb ai/A | 5lfpst |      | 0.0 d   | 95.0 abc | 91.3 a   |
| 6 X-77        | l       | .250 % v/v   | 5lfpst |      |         |          |          |
| 7 accent      | 75 d    | .031 lb ai/A | 5lfpst |      | 0.0 d   | 85.0 cd  | 86.3 abc |
| 7 banvel      | 4.00 l  | .250 lb ai/A | 5lfpst |      |         |          |          |
| 7 X-77        | l       | .250 % v/v   | 5lfpst |      |         |          |          |
| 8 accent      | 75 d    | .031 lb ai/A | 5lfpst |      | 0.0 d   | 92.5 abc | 85.0 abc |
| 8 marksman    | 3.20 l  | 1.40 lb ai/A | 5lfpst |      |         |          |          |
| 8 X-77        | l       | .250 % v/v   | 5lfpst |      |         |          |          |
| 9 frontier    | 7.50 l  | .80 lb ai/A  | spike  |      | 67.5 b  | 92.5 abc | 97.5 a   |
| 9 accent      | 75 d    | .016 lb ai/A | spike  |      |         |          |          |
| 9 clarity     | 4.00 l  | .50 lb ai/A  | spike  |      |         |          |          |
| 9 X-77        | l       | .250 % v/v   | spike  |      |         |          |          |
| 10 frontier   | 7.50 l  | .80 lb ai/A  | 3lfpst |      | 62.5 b  | 92.5 abc | 87.5 ab  |
| 10 accent     | 75 d    | .016 lb ai/A | 3lfpst |      |         |          |          |
| 10 clarity    | 4.00 l  | .50 lb ai/A  | 3lfpst |      |         |          |          |
| 10 X-77       | l       | .250 % v/v   | 3lfpst |      |         |          |          |
| 11 frontier   | 7.50 l  | .80 lb ai/A  | 5lfpst |      | 0.0 d   | 96.3 abc | 96.3 a   |
| 11 accent     | 75 d    | .016 lb ai/A | 5lfpst |      |         |          |          |
| 11 clarity    | 4.00 l  | .50 lb ai/A  | 5lfpst |      |         |          |          |
| 11 X-77       | l       | .250 % v/v   | 5lfpst |      |         |          |          |
| 12 beacon     | 75 d    | .019 lb ai/A | 5lfpst |      | 0.0 d   | 76.3 d   | 65.0 de  |
| 12 X-77       | l       | .250 % v/v   | 5lfpst |      |         |          |          |

10-24-93 (PREPOCOR.DAT)

## SUMMARY

VPI &amp; SU

PRE VS POST CORN WEED CONTROL

Project Code:PREPOCOR

Location :NEW KENT, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

|                  |         |         |         |
|------------------|---------|---------|---------|
| Seed/Crop Code   | DIGSA   | PANDI   | DIGSA   |
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-100   | 0-100   | 0-100   |
| Rating Date      | 5-17-93 | 7-13-93 | 7-13-93 |

| Trt Treatment | Form Fm | Rate         | Grow   | Appl |        |          |          |
|---------------|---------|--------------|--------|------|--------|----------|----------|
| No Name       | Amt Ds  | Rate Unit    | Stg    | Code |        |          |          |
| 13 beacon     | 75 d    | .019 lb ai/A | 5lfpst |      | 0.0 d  | 85.0 cd  | 58.8 e   |
| 13 coc        | l       | .500 % v/v   | 5lfpst |      |        |          |          |
| 14 beacon     | 75 d    | .019 lb ai/A | 5lfpst |      | 0.0 d  | 90.0 abc | 52.5 e   |
| 14 2,4-D      | 4.00 l  | .125 lb ai/A | 5lfpst |      |        |          |          |
| 14 X-77       | l       | .250 % v/v   | 5lfpst |      |        |          |          |
| 15 beacon     | 75 d    | .019 lb ai/A | 5lfpst |      | 0.0 d  | 86.3 bcd | 65.0 de  |
| 15 2,4-D      | 4.00 l  | .250 lb ai/A | 5lfpst |      |        |          |          |
| 15 X-77       | l       | .250 % v/v   | 5lfpst |      |        |          |          |
| 16 beacon     | 75 d    | .019 lb ai/A | 5lfpst |      | 0.0 d  | 90.0 abc | 35.0 f   |
| 16 2,4-D      | 4.00 l  | .125 lb ai/A | 5lfpst |      |        |          |          |
| 16 coc        | l       | .250 % v/v   | 5lfpst |      |        |          |          |
| 17 beacon     | 75 d    | .019 lb ai/A | 5lfpst |      | 0.0 d  | 87.5 abc | 65.0 de  |
| 17 banvel     | 4.00 l  | .067 lb ai/A | 5lfpst |      |        |          |          |
| 17 X-77       | l       | .250 % v/v   | 5lfpst |      |        |          |          |
| 18 beacon     | 75 d    | .019 lb ai/A | 5lfpst |      | 0.0 d  | 86.3 bcd | 71.3 b-e |
| 18 banvel     | 4.00 l  | .067 lb ai/A | 5lfpst |      |        |          |          |
| 18 X-77       | l       | .250 % v/v   | 5lfpst |      |        |          |          |
| 19 beacon     | 75 d    | .019 lb ai/A | 5lfpst |      | 0.0 d  | 91.3 abc | 67.5 cde |
| 19 banvel     | 4.00 l  | .067 lb ai/A | 5lfpst |      |        |          |          |
| 19 coc        | l       | .500 % v/v   | 5lfpst |      |        |          |          |
| 20 atrazine   | 4.00 l  | 1.50 lb ai/A | pre    |      | 67.5 b | 92.5 abc | 98.8 a   |
| 20 prowl      | 4.00 l  | 1.00 lb ai/A | pre    |      |        |          |          |
| 21 clarity    | 4.00 l  | .50 lb ai/A  | pre    |      | 50.0 c | 87.5 abc | 83.8 a-d |
| 21 prowl      | 4.00 l  | 1.00 lb ai/A | pre    |      |        |          |          |
| 22 atrazine   | 4.00 l  | 1.50 lb ai/A | pre    |      | 62.5 b | 95.0 abc | 95.0 a   |
| 22 beacon     | 75 d    | .019 lb ai/A | 5lfpst |      |        |          |          |
| 22 2,4-D      | 4.00 l  | .125 lb ai/A | 5lfpst |      |        |          |          |
| 22 X-77       | l       | .250 % v/v   | 5lfpst |      |        |          |          |
| 23 atrazine   | 4.00 l  | 1.50 lb ai/A | pre    |      | 71.3 b | 92.5 abc | 95.0 a   |
| 23 beacon     | 75 d    | .019 lb ai/A | 5lfpst |      |        |          |          |
| 23 2,4-D      | 4.00 l  | .250 lb ai/A | 5lfpst |      |        |          |          |
| 23 X-77       | l       | .250 % v/v   | 5lfpst |      |        |          |          |

10-24-93 (PREPOCOR.DAT)

## SUMMARY

VPI &amp; SU

PRE VS POST CORN WEED CONTROL

Project Code:PREPOCOR

Location :NEW KENT, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

|                  |         |         |         |
|------------------|---------|---------|---------|
| Weed/Crop Code   | DIGSA   | PANDI   | DIGSA   |
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-100   | 0-100   | 0-100   |
| Rating Date      | 5-17-93 | 7-13-93 | 7-13-93 |

| Trt Treatment     | Form Fm | Rate         | Grow   | Appl |         |          |         |
|-------------------|---------|--------------|--------|------|---------|----------|---------|
| No Name           | Amt Ds  | Rate Unit    | Stg    | Code |         |          |         |
| 24 atrazine       | 4.00 l  | 1.50 lb ai/A | pre    |      | 68.8 b  | 96.3 abc | 91.3 a  |
| 24 beacon         | 75 d    | .019 lb ai/A | 5lfpst |      |         |          |         |
| 24 banvel         | 4.00 l  | .067 lb ai/A | 5lfpst |      |         |          |         |
| 24 X-77           | l       | .250 % v/v   | 5lfpst |      |         |          |         |
| 25 atrazine       | 4.00 l  | 1.50 lb ai/A | pre    |      | 61.3 b  | 97.5 ab  | 95.0 a  |
| 25 beacon         | 75 d    | .019 lb ai/A | 5lfpst |      |         |          |         |
| 25 banvel         | 4.00 l  | .125 lb ai/A | 5lfpst |      |         |          |         |
| 25 X-77           | l       | .250 % v/v   | 5lfpst |      |         |          |         |
| 26 control        |         |              |        |      | 0.0 d   | 0.0 e    | 0.0 g   |
| LSD (.05) =       |         |              |        |      | 10.5    | 9.5      | 17.0    |
| Standard Dev.=    |         |              |        |      | 7.40560 | 6.74323  | 12.0463 |
| CV =              |         |              |        |      | 21.54   | 7.65     | 15.07   |
| Block F           |         |              |        |      | 2.541   | 1.528    | 0.139   |
| Block Prob(F)     |         |              |        |      | 0.0627  | 0.2142   | 0.9366  |
| Treatment F       |         |              |        |      | 101.784 | 30.781   | 15.858  |
| Treatment Prob(F) |         |              |        |      | 0.0001  | 0.0001   | 0.0001  |

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

- End of Report -

10-26-93 (VAAGEXPO.DD)

SITE DESC.

VPI &amp; SU

VIRGINIA AGRIC. EXPO TRIAZINE RESISTANT PIGWEED

Project Code:VAAGEXPO

Location :SPOTSYLVANIA, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-3-93

Variety PIONEER 3394

Row Width 30"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance NO TILL INTO CORN STUBBLE AND HEAVY MANURE

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SANDY LOAM

% Sand \_\_\_\_\_ % Silt \_\_\_\_\_

% Clay \_\_\_\_\_

Soil Series ATPLING

% OM 1.7

pH 6.9

CEC \_\_\_\_\_

## Application Information

A

B

C

D

E

F

Date Treated

5-3-93

5-27-93

Time Treated

3-5 PM

12-1 PM

Cloud Cover

90%

5%

Air Temperature

75 F

84 F

Relative Humidity

50%

60%

Wind Speed/Direction

5-7 W

3-5 W

Soil Temperature

50 F

Soil/Leaf Surface Moisture

DRY

DRY

Soil Subsurface Moisture

MOIST

MOIST

Soil Tilth

FAIR

FAIR

Crop Stage

PRE

POST

Pest Name, Stage &amp; Density

AMARE 3-5 LEAF

2-5"

CYPES

5-8"

## Application Equipment

Sprayer  
TypeSpeed  
MPHNozzle  
TypeNozzle  
SizeNozzle  
HeightNozzle  
SpacingBoom  
Width

GPA

Carrier

PSI

1. CO/2 BACKPACK

3.1

FLAT FAN

8003LP

20"

18"

72"

22.5

WATER

22

2. CO/2 BACKPACK

3.1

FLAT FAN

8003

20"

18"

72"

22.5

WATER

32

3.

4.

5.

6.

## Comments

1.5 qts/acre Roundup applied with all preemergence treatments.

NAF-2 is broadstrike plus dual as a premix.

10-3-93 (VAAGEXPO.DAT)

SUMMARY

VPI &amp; SU

VIRGINIA AGRIC. EXPO TRIAZINE RESISTANT PIGWEED

Project Code:VAAGEXPO

Location :SPOTSYLVANIA, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

|                  |         |         |         |         |         |         |
|------------------|---------|---------|---------|---------|---------|---------|
| Weed/Crop Code   | OVERALL | AMACH   | CYPES   | OVERALL | AMACH   | CYPES   |
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-100   | 0-100   | 0-100   | 0-100   | 0-100   |
| Rating Date      | 5-27-93 | 5-27-93 | 5-27-93 | 6-14-93 | 6-14-93 | 6-14-93 |

| Trt Treatment | Form Fm | Rate    | Grow    | Appl  |      |          |         |          |          |                   |
|---------------|---------|---------|---------|-------|------|----------|---------|----------|----------|-------------------|
| No Name       | Amt     | Ds Rate | Unit    | Stg   | Code |          |         |          |          |                   |
| 1 bicep       | 5.00 l  | 3.00    | lb ai/A | pre   |      | 88.8 a   | 93.8 a  | 82.5 abc | 71.7 a-f | 68.3 efg 75.0 a-f |
| 2 bicep       | 5.00 l  | 3.00    | lb ai/A | pre   |      | 82.5 abc | 85.0 a  | 77.5 a-e | 92.5 a   | 98.8 a 90.0 ab    |
| 2 beacon      | 75 d    | .019    | lb ai/A | post  |      |          |         |          |          |                   |
| 2 X-77        | l       | .250    | % v/v   | post  |      |          |         |          |          |                   |
| 3 bicep       | 5.00 l  | 3.00    | lb ai/A | pre   |      | 91.3 a   | 93.8 a  | 87.5 ab  | 88.8 ab  | 96.3 abc 77.5 a-f |
| 3 banvel      | 4.00 l  | .250    | lb ai/A | post  |      |          |         |          |          |                   |
| 4 bicep       | 5.00 l  | 3.00    | lb ai/A | pre   |      | 83.8 abc | 85.0 a  | 78.8 a-e | 92.5 a   | 95.0 abc 91.3 ab  |
| 4 beacon      | 75 d    | .019    | lb ai/A | post  |      |          |         |          |          |                   |
| 4 X-77        | l       | .250    | % v/v   | post  |      |          |         |          |          |                   |
| 5 bicep       | 6.00 l  | 3.00    | lb ai/A | pre   |      | 86.3 ab  | 90.0 a  | 78.8 a-e | 60.0 d-h | 58.8 f-i 60.0 d-g |
| 6 bicep       | 6.00 l  | 2.70    | lb ai/A | pre   |      | 90.0 a   | 91.3 a  | 86.3 ab  | 77.5 a-f | 75.0 b-f 78.8 a-f |
| 6 prowl       | 4.00 l  | 1.00    | lb ai/A | pre   |      |          |         |          |          |                   |
| 7 dual        | 8.00 l  | 2.00    | lb ai/A | pre   |      | 90.0 a   | 91.3 a  | 77.5 a-e | 78.8 a-f | 73.8 c-f 78.8 a-f |
| 7 prowl       | 4.00 l  | 1.00    | lb ai/A | pre   |      |          |         |          |          |                   |
| 8 bladex      | 90 d    | 2.00    | lb ai/A | pre   |      | 88.8 a   | 91.3 a  | 73.8 a-f | 61.3 c-g | 63.8 fgh 72.5 a-f |
| 8 partner     | 65 d    | 2.00    | lb ai/A | pre   |      |          |         |          |          |                   |
| 9 bladex      | 90 d    | 2.00    | lb ai/A | pre   |      | 38.8 ef  | 23.8 d  | 33.8 h   | 81.3 a-e | 88.8 a-e 61.3 c-g |
| 9 marksman    | 3.20 l  | 1.40    | lb ai/A | spike |      |          |         |          |          |                   |
| 10 bladex     | 90 d    | 2.00    | lb ai/A | pre   |      | 83.8 abc | 83.8 a  | 81.3 a-d | 58.3 e-h | 56.7 f-j 63.3 b-g |
| 10 dual       | 8.00 l  | 1.50    | lb ai/A | pre   |      |          |         |          |          |                   |
| 11 bladex     | 90 d    | 2.00    | lb ai/A | pre   |      | 66.7 a-d | 76.7 ab | 51.7 b-h | 58.3 e-h | 58.3 f-i 55.0 fgh |
| 11 prowl      | 4.00 l  | 1.00    | lb ai/A | pre   |      |          |         |          |          |                   |
| 12 bladex     | 90 d    | 2.00    | lb ai/A | pre   |      | 40.0 ef  | 40.0 cd | 43.3 e-h | 36.7 h   | 36.7 j 33.3 hi    |
| 12 lorox      | 50 d    | .50     | lb ai/A | pre   |      |          |         |          |          |                   |
| 13 extrazine  | 88.9 d  | 3.00    | lb ai/A | pre   |      | 87.5 a   | 87.5 a  | 87.5 ab  | 75.0 a-f | 62.5 fgh 85.0 a-e |
| 13 partner    | 65 d    | 2.00    | lb ai/A | pre   |      |          |         |          |          |                   |
| 14 extrazine  | 88.9 d  | 3.00    | lb ai/A | pre   |      | 51.3 def | 53.8 c  | 47.5 c-h | 91.3 a   | 97.5 ab 78.8 a-f  |
| 14 marksman   | 3.20 l  | 1.40    | lb ai/A | spike |      |          |         |          |          |                   |
| 15 extrazine  | 88.9 d  | 3.00    | lb ai/A | pre   |      | 91.3 a   | 92.5 a  | 86.3 ab  | 60.0 d-h | 66.3 fgh 77.5 a-f |
| 15 dual       | 8.00 l  | 1.50    | lb ai/A | pre   |      |          |         |          |          |                   |

10-3-93 (VAAGEXPO.DAT)

## SUMMARY

VPI &amp; SU

VIRGINIA AGRIC. EXPO TRIAZINE RESISTANT PIGWEED

Project Code:VAAGEXPO

Location :SPOTSYLVANIA, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

| Seed/Crop Code   | OVERALL | AMACH   | CYPES   | OVERALL | AMACH   | CYPES   |
|------------------|---------|---------|---------|---------|---------|---------|
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-100   | 0-100   | 0-100   | 0-100   | 0-100   |
| Rating Date      | 5-27-93 | 5-27-93 | 5-27-93 | 6-14-93 | 6-14-93 | 6-14-93 |

| Trt Treatment | Form Fm     | Rate    | Grow | Appl |          |         |          |          |          |          |
|---------------|-------------|---------|------|------|----------|---------|----------|----------|----------|----------|
| No Name       | Amt Ds Rate | Unit    | Stg  | Code |          |         |          |          |          |          |
| 16 extrazine  | 88.9 d 3.00 | lb ai/A | pre  |      | 58.8 c-f | 57.5 bc | 51.3 b-h | 42.5 gh  | 40.0 ij  | 41.3 ghi |
| 16 prowl      | 4.00 l 1.00 | lb ai/A | pre  |      |          |         |          |          |          |          |
| 17 extrazine  | 88.9 d 3.00 | lb ai/A | pre  |      | 60.0 b-e | 58.8 bc | 52.5 b-h | 41.3 gh  | 45.0 hij | 25.0 i   |
| 17 lorox      | 50 d .50    | lb ai/A | pre  |      |          |         |          |          |          |          |
| 18 extrazine  | 88.9 d 2.00 | lb ai/A | pre  |      | 42.5 def | 37.5 cd | 50.0 c-h | 93.3 a   | 96.7 abc | 90.0 ab  |
| 18 accent     | 75 d .031   | lb ai/A | post |      |          |         |          |          |          |          |
| 18 banvel     | 4.00 l .125 | lb ai/A | post |      |          |         |          |          |          |          |
| 18 X-77       | l .250      | % v/v   | post |      |          |         |          |          |          |          |
| 19 extrazine  | 88.9 d 2.00 | lb ai/A | pre  |      | 33.8 ef  | 43.8 cd | 47.5 c-h | 92.5 a   | 95.0 abc | 91.3 ab  |
| 19 accent     | 75 d .031   | lb ai/A | post |      |          |         |          |          |          |          |
| 19 marksman   | 3.20 l .80  | lb ai/A | post |      |          |         |          |          |          |          |
| 19 X-77       | l .250      | % v/v   | post |      |          |         |          |          |          |          |
| 20 NAF-2      | 7.66 l 2.39 | lb ai/A | pre  |      | 81.3 abc | 83.8 a  | 71.3 a-g | 76.3 a-f | 68.8 efg | 77.5 a-f |
| 21 bladex     | 90 d 1.00   | lb ai/A | pre  |      | 47.5 def | 47.5 c  | 40.0 fgh | 85.0 abc | 96.3 abc | 83.8 a-e |
| 21 accent     | 75 d .031   | lb ai/A | post |      |          |         |          |          |          |          |
| 21 banvel     | 4.00 l .125 | lb ai/A | post |      |          |         |          |          |          |          |
| 21 X-77       | l .250      | % v/v   | post |      |          |         |          |          |          |          |
| 22 bladex     | 90 d 1.00   | lb ai/A | pre  |      | 52.5 def | 40.0 cd | 45.0 d-h | 86.7 ab  | 95.0 abc | 80.0 a-f |
| 22 accent     | 75 d .031   | lb ai/A | post |      |          |         |          |          |          |          |
| 22 marksman   | 3.20 l .80  | lb ai/A | post |      |          |         |          |          |          |          |
| 22 X-77       | l .250      | % v/v   | post |      |          |         |          |          |          |          |
| 23 bladex     | 90 d 2.00   | lb ai/A | pre  |      | 32.5 f   | 50.0 c  | 37.5 gh  | 92.5 a   | 96.3 abc | 87.5 a-d |
| 23 accent     | 75 d .031   | lb ai/A | post |      |          |         |          |          |          |          |
| 23 banvel     | 4.00 l .125 | lb ai/A | post |      |          |         |          |          |          |          |
| 23 X-77       | l .250      | % v/v   | post |      |          |         |          |          |          |          |
| 24 bladex     | 90 d 2.00   | lb ai/A | pre  |      | 40.0 ef  | 45.0 cd | 48.8 c-h | 87.5 ab  | 95.0 abc | 83.8 a-e |
| 24 accent     | 75 d .031   | lb ai/A | post |      |          |         |          |          |          |          |
| 24 marksman   | 3.20 l .80  | lb ai/A | post |      |          |         |          |          |          |          |
| 24 X-77       | l .250      | % v/v   | post |      |          |         |          |          |          |          |
| 25 NAF-2      | 7.66 l 2.39 | lb ai/A | pre  |      | 91.7 a   | 91.7 a  | 91.7 a   | 91.7 a   | 93.3 abc | 90.0 ab  |
| 25 atrazine   | 4.00 l 1.00 | lb ai/A | pre  |      |          |         |          |          |          |          |
| 26 accent     | 75 d .031   | lb ai/A | post |      |          |         |          | 83.8 a-d | 88.8 a-e | 77.5 a-f |
| 26 marksman   | 3.20 l 1.20 | lb ai/A | post |      |          |         |          |          |          |          |
| 26 X-77       | l .250      | % v/v   | post |      |          |         |          |          |          |          |

10-3-93 (VAAGEXPO.DAT)

## SUMMARY

VPI &amp; SU

VIRGINIA AGRIC. EXPO TRIAZINE RESISTANT PIGWEED

Project Code:VAAGEXPO

Location :SPOTSYLVANIA, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

| Weed/Crop Code   | OVERALL | AMACH   | CYPES   | OVERALL | AMACH   | CYPES   |
|------------------|---------|---------|---------|---------|---------|---------|
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-100   | 0-100   | 0-100   | 0-100   | 0-100   |
| Rating Date      | 5-27-93 | 5-27-93 | 5-27-93 | 6-14-93 | 6-14-93 | 6-14-93 |

| Trt Treatment     | Form Fm     | Rate    | Grow | Appl |          |          |          |
|-------------------|-------------|---------|------|------|----------|----------|----------|
| No Name           | Amt Ds Rate | Unit    | Stg  | Code |          |          |          |
| 27 accent         | 75 d .031   | lb ai/A | post |      | 87.5 ab  | 91.3 a-d | 82.5 a-f |
| 27 butril         | 2.00 l .50  | lb ai/A | post |      |          |          |          |
| 27 X-77           | l .250      | % v/v   | post |      |          |          |          |
| 28 accent         | 75 d .031   | lb ai/A | post |      | 88.8 ab  | 90.0 a-e | 88.8 abc |
| 28 atrazine       | 4.00 l .90  | lb ai/A | post |      |          |          |          |
| 28 X-77           | l .250      | % v/v   | post |      |          |          |          |
| 29 accent         | 75 d .031   | lb ai/A | post |      | 87.5 ab  | 88.8 a-e | 85.0 a-e |
| 29 atrazine       | 4.00 l .90  | lb ai/A | post |      |          |          |          |
| 29 banvel         | 4.00 l .125 | lb ai/A | post |      |          |          |          |
| 29 X-77           | l .250      | % v/v   | post |      |          |          |          |
| 30 accent         | 75 d .031   | lb ai/A | post |      | 93.3 a   | 96.7 abc | 91.7 a   |
| 30 banvel         | 4.00 l .125 | lb ai/A | post |      |          |          |          |
| 30 X-77           | l .250      | % v/v   | post |      |          |          |          |
| 31 accent         | 75 d .031   | lb ai/A | post |      | 83.3 a-d | 95.0 abc | 85.0 a-e |
| 31 banvel         | 4.00 l .250 | lb ai/A | post |      |          |          |          |
| 31 X-77           | l .250      | % v/v   | post |      |          |          |          |
| 32 accent         | 75 d .031   | lb ai/A | post |      | 88.8 ab  | 93.8 abc | 85.0 a-e |
| 32 X-77           | l .250      | % v/v   | post |      |          |          |          |
| 33 atrazine       | 4.00 l 1.50 | lb ai/A | pre  |      | 86.3 ab  | 86.3 a   | 73.8 abc |
| 33 frontier       | 7.50 l 1.00 | lb ai/A | pre  |      | 55.0 fgh | 47.5 g-j | 57.5 e-h |
| 34 atrazine       | 4.00 l 1.50 | lb ai/A | pre  |      | 86.3 ab  | 87.5 a   | 80.0 abc |
| 34 frontier       | 7.50 l 1.00 | lb ai/A | pre  |      | 91.3 a   | 96.3 abc | 86.3 a-d |
| 34 clarity        | 4.00 l .50  | lb ai/A | post |      |          |          |          |
| 35 clarity        | 4.00 l .50  | lb ai/A | pre  |      | 77.5 abc | 78.8 ab  | 63.8 abc |
| 35 prowl          | 4.00 l 1.00 | lb ai/A | pre  |      | 63.8 b-g | 70.0 def | 60.0 d-g |
| 36 control        |             |         |      |      | 0.0 g    | 0.0 e    | 0.0 i    |
|                   |             |         |      |      | 0.0 i    | 0.0 k    | 0.0 j    |
| LSD (.05) =       |             |         |      |      | 22.5     | 20.2     | 29.8     |
| Standard Dev.=    |             |         |      |      | 20.7     | 18.6     | 22.5     |
| CV =              |             |         |      |      | 15.9263  | 14.2516  | 21.0668  |
|                   |             |         |      |      | 14.7888  | 13.2658  | 16.0660  |
|                   |             |         |      |      | 23.68    | 20.80    | 33.45    |
|                   |             |         |      |      | 19.75    | 17.21    | 22.02    |
| Block F           |             |         |      |      | 8.836    | 4.057    | 8.803    |
| Block Prob(F)     |             |         |      |      | 1.463    | 0.747    | 3.166    |
| Treatment F       |             |         |      |      | 0.0001   | 0.0098   | 0.0001   |
| Treatment Prob(F) |             |         |      |      | 0.2296   | 0.5271   | 0.0281   |
|                   |             |         |      |      | 9.592    | 12.860   | 4.270    |
|                   |             |         |      |      | 7.945    | 12.160   | 6.639    |
|                   |             |         |      |      | 0.0001   | 0.0001   | 0.0001   |
|                   |             |         |      |      | 0.0001   | 0.0001   | 0.0001   |

10-3-93 (VAAGEXPO.DAT)

## SUMMARY

VPI &amp; SU

VIRGINIA AGRIC. EXPO TRIAZINE RESISTANT PIGWEED

Project Code:VAAGEXPO

Location :SPOTSYLVANIA, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

| Weed/Crop Code   | OVERALL | AMACH   | CYPES   | OVERALL | AMACH   | CYPES   |
|------------------|---------|---------|---------|---------|---------|---------|
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-100   | 0-100   | 0-10    | 0-100   | 0-100   |
| Rating Date      | 7-13-93 | 7-13-93 | 7-13-93 | 8-12-93 | 8-12-93 | 8-12-93 |

| Trt Treatment | Form Fm     | Rate    | Grow  | Appl |          |          |          |          |          |          |
|---------------|-------------|---------|-------|------|----------|----------|----------|----------|----------|----------|
| No Name       | Amt Ds Rate | Unit    | Stg   | Code |          |          |          |          |          |          |
| 1 bicep       | 5.00 l 3.00 | lb ai/A | pre   |      | 6.00 c-f | 48.3 d-g | 68.3 a-e | 5.50 c   | 40.0 efg | 66.7 a-e |
| 2 bicep       | 5.00 l 3.00 | lb ai/A | pre   |      | 9.25 a   | 96.3 a   | 88.8 ab  | 8.75 bc  | 96.3 a   | 81.3 abc |
| 2 beacon      | 75 d .019   | lb ai/A | post  |      |          |          |          |          |          |          |
| 2 X-77        | l .250      | % v/v   | post  |      |          |          |          |          |          |          |
| 3 bicep       | 5.00 l 3.00 | lb ai/A | pre   |      | 8.88 ab  | 96.3 a   | 80.0 a-e | 8.38 bc  | 96.3 a   | 72.5 a-d |
| 3 banvel      | 4.00 l .250 | lb ai/A | post  |      |          |          |          |          |          |          |
| 4 bicep       | 5.00 l 3.00 | lb ai/A | pre   |      | 9.13 a   | 93.8 ab  | 90.0 ab  | 8.63 bc  | 93.8 ab  | 85.0 abc |
| 4 beacon      | 75 d .019   | lb ai/A | post  |      |          |          |          |          |          |          |
| 4 X-77        | l .250      | % v/v   | post  |      |          |          |          |          |          |          |
| 5 bicep       | 6.00 l 3.00 | lb ai/A | pre   |      | 5.88 def | 55.0 c-g | 63.8 b-f | 5.75 c   | 48.8 def | 68.8 a-e |
| 6 bicep       | 6.00 l 2.70 | lb ai/A | pre   |      | 7.13 a-e | 67.5 cd  | 72.5 a-e | 6.38 c   | 65.0 cd  | 68.8 a-e |
| 6 prowl       | 4.00 l 1.00 | lb ai/A | pre   |      |          |          |          |          |          |          |
| 7 dual        | 8.00 l 2.00 | lb ai/A | pre   |      | 7.25 a-e | 68.8 cd  | 72.5 a-e | 6.00 c   | 71.3 bcd | 68.8 a-e |
| 7 prowl       | 4.00 l 1.00 | lb ai/A | pre   |      |          |          |          |          |          |          |
| 8 bladex      | 90 d 2.00   | lb ai/A | pre   |      | 6.63 b-f | 60.0 cde | 71.3 a-e | 6.13 c   | 60.0 de  | 67.5 a-e |
| 8 partner     | 65 d 2.00   | lb ai/A | pre   |      |          |          |          |          |          |          |
| 9 bladex      | 90 d 2.00   | lb ai/A | pre   |      | 8.00 a-d | 91.3 ab  | 66.5 a-e | 7.63 c   | 87.5 ab  | 65.0 a-e |
| 9 marksman    | 3.20 l 1.40 | lb ai/A | spike |      |          |          |          |          |          |          |
| 10 bladex     | 90 d 2.00   | lb ai/A | pre   |      | 5.17 efg | 50.0 d-g | 56.7 c-g | 5.17 c   | 53.3 def | 51.7 def |
| 10 dual       | 8.00 l 1.50 | lb ai/A | pre   |      |          |          |          |          |          |          |
| 11 bladex     | 90 d 2.00   | lb ai/A | pre   |      | 6.00 c-f | 60.0 cde | 50.0 e-h | 6.17 c   | 63.3 cd  | 58.3 cde |
| 11 prowl      | 4.00 l 1.00 | lb ai/A | pre   |      |          |          |          |          |          |          |
| 12 bladex     | 90 d 2.00   | lb ai/A | pre   |      | 2.83 h   | 23.3 h   | 33.3 gh  | 3.33 c   | 23.3 g   | 30.0 fg  |
| 12 lorox      | 50 d .50    | lb ai/A | pre   |      |          |          |          |          |          |          |
| 13 extrazine  | 88.9 d 3.00 | lb ai/A | pre   |      | 7.50 a-e | 60.0 cde | 85.0 a-d | 7.50 c   | 57.5 de  | 82.5 abc |
| 13 partner    | 65 d 2.00   | lb ai/A | pre   |      |          |          |          |          |          |          |
| 14 extrazine  | 88.9 d 3.00 | lb ai/A | pre   |      | 8.88 ab  | 93.8 ab  | 80.0 a-e | 31.00 a  | 92.5 ab  | 86.3 abc |
| 14 marksman   | 3.20 l 1.40 | lb ai/A | spike |      |          |          |          |          |          |          |
| 15 extrazine  | 88.9 d 3.00 | lb ai/A | pre   |      | 6.13 c-f | 63.8 cd  | 72.5 a-e | 27.50 ab | 61.3 cde | 71.3 a-d |
| 15 dual       | 8.00 l 1.50 | lb ai/A | pre   |      |          |          |          |          |          |          |

10-3-93 (VAAGEXPO.DAT)

## SUMMARY

## VPI &amp; SU

## VIRGINIA AGRIC. EXPO TRIAZINE RESISTANT PIGWEED

Project Code:VAAGEXPO

Location :SPOTSYLVANIA, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

| Weed/Crop Code   | OVERALL | AMACH   | CYPES   | OVERALL | AMACH   | CYPES   |
|------------------|---------|---------|---------|---------|---------|---------|
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-100   | 0-100   | 0-10    | 0-100   | 0-100   |
| Rating Date      | 7-13-93 | 7-13-93 | 7-13-93 | 8-12-93 | 8-12-93 | 8-12-93 |

| Trt Treatment | Form Fm     | Rate    | Grow | Appl |          |          |          |         |          |          |
|---------------|-------------|---------|------|------|----------|----------|----------|---------|----------|----------|
| No Name       | Amt Ds Rate | Unit    | Stg  | Code |          |          |          |         |          |          |
| 16 extrazine  | 88.9 d 3.00 | lb ai/A | pre  |      | 3.63 gh  | 36.3 fgh | 36.3 fgh | 3.38 c  | 31.3 fg  | 42.5 efg |
| 16 prowl      | 4.00 l 1.00 | lb ai/A | pre  |      |          |          |          |         |          |          |
| 17 extrazine  | 88.9 d 3.00 | lb ai/A | pre  |      | 3.50 gh  | 40.0 e-h | 23.8 hi  | 3.00 c  | 40.0 efg | 20.0 gh  |
| 17 lorox      | 50 d .50    | lb ai/A | pre  |      |          |          |          |         |          |          |
| 18 extrazine  | 88.9 d 2.00 | lb ai/A | pre  |      | 9.50 a   | 95.0 ab  | 91.7 ab  | 9.33 bc | 95.0 ab  | 91.7 ab  |
| 18 accent     | 75 d .031   | lb ai/A | post |      |          |          |          |         |          |          |
| 18 banvel     | 4.00 l .125 | lb ai/A | post |      |          |          |          |         |          |          |
| 18 X-77       | l .250      | % v/v   | post |      |          |          |          |         |          |          |
| 19 extrazine  | 88.9 d 2.00 | lb ai/A | pre  |      | 9.13 a   | 93.8 ab  | 88.8 ab  | 9.13 bc | 93.8 ab  | 90.0 ab  |
| 19 accent     | 75 d .031   | lb ai/A | post |      |          |          |          |         |          |          |
| 19 marksman   | 3.20 l .80  | lb ai/A | post |      |          |          |          |         |          |          |
| 19 X-77       | l .250      | % v/v   | post |      |          |          |          |         |          |          |
| 20 NAF-2      | 7.66 l 2.39 | lb ai/A | pre  |      | 7.38 a-e | 73.8 bc  | 71.3 a-e | 7.63 c  | 82.5 abc | 75.0 a-d |
| 21 bladex     | 90 d 1.00   | lb ai/A | pre  |      | 9.25 a   | 97.5 a   | 88.8 ab  | 9.25 bc | 96.3 a   | 88.8 ab  |
| 21 accent     | 75 d .031   | lb ai/A | post |      |          |          |          |         |          |          |
| 21 banvel     | 4.00 l .125 | lb ai/A | post |      |          |          |          |         |          |          |
| 21 X-77       | l .250      | % v/v   | post |      |          |          |          |         |          |          |
| 22 bladex     | 90 d 1.00   | lb ai/A | pre  |      | 8.33 abc | 93.3 ab  | 71.7 a-e | 8.50 bc | 93.3 ab  | 76.7 a-d |
| 22 accent     | 75 d .031   | lb ai/A | post |      |          |          |          |         |          |          |
| 22 marksman   | 3.20 l .80  | lb ai/A | post |      |          |          |          |         |          |          |
| 22 X-77       | l .250      | % v/v   | post |      |          |          |          |         |          |          |
| 23 bladex     | 90 d 2.00   | lb ai/A | pre  |      | 9.50 a   | 96.3 a   | 91.3 ab  | 9.38 bc | 95.0 ab  | 91.3 ab  |
| 23 accent     | 75 d .031   | lb ai/A | post |      |          |          |          |         |          |          |
| 23 banvel     | 4.00 l .125 | lb ai/A | post |      |          |          |          |         |          |          |
| 23 X-77       | l .250      | % v/v   | post |      |          |          |          |         |          |          |
| 24 bladex     | 90 d 2.00   | lb ai/A | pre  |      | 9.00 ab  | 96.3 a   | 85.0 a-d | 9.00 bc | 96.3 a   | 86.3 abc |
| 24 accent     | 75 d .031   | lb ai/A | post |      |          |          |          |         |          |          |
| 24 marksman   | 3.20 l .80  | lb ai/A | post |      |          |          |          |         |          |          |
| 24 X-77       | l .250      | % v/v   | post |      |          |          |          |         |          |          |
| 25 NAF-2      | 7.66 l 2.39 | lb ai/A | pre  |      | 9.17 a   | 91.7 ab  | 90.0 ab  | 9.17 bc | 90.0 ab  | 90.0 ab  |
| 25 atrazine   | 4.00 l 1.00 | lb ai/A | pre  |      |          |          |          |         |          |          |
| 26 accent     | 75 d .031   | lb ai/A | post |      | 8.63 ab  | 95.0 ab  | 77.5 a-e | 8.75 bc | 92.5 ab  | 81.3 abc |
| 26 marksman   | 3.20 l 1.20 | lb ai/A | post |      |          |          |          |         |          |          |
| 26 X-77       | l .250      | % v/v   | post |      |          |          |          |         |          |          |

10-3-93 (VAAGEXPO.DAT)

## SUMMARY

VPI &amp; SU

VIRGINIA AGRIC. EXPO TRIAZINE RESISTANT PIGWEED

Project Code:VAAGEXPO

Location :SPOTSYLVANIA, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

| Weed/Crop Code   | OVERALL | AMACH   | CYPES   | OVERALL | AMACH   | CYPES   |
|------------------|---------|---------|---------|---------|---------|---------|
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-100   | 0-100   | 0-10    | 0-100   | 0-100   |
| Rating Date      | 7-13-93 | 7-13-93 | 7-13-93 | 8-12-93 | 8-12-93 | 8-12-93 |

| Trt Treatment | Form Fm     | Rate    | Grow | Appl |          |          |          |         |          |          |
|---------------|-------------|---------|------|------|----------|----------|----------|---------|----------|----------|
| No Name       | Amt Ds Rate | Unit    | Stg  | Code |          |          |          |         |          |          |
| 27 accent     | 75 d .031   | lb ai/A | post |      | 9.00 ab  | 93.8 ab  | 86.3 abc | 9.00 bc | 92.5 ab  | 88.8 ab  |
| 27 buctril    | 2.00 l .50  | lb ai/A | post |      |          |          |          |         |          |          |
| 27 X-77       | l .250      | % v/v   | post |      |          |          |          |         |          |          |
| 28 accent     | 75 d .031   | lb ai/A | post |      | 9.25 a   | 95.0 ab  | 88.8 ab  | 9.13 bc | 93.8 ab  | 87.5 abc |
| 28 atrazine   | 4.00 l .90  | lb ai/A | post |      |          |          |          |         |          |          |
| 28 X-77       | l .250      | % v/v   | post |      |          |          |          |         |          |          |
| 29 accent     | 75 d .031   | lb ai/A | post |      | 9.13 a   | 96.3 a   | 87.5 ab  | 8.63 bc | 93.8 ab  | 83.8 abc |
| 29 atrazine   | 4.00 l .90  | lb ai/A | post |      |          |          |          |         |          |          |
| 29 banvel     | 4.00 l .125 | lb ai/A | post |      |          |          |          |         |          |          |
| 29 X-77       | l .250      | % v/v   | post |      |          |          |          |         |          |          |
| 30 accent     | 75 d .031   | lb ai/A | post |      | 9.50 a   | 93.3 ab  | 95.0 a   | 9.17 bc | 95.0 ab  | 93.3 a   |
| 30 banvel     | 4.00 l .125 | lb ai/A | post |      |          |          |          |         |          |          |
| 30 X-77       | l .250      | % v/v   | post |      |          |          |          |         |          |          |
| 31 accent     | 75 d .031   | lb ai/A | post |      | 9.17 a   | 95.0 ab  | 88.3 ab  | 8.83 bc | 93.3 ab  | 85.0 abc |
| 31 banvel     | 4.00 l .250 | lb ai/A | post |      |          |          |          |         |          |          |
| 31 X-77       | l .250      | % v/v   | post |      |          |          |          |         |          |          |
| 32 accent     | 75 d .031   | lb ai/A | post |      | 8.75 ab  | 93.8 ab  | 80.0 a-e | 8.63 bc | 90.0 ab  | 82.5 abc |
| 32 X-77       | l .250      | % v/v   | post |      |          |          |          |         |          |          |
| 33 atrazine   | 4.00 l 1.50 | lb ai/A | pre  |      | 4.63 fgh | 35.0 gh  | 51.3 efg | 4.50 c  | 35.0 fg  | 70.0 a-e |
| 33 frontier   | 7.50 l 1.00 | lb ai/A | pre  |      |          |          |          |         |          |          |
| 34 atrazine   | 4.00 l 1.50 | lb ai/A | pre  |      | 8.88 ab  | 93.8 ab  | 80.0 a-e | 8.50 bc | 91.3 ab  | 78.8 a-d |
| 34 frontier   | 7.50 l 1.00 | lb ai/A | pre  |      |          |          |          |         |          |          |
| 34 clarity    | 4.00 l .50  | lb ai/A | post |      |          |          |          |         |          |          |
| 35 clarity    | 4.00 l .50  | lb ai/A | pre  |      | 5.63 d-g | 56.3 c-f | 55.0 d-g | 5.50 c  | 50.0 def | 62.5 b-e |
| 35 prowl      | 4.00 l 1.00 | lb ai/A | pre  |      |          |          |          |         |          |          |
| 36 control    |             |         |      |      | 0.00 i   | 0.0 i    | 0.0 i    | 0.00 c  | 0.0 h    | 0.0 h    |

|                |         |         |         |         |         |         |
|----------------|---------|---------|---------|---------|---------|---------|
| LSD (.05) =    | 2.00    | 18.2    | 24.7    | 15.51   | 19.3    | 23.4    |
| Standard Dev.= | 1.42728 | 12.9795 | 17.6391 | 11.0763 | 13.7990 | 16.6984 |
| CV =           | 19.35   | 17.38   | 24.62   | 131.96  | 18.74   | 23.21   |

|                   |        |        |        |        |        |        |
|-------------------|--------|--------|--------|--------|--------|--------|
| Block F           | 3.094  | 2.703  | 3.085  | 2.349  | 6.663  | 6.186  |
| Block Prob(F)     | 0.0307 | 0.0499 | 0.0310 | 0.0775 | 0.0004 | 0.0007 |
| Treatment F       | 10.342 | 15.800 | 5.959  | 1.028  | 14.329 | 6.295  |
| Treatment Prob(F) | 0.0001 | 0.0001 | 0.0001 | 0.4437 | 0.0001 | 0.0001 |

10-24-93 (PURIRIT.DD)

SITE DESC.

VPI &amp; SU

POSTEMERGENCE WEED CONTROL WITH PURSUIT IN IR/IT CORN

Project Code: CYANAMID

Location : WHITETHORNE, VA.

Cooperator : E.S. HAGOOD

By: Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-11-93

Variety PIONEER 3143IT-NONIT Row Width 30"

Design RCB

No. Reps. 4 Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance SPRING PLOWED, DISK AND ROTO-TILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand

% Silt

% Clay

Soil Series ROSS

% OM

2.5

pH

6.3

CEC

## Application Information

A

B

C

D

E

F

Date Treated

5-26-93

Time Treated

9 AM

Cloud Cover

20%

Air Temperature

72 F

Relative Humidity

70%

Wind Speed/Direction

3-5 SW

Soil Temperature

Soil/Leaf Surface Moisture MOIST

Soil Subsurface Moisture MOIST

Soil Tilth

GOOD

Crop Stage

EPOST

Pest Name, Stage &amp; Density

## Application Equipment

Sprayer  
TypeSpeed  
MPHNozzle  
TypeNozzle  
SizeNozzle  
HeightNozzle  
SpacingBoom  
Width

GPA

Carrier

PSI

1. CO/2 BACKPACK 3.1 FLAT FAN 8003 20" 18" 72" 22.5 WATER 32

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

## Comments

COUNTER 15G (1.0 lb ai/A ) in furrow with all treatments. All plots were sprayed with NIS at 1/4% V/V and 1.25% of 28% N solution.

10-6-93 (PURIRIT.DAT)

## SUMMARY

## VPI &amp; SU

## POSTEMERGENCE WEED CONTROL WITH PURSUIT IN IR/IT CORN

Project Code: CYANAMID

Location : WHITETHORNE, VA.

Cooperator : E.S. HAGOOD

By: Dept. Plant Path., Phys.,

All rates are specified as lb ai/A

| Weed/Crop Code   | INJURY | INJURY  | INJURY  |
|------------------|--------|---------|---------|
| Rating Data Type | VISUAL | VISUAL  | VISUAL  |
| Rating Unit      | 0-10   | 0-10    | 0-10    |
| Rating Date      | 6-1-93 | 6-10-93 | 7-28-93 |

| Trt No | Treatment Name | Form Amt | Fm Ds | Rate | Grow Stg | Appl Code |        |       |        |
|--------|----------------|----------|-------|------|----------|-----------|--------|-------|--------|
| 1      | pursuit        | 2.00     | 1     | .063 | 2lfpst   |           | 4.3 b  | 4.0 d | 0.3 d  |
| 1      | NON IT CORN    |          |       |      |          |           |        |       |        |
| 2      | pursuit        | 2.00     | 1     | .063 | 2lfpst   |           | 4.5 ab | 5.3 c | 1.0 cd |
| 2      | atrazine       | 4.00     | 1     | .50  | 2lfpst   |           |        |       |        |
| 2      | NON IT CORN    |          |       |      |          |           |        |       |        |
| 3      | pursuit        | 2.00     | 1     | .063 | 2lfpst   |           | 5.5 a  | 4.8 c | 1.5 c  |
| 3      | buctril        | 2.00     | 1     | .250 | 2lfpst   |           |        |       |        |
| 3      | NON IT CORN    |          |       |      |          |           |        |       |        |
| 4      | pursuit        | 2.00     | 1     | .063 | 2lfpst   |           | 4.8 ab | 5.0 c | 1.5 c  |
| 4      | buctril        | 2.00     | 1     | .125 | 2lfpst   |           |        |       |        |
| 4      | NON IT CORN    |          |       |      |          |           |        |       |        |
| 5      | resolve        | 6.55     | 1     | 1.56 | 2lfpst   |           | 4.5 ab | 8.8 a | 6.0 a  |
| 5      | NON IT CORN    |          |       |      |          |           |        |       |        |
| 6      | pursuit plus   | 2.90     | 1     | .903 | 2lfpst   |           | 5.5 a  | 6.3 b | 3.0 b  |
| 6      | NON IT CORN    |          |       |      |          |           |        |       |        |
| 7      | control        |          |       |      |          |           | 0.0 d  | 0.3 e | 0.0 d  |
| 7      | NON IT CORN    |          |       |      |          |           |        |       |        |
| 8      | accent         | 75       | d     | .031 | 2lfpst   |           | 1.5 c  | 0.5 e | 0.0 d  |
| 8      | NON IT CORN    |          |       |      |          |           |        |       |        |
| 9      | beacon         | 75       | d     | .018 | 2lfpst   |           | 0.3 d  | 0.0 e | 0.0 d  |
| 9      | banvel         | 4.00     | 1     | .250 | 2lfpst   |           |        |       |        |
| 9      | NON IT CORN    |          |       |      |          |           |        |       |        |
| 10     | beacon         | 75       | d     | .018 | 2lfpst   |           | 0.8 cd | 0.3 e | 0.0 d  |
| 10     | NON IT CORN    |          |       |      |          |           |        |       |        |
| 11     | pursuit        | 2.00     | 1     | .063 | 2lfpst   |           | 0.3 d  | 0.5 e | 0.0 d  |
| 11     | IT CORN        |          |       |      |          |           |        |       |        |
| 12     | pursuit        | 2.00     | 1     | .063 | 2lfpst   |           | 0.3 d  | 0.3 e | 0.0 d  |
| 12     | atrazine       | 4.00     | 1     | .50  | 2lfpst   |           |        |       |        |
| 12     | IT CORN        |          |       |      |          |           |        |       |        |
| 13     | pursuit        | 2.00     | 1     | .063 | 2lfpst   |           | 0.5 d  | 0.0 e | 0.0 d  |
| 13     | buctril        | 2.00     | 1     | .250 | 2lfpst   |           |        |       |        |
| 13     | IT CORN        |          |       |      |          |           |        |       |        |

10-6-93 (PURIRIT.DAT)

## SUMMARY

## VPI &amp; SU

## POSTEMERGENCE WEED CONTROL WITH PURSUIT IN IR/IT CORN

Project Code: CYANAMID

Location : WHITETHORNE, VA.

Cooperator : E.S. HAGOOD

By: Dept. Plant Path., Phys.,

All rates are specified as lb ai/A

| Weed/Crop Code   | INJURY | INJURY  | INJURY  |
|------------------|--------|---------|---------|
| Rating Data Type | VISUAL | VISUAL  | VISUAL  |
| Rating Unit      | 0-10   | 0-10    | 0-10    |
| Rating Date      | 6-1-93 | 6-10-93 | 7-28-93 |

| Trt Treatment     | Form | Fm | Grow | Appl   |         |         |         |
|-------------------|------|----|------|--------|---------|---------|---------|
| No Name           | Amt  | Ds | Rate | Stg    | Code    |         |         |
| 14 pursuit        | 2.00 | 1  | .063 | 2lfpst | 0.0 d   | 0.3 e   | 0.0 d   |
| 14 buc tril       | 2.00 | 1  | .125 | 2lfpst |         |         |         |
| 14 IT CORN        |      |    |      |        |         |         |         |
| 15 resolve        | 6.55 | 1  | 1.56 | 2lfpst | 0.0 d   | 0.3 e   | 0.0 d   |
| 15 IT CORN        |      |    |      |        |         |         |         |
| 16 pursuit plus   | 2.90 | 1  | .903 | 2lfpst | 0.0 d   | 0.0 e   | 0.0 d   |
| 16 IT CORN        |      |    |      |        |         |         |         |
| 17 control        |      |    |      |        | 0.0 d   | 0.0 e   | 0.0 d   |
| 17 IT CORN        |      |    |      |        |         |         |         |
| 18 accent         | 75   | d  | .031 | 2lfpst | 0.0 d   | 0.3 e   | 0.0 d   |
| 18 IT CORN        |      |    |      |        |         |         |         |
| 19 beacon         | 75   | d  | .018 | 2lfpst | 0.3 d   | 0.0 e   | 0.0 d   |
| 19 banvel         | 4.00 | 1  | .250 | 2lfpst |         |         |         |
| 19 IT CORN        |      |    |      |        |         |         |         |
| 20 beacon         | 75   | d  | .018 | 2lfpst | 0.0 d   | 0.0 e   | 0.0 d   |
| 20 IT CORN        |      |    |      |        |         |         |         |
| LSD (.05) =       |      |    |      |        | 0.9     | 0.7     | 1.1     |
| Standard Dev.=    |      |    |      |        | .653097 | .483954 | .766772 |
| CV =              |      |    |      |        | 39.88   | 26.52   | 115.74  |
| Block F           |      |    |      |        | 0.733   | 3.060   | 2.969   |
| Block Prob(F)     |      |    |      |        | 0.5368  | 0.0354  | 0.0393  |
| Treatment F       |      |    |      |        | 45.068  | 126.753 | 14.962  |
| Treatment Prob(F) |      |    |      |        | 0.0001  | 0.0001  | 0.0001  |

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

- End of Report -

10-24-93 (RESOURCE.DD)

SITE DESC.

VPI &amp; SU

RESOURCE POST-EMERGENCE CORN TREATMENTS

Project Code:RESOURCE

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-11-93

Variety PIONEER 3154

Row Width 30"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance SPRING PLOWED, DISKED AND ROTO-TILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand

% Silt

% Clay

Soil Series ROSS

% OM

2.5

pH

6.3

CEC

## Application Information

A

B

C

D

E

F

Date Treated

6-2-93

Time Treated

8-9AM

Cloud Cover

10%

Air Temperature

75 F

Relative Humidity

75%

Wind Speed/Direction

0-3 SW

Soil Temperature

Soil/Leaf Surface Moisture

DRY

Soil Subsurface Moisture

MOIST

Soil Tilth

GOOD

Crop Stage

POST

Pest Name, Stage &amp; Density

EAMX 4 LEAF

4"

MBTR 4 LEAF

2-5"

IPOHE 1-2 LEAF

1"

PANDI 3 LEAF

1.5"

## Application Equipment

Sprayer  
TypeSpeed  
MPHNozzle  
TypeNozzle  
SizeNozzle  
HeightNozzle  
SpacingBoom  
Width

GPA

Carrier

PSI

CO/2 BACKPACK

3.1

FLAT FAN

8003

20"

18"

72"

22.5

WATER

32

## Comments

DATST 1.0" COTYLEDON stage

10-17-93 (RESOURCE.DAT)

SUMMARY

VPI &amp; SU

## RESOURCE POST-EMERGENCE CORN TREATMENTS

Project Code:RESOURCE

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

|                  |        |         |        |        |        |        |
|------------------|--------|---------|--------|--------|--------|--------|
| Weed/Crop Code   | INJURY | OVERALL | AMBTR  | IPOHE  | DATST  | AMARE  |
| Rating Data Type | VISUAL | VISUAL  | VISUAL | VISUAL | VISUAL | VISUAL |
| Rating Unit      | 0-10   | 0-100   | 0-100  | 0-100  | 0-100  | 0-100  |
| Rating Date      | 6-9-93 | 6-9-93  | 6-9-93 | 6-9-93 | 6-9-93 | 6-9-93 |

| Trt Treatment | Form Fm | Rate              | Grow | Appl |         |         |          |         |         |         |
|---------------|---------|-------------------|------|------|---------|---------|----------|---------|---------|---------|
| No Name       | Amt Ds  | Rate Unit         | Stg  | Code |         |         |          |         |         |         |
| 1 control     |         |                   |      |      | 0.0 e   | 0.00 e  | 0.00 d   | 0.0 e   | 0.0 d   | 0.0 d   |
| 2 resource    | .86 l   | .026 lb ai/A post |      |      | 1.3 a-d | 8.00 ab | 62.13 c  | 81.3 ab | 92.5 a  | 90.0 a  |
| 2 atrazine    | 4.00 l  | .500 lb ai/A post |      |      |         |         |          |         |         |         |
| 2 coc         | l       | .500 % v/v post   |      |      |         |         |          |         |         |         |
| 3 resource    | .86 l   | .026 lb ai/A post |      |      | 0.8 b-e | 8.13 ab | 83.75 ab | 86.3 ab | 93.8 a  | 93.8 a  |
| 3 banvel      | 4.00 l  | .500 lb ai/A post |      |      |         |         |          |         |         |         |
| 4 resource    | .86 l   | .026 lb ai/A post |      |      | 1.5 abc | 8.50 a  | 88.75 a  | 90.0 a  | 92.5 a  | 92.5 a  |
| 4 2,4-D ester | 4.00 l  | .250 lb ai/A post |      |      |         |         |          |         |         |         |
| 5 resource    | 0.86 l  | .026 lb ai/A post |      |      | 2.0 a   | 7.25 b  | 70.00 bc | 82.5 ab | 95.0 a  | 95.0 a  |
| 5 accent      | 75 d    | .031 lb ai/A post |      |      |         |         |          |         |         |         |
| 5 coc         | l       | .500 % v/v post   |      |      |         |         |          |         |         |         |
| 6 resource    | .86 l   | .026 lb ai/A post |      |      | 0.5 cde | 4.00 d  | 15.00 d  | 42.5 d  | 45.0 c  | 52.5 c  |
| 7 banvel      | 4.00 l  | .500 lb ai/A post |      |      | 0.0 e   | 7.25 b  | 70.00 bc | 76.3 bc | 76.3 b  | 68.8 b  |
| 8 2,4-D ester | 4.00 l  | .250 lb ai/A post |      |      | 0.3 de  | 6.00 c  | 57.50 c  | 67.5 c  | 40.0 c  | 65.0 bc |
| 9 resource    | .86 l   | .026 lb ai/A post |      |      | 1.8 ab  | 7.00 bc | 68.75 bc | 75.0 bc | 85.0 ab | 90.0 a  |
| 9 accent      | 75 d    | .031 lb ai/A post |      |      |         |         |          |         |         |         |
| 9 coc         | l       | .500 % v/v post   |      |      |         |         |          |         |         |         |
| 10 atrazine   | 4.00 l  | .500 lb ai/A post |      |      | 0.8 b-e | 7.00 bc | 65.00 bc | 75.0 bc | 82.5 ab | 51.3 c  |
| 10 coc        | l       | .500 % v/v post   |      |      |         |         |          |         |         |         |

|                |         |         |         |         |         |         |
|----------------|---------|---------|---------|---------|---------|---------|
| LSD (.05) =    | 1.1     | 1.05    | 17.27   | 10.3    | 11.8    | 14.2    |
| Standard Dev.= | .727121 | .726961 | 11.8993 | 7.09558 | 8.16497 | 9.80245 |
| CV =           | 83.10   | 11.52   | 20.49   | 10.49   | 11.62   | 14.03   |

|                   |        |        |        |        |        |        |
|-------------------|--------|--------|--------|--------|--------|--------|
| Block F           | 2.191  | 4.679  | 4.220  | 1.138  | 3.313  | 2.296  |
| Block Prob(F)     | 0.1122 | 0.0093 | 0.0143 | 0.3515 | 0.0349 | 0.1003 |
| Treatment F       | 3.914  | 49.547 | 22.887 | 58.633 | 60.308 | 37.371 |
| Treatment Prob(F) | 0.0028 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

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

10-17-93 (RESOURCE.DAT)

SUMMARY

VPI &amp; SU

## RESOURCE POST-EMERGENCE CORN TREATMENTS

Project Code:RESOURCE

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

|                  |        |         |         |         |         |
|------------------|--------|---------|---------|---------|---------|
| Weed/Crop Code   | PANDI  | OVERALL | AMBTR   | IPOHE   | PANDI   |
| Rating Data Type | VISUAL | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-100  | 0-10    | 0-100   | 0-100   | 0-100   |
| Rating Date      | 6-9-93 | 7-30-93 | 7-30-93 | 7-30-93 | 7-30-93 |

| Trt Treatment     | Form Fm | Rate              | Grow | Appl |         |         |         |         |         |
|-------------------|---------|-------------------|------|------|---------|---------|---------|---------|---------|
| No Name           | Amt Ds  | Rate Unit         | Stg  | Code |         |         |         |         |         |
| 1 control         |         |                   |      |      | 0.0 c   | 0.00 c  | 0.0 d   | 0.0 f   | 0.0 c   |
| 2 resource        | .86 l   | .026 lb ai/A post |      |      | 45.0 b  | 7.88 a  | 76.3 ab | 86.3 a  | 67.5 a  |
| 2 atrazine        | 4.00 l  | .500 lb ai/A post |      |      |         |         |         |         |         |
| 2 coc             | l       | .500 % v/v post   |      |      |         |         |         |         |         |
| 3 resource        | .86 l   | .026 lb ai/A post |      |      | 52.5 ab | 7.88 a  | 87.5 a  | 87.5 a  | 71.3 a  |
| 3 banvel          | 4.00 l  | .500 lb ai/A post |      |      |         |         |         |         |         |
| 4 resource        | .86 l   | .026 lb ai/A post |      |      | 42.5 b  | 8.13 a  | 88.8 a  | 90.0 a  | 32.5 b  |
| 4 2,4-D ester     | 4.00 l  | .250 lb ai/A post |      |      |         |         |         |         |         |
| 5 resource        | 0.86 l  | .026 lb ai/A post |      |      | 65.0 a  | 7.75 a  | 73.8 ab | 88.8 a  | 80.0 a  |
| 5 accent          | 75 d    | .031 lb ai/A post |      |      |         |         |         |         |         |
| 5 coc             | l       | .500 % v/v post   |      |      |         |         |         |         |         |
| 6 resource        | .86 l   | .026 lb ai/A post |      |      | 0.0 c   | 2.25 b  | 32.5 c  | 47.5 e  | 32.5 b  |
| 7 banvel          | 4.00 l  | .500 lb ai/A post |      |      | 5.0 c   | 7.75 a  | 77.5 ab | 72.5 bc | 0.0 c   |
| 8 2,4-D ester     | 4.00 l  | .250 lb ai/A post |      |      | 0.0 c   | 6.75 a  | 70.0 b  | 66.3 cd | 0.0 c   |
| 9 resource        | .86 l   | .026 lb ai/A post |      |      | 63.8 a  | 6.38 a  | 66.3 b  | 81.3 ab | 82.5 a  |
| 9 accent          | 75 d    | .031 lb ai/A post |      |      |         |         |         |         |         |
| 9 coc             | l       | .500 % v/v post   |      |      |         |         |         |         |         |
| 10 atrazine       | 4.00 l  | .500 lb ai/A post |      |      | 38.8 b  | 6.50 a  | 67.5 b  | 55.0 de | 32.5 b  |
| 10 coc            | l       | .500 % v/v post   |      |      |         |         |         |         |         |
| LSD (.05) =       |         |                   |      |      | 16.0    | 1.70    | 14.8    | 12.7    | 15.5    |
| Standard Dev.=    |         |                   |      |      | 11.0387 | 1.17023 | 10.2289 | 8.76652 | 10.7098 |
| CV =              |         |                   |      |      | 35.32   | 19.11   | 15.98   | 12.99   | 26.86   |
| Block F           |         |                   |      |      | 3.413   | 3.718   | 0.637   | 0.325   | 0.572   |
| Block Prob(F)     |         |                   |      |      | 0.0316  | 0.0233  | 0.5976  | 0.8070  | 0.6382  |
| Treatment F       |         |                   |      |      | 24.210  | 22.241  | 28.604  | 40.699  | 39.166  |
| Treatment Prob(F) |         |                   |      |      | 0.0001  | 0.0001  | 0.0001  | 0.0001  | 0.0001  |

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

- End of Report -

10-24-93 (CGA15200.DD)

SITE DESC.

VPI &amp; SU

CGA 152005 POST CORN

Project Code:CGA93POST CORN

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:DEPT. PLANT PATH., PHYS.,

## Experimental Management

Date Planted 5-11-93

Variety PIONEER 5143

Row Width 30"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance SPRING PLOWED,DISKED AND ROTO-TILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand

% Silt

% Clay

Soil Series ROSS

% OM

2.5

pH

6.3

CEC

## Application Information

A

B

C

D

E

F

Date Treated

6-1-93

Time Treated

2-3 PM

Cloud Cover

0%

Air Temperature

75 F

Relative Humidity

60%

Wind Speed/Direction

3-5 SW

Soil Temperature

Soil/Leaf Surface Moisture MOIST

Soil Subsurface Moisture MOIST

Soil Tilth

GOOD

Crop Stage

POST

Pest Name, Stage &amp; Density

ZEAMX 4 LEAF

4"

AMBTR 4 LEAF

2-5"

IPOHE 1-2 LEAF

1-1.5"

PANDI

1.0"

## Application Equipment

|    | Sprayer<br>Type | Speed<br>MPH | Nozzle<br>Type | Nozzle<br>Size | Nozzle<br>Height | Nozzle<br>Spacing | Boom<br>Width | GPA  | Carrier | PSI |
|----|-----------------|--------------|----------------|----------------|------------------|-------------------|---------------|------|---------|-----|
| 1. | CO/2 BACKPACK   | 3.1          | FLAT FAN       | 8003 LP        | 20"              | 18"               | 72"           | 22.5 | WATER   | 34  |
| 2. |                 |              |                |                |                  |                   |               |      |         |     |
| 3. |                 |              |                |                |                  |                   |               |      |         |     |
| 4. |                 |              |                |                |                  |                   |               |      |         |     |
| 5. |                 |              |                |                |                  |                   |               |      |         |     |
| 6. |                 |              |                |                |                  |                   |               |      |         |     |

## Comments

All treatments included X-77 at 1/4%. 6-1-93 SIDSP 2-3 Leaf 1-2"

VPI & SU  
CGA 152005 POST CORN

Project Code:CGA93POST CORN

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:DEPT. PLANT PATH., PHYS.,

All rates are specified as lb ai/A

| Weed/Crop Code   | INJURY | INJURY  | OVERALL | AMBTR   | IPOHE   | SIDSP   | PANDI   |
|------------------|--------|---------|---------|---------|---------|---------|---------|
| Rating Data Type | VISUAL | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0 - 10 | 0 - 10  | 0-100   | 0-100   | 0-100   | 0-100   | 0-100   |
| Rating Date      | 6-7-93 | 6-10-93 | 6-10-93 | 6-10-93 | 6-10-93 | 6-10-93 | 6-10-93 |

| Trt Treatment     | Form Fm     | Grow | Appl |         |         |         |         |         |         |        |  |
|-------------------|-------------|------|------|---------|---------|---------|---------|---------|---------|--------|--|
| No Name           | Amt Ds Rate | Stg  | Code |         |         |         |         |         |         |        |  |
| 1 CGA 152005      | 5 D .028    | POST |      | 1.3 abc | 0.0 a   | 6.5 ab  | 67.5 a  | 68.8 a  | 63.8 b  | 0.0 a  |  |
| 2 CGA 152005      | 5 D .038    | POST |      | 1.5 ab  | 0.0 a   | 7.3 ab  | 72.5 a  | 75.0 a  | 66.3 ab | 0.0 a  |  |
| 3 CGA 152005      | 5 D .028    | POST |      | 0.0 d   | 0.3 a   | 7.3 ab  | 75.0 a  | 77.5 a  | 65.0 ab | 0.0 a  |  |
| 3 2,4-D           | 4.00 L .250 | POST |      |         |         |         |         |         |         |        |  |
| 4 CGA 152005      | 5 D .038    | POST |      | 0.5 cd  | 0.0 a   | 6.3 b   | 71.3 a  | 75.0 a  | 68.8 ab | 0.0 a  |  |
| 4 2,4-D           | 4.00 L .250 | POST |      |         |         |         |         |         |         |        |  |
| 5 CGA 152005      | 5 D .028    | POST |      | 0.8 bcd | 0.0 a   | 7.8 a   | 80.0 a  | 78.8 a  | 73.8 a  | 0.0 a  |  |
| 5 BANVEL          | 4.00 L .125 | POST |      |         |         |         |         |         |         |        |  |
| 6 CGA 152005      | 5 D .038    | POST |      | 2.0 a   | 0.3 a   | 7.5 ab  | 71.3 a  | 77.5 a  | 68.8 ab | 0.0 a  |  |
| 6 BANVEL          | 4.00 L .125 | POST |      |         |         |         |         |         |         |        |  |
| 7 CONTROL         |             |      |      | 0.0 d   | 0.0 a   | 0.0 c   | 0.0 b   | 0.0 b   | 0.0 c   | 0.0 a  |  |
| LSD (.05) =       |             |      |      | 0.8     | 0.4     | 1.2     | 15.3    | 9.1     | 8.1     | 0      |  |
| Standard Dev.=    |             |      |      | .507875 | .243976 | .826160 | 10.2885 | 6.09938 | 5.48266 | 0      |  |
| CV =              |             |      |      | 59.25   | 341.57  | 13.61   | 16.46   | 9.44    | 9.45    | 0      |  |
| Block F           |             |      |      | 1.108   | 2.400   | 0.349   | 0.101   | 2.400   | 3.356   | 0.000  |  |
| Block Prob(F)     |             |      |      | 0.3718  | 0.1016  | 0.7904  | 0.9583  | 0.1016  | 0.0419  | 1.0000 |  |
| Treatment F       |             |      |      | 9.000   | 1.000   | 43.674  | 29.266  | 88.520  | 88.564  | 0.000  |  |
| Treatment Prob(F) |             |      |      | 0.0001  | 0.4552  | 0.0001  | 0.0001  | 0.0001  | 0.0001  | 1.0000 |  |

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

VPI & SU  
CGA 152005 POST CORN

Project Code:CGA93POST CORN

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:DEPT. PLANT PATH., PHYS.,

All rates are specified as lb ai/A

|                  |         |         |         |         |         |
|------------------|---------|---------|---------|---------|---------|
| Weed/Crop Code   | INJURY  | OVERALL | AMBTR   | IPOHE   | SIDSP   |
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0 - 10  | 0 - 10  | 0-100   | 0-100   | 0-100   |
| Rating Date      | 7-30-93 | 7-30-93 | 7-30-93 | 7-30-93 | 7-30-93 |

| Trt Treatment     | Form Fm     | Grow | Appl |        |         |         |         |         |
|-------------------|-------------|------|------|--------|---------|---------|---------|---------|
| No Name           | Amt Ds Rate | Stg  | Code |        |         |         |         |         |
| 1 CGA 152005      | 5 D .028    | POST |      | 0.0 a  | 6.0 b   | 72.5 b  | 86.3 b  | 52.5 b  |
| 2 CGA 152005      | 5 D .038    | POST |      | 0.0 a  | 7.3 ab  | 78.8 ab | 90.0 ab | 82.5 a  |
| 3 CGA 152005      | 5 D .028    | POST |      | 0.0 a  | 6.8 ab  | 87.5 a  | 95.0 ab | 72.5 ab |
| 3 2,4-D           | 4.00 L .250 | POST |      |        |         |         |         |         |
| 4 CGA 152005      | 5 D .038    | POST |      | 0.0 a  | 7.3 ab  | 86.3 ab | 96.3 ab | 80.0 a  |
| 4 2,4-D           | 4.00 L .250 | POST |      |        |         |         |         |         |
| 5 CGA 152005      | 5 D .028    | POST |      | 0.0 a  | 7.3 ab  | 87.5 a  | 98.8 a  | 62.5 ab |
| 5 BANVEL          | 4.00 L .125 | POST |      |        |         |         |         |         |
| 6 CGA 152005      | 5 D .038    | POST |      | 0.0 a  | 7.8 a   | 82.5 ab | 95.0 ab | 72.5 ab |
| 6 BANVEL          | 4.00 L .125 | POST |      |        |         |         |         |         |
| 7 CONTROL         |             |      |      | 0.0 a  | 0.0 c   | 0.0 c   | 0.0 c   | 0.0 c   |
| LSD (.05) =       |             |      |      | 0      | 1.5     | 13.1    | 9.4     | 19.7    |
| Standard Dev.=    |             |      |      | 0      | 1.03701 | 8.82479 | 6.31514 | 13.2437 |
| cV =              |             |      |      | 0      | 17.18   | 12.48   | 7.88    | 21.94   |
| Block F           |             |      |      | 0.000  | 0.122   | 0.581   | 1.157   | 0.604   |
| Block Prob(F)     |             |      |      | 1.0000 | 0.9461  | 0.6351  | 0.3535  | 0.6208  |
| Treatment F       |             |      |      | 0.000  | 27.465  | 51.466  | 127.119 | 18.550  |
| Treatment Prob(F) |             |      |      | 1.0000 | 0.0001  | 0.0001  | 0.0001  | 0.0001  |

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

- End of Report -

10-24-93 (SENPOCOR.DD)

SITE DESC.

Project Code:SENPOCOR  
Cooperator :E. S. HAGOOD

VPI & SU  
SENCOR POST CORN  
Location :WHITETHORNE, VA.  
By:Dept. Plant Path., Phys.,

### Experimental Management

Date Planted 5-11-93 Variety PIONEER 3154 Row Width 30"  
Design RCB No. Reps. 4 Plot Size 6 X 25 FEET  
Field Preparation and Plot Maintenance SPRING PLOWED, DISKED AND ROTO-TILLED

### Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand

% Silt

% Clay

Soil Series ROSS

% OM

2.5

pH

6.3

CEC

### Application Information

A

B

C

D

E

F

Date Treated 6-1-93  
Time Treated 11-12AM  
Cloud Cover 0%  
Air Temperature 65 F  
Relative Humidity 55%  
Wind Speed/Direction 5-7 NW  
Soil Temperature  
Soil/Leaf Surface Moisture MOIST  
Soil Subsurface Moisture MOIST  
Soil Tilth GOOD  
Crop Stage POST  
Pest Name, Stage & Density  
ZEAMX 4 LEAF 4"  
AMBTR 4 LEAF 2-5"  
IPOHE 2-3 LEAF 1-2"  
CHEAL 3-5 LEAF 1-2.5"

### Application Equipment

|    | Sprayer<br>Type | Speed<br>MPH | Nozzle<br>Type | Nozzle<br>Size | Nozzle<br>Height | Nozzle<br>Spacing | Boom<br>Width | GPA  | Carrier | PSI |
|----|-----------------|--------------|----------------|----------------|------------------|-------------------|---------------|------|---------|-----|
| 1. | CO/2 BACKPACK   | 3.1          | FLAT FAN       | 8003 LP        | 20"              | 18"               | 72"           | 22.5 | WATER   | 20  |
| 2. |                 |              |                |                |                  |                   |               |      |         |     |
| 3. |                 |              |                |                |                  |                   |               |      |         |     |
| 4. |                 |              |                |                |                  |                   |               |      |         |     |
| 5. |                 |              |                |                |                  |                   |               |      |         |     |
| 6. |                 |              |                |                |                  |                   |               |      |         |     |

Comments

VPI & SU  
SENCOR POST CORNProject Code: SENPOCOR  
Cooperator : E. S. HAGOODLocation : WHITETHORNE, VA.  
By: Dept. Plant Path., Phys.,

| Weed/Crop Code   | INJURY | INJURY | OVERALL | AMBTR  | IPOHE  | CHEAL  |
|------------------|--------|--------|---------|--------|--------|--------|
| Rating Data Type | VISUAL | VISUAL | VISUAL  | VISUAL | VISUAL | VISUAL |
| Rating Unit      | 0-10   | 0-10   | 0-100   | 0-100  | 0-100  | 0-100  |
| Rating Date      | 6-7-93 | 6-9-93 | 6-9-93  | 6-9-93 | 6-9-93 | 6-9-93 |

| Trt Treatment | Form Fm     | Rate    | Grow | Appl |         |        |         |          |          |          |
|---------------|-------------|---------|------|------|---------|--------|---------|----------|----------|----------|
| No Name       | Amt Ds Rate | Unit    | Stg  | Code |         |        |         |          |          |          |
| 1 sencor      | 75 d .094   | lb ai/A | post |      | 0.5 fgh | 0.0 b  | 2.3 g   | 20.0 i   | 17.5 g   | 0.0 h    |
| 2 sencor      | 75 d .094   | lb ai/A | post |      | 2.8 ab  | 0.5 ab | 8.8 ab  | 90.0 abc | 90.0 ab  | 91.3 ab  |
| 2 2,4-D ester | 3.80 l .250 | lb ai/A | post |      |         |        |         |          |          |          |
| 3 sencor      | 75 d .094   | lb ai/A | post |      | 0.5 fgh | 0.0 b  | 8.0 a-d | 85.0 a-d | 85.0 abc | 78.8 bcd |
| 3 2,4-D amine | 4.00 l .250 | lb ai/A | post |      |         |        |         |          |          |          |
| 4 sencor      | 75 d .094   | lb ai/A | post |      | 0.8 fgh | 0.0 b  | 7.8 a-d | 80.0 b-e | 81.3 bcd | 83.8 a-d |
| 4 banvel      | 4.00 l .250 | lb ai/A | post |      |         |        |         |          |          |          |
| 5 sencor      | 75 d .094   | lb ai/A | post |      | 1.8 cde | 0.3 b  | 7.3 cd  | 72.5 def | 66.3 de  | 52.5 fg  |
| 5 coc         | l .500      | % v/v   | post |      |         |        |         |          |          |          |
| 5 basagran    | 4.00 l .500 | lb ai/A | post |      |         |        |         |          |          |          |
| 6 sencor      | 75 d .094   | lb ai/A | post |      | 2.0 bcd | 0.0 b  | 9.0 a   | 94.5 a   | 97.5 a   | 97.5 a   |
| 6 buctril     | 2.00 l .250 | lb ai/A | post |      |         |        |         |          |          |          |
| 7 2,4-D ester | 3.80 l .250 | lb ai/A | post |      | 0.3 gh  | 0.3 b  | 6.8 de  | 63.8 fg  | 70.0 cde | 71.3 cde |
| 8 2,4-D amine | 4.00 l .250 | lb ai/A | post |      | 0.8 fgh | 0.0 b  | 7.5 bcd | 75.0 def | 78.8 b-e | 58.8 ef  |
| 9 banvel      | 4.00 l .250 | lb ai/A | post |      | 0.5 fgh | 0.3 b  | 7.0 cd  | 73.8 def | 66.3 de  | 71.3 cde |
| 10 basagran   | 4.00 l .500 | lb ai/A | post |      | 0.8 fgh | 0.0 b  | 7.0 cd  | 75.0 def | 67.5 de  | 71.3 cde |
| 10 coc        | l 1.00      | % v/v   | post |      |         |        |         |          |          |          |
| 11 buctril    | 2.00 l .250 | lb ai/A | post |      | 1.0 efg | 0.5 ab | 8.3 abc | 91.3 ab  | 93.8 ab  | 92.5 ab  |
| 12 beacon     | 75 d .018   | lb ai/A | post |      | 1.8 cde | 0.3 b  | 7.5 bcd | 72.5 def | 63.8 e   | 76.3 b-e |
| 12 X-77       | l .250      | % v/v   | post |      |         |        |         |          |          |          |
| 13 beacon     | 75 d .036   | lb ai/A | post |      | 1.3 def | 0.3 b  | 7.3 cd  | 70.0 ef  | 73.8 cde | 67.5 def |
| 13 X-77       | l .250      | % v/v   | post |      |         |        |         |          |          |          |
| 14 accent     | 75 d .031   | lb ai/A | post |      | 1.0 efg | 0.0 b  | 1.8 g   | 20.0 i   | 40.0 f   | 40.0 g   |
| 14 X-77       | l .250      | % v/v   | post |      |         |        |         |          |          |          |
| 15 beacon     | 75 d .018   | lb ai/A | post |      | 2.5 abc | 1.0 a  | 8.0 a-d | 77.5 c-f | 78.8 b-e | 90.0 abc |
| 15 sencor     | 75 d .094   | lb ai/A | post |      |         |        |         |          |          |          |
| 15 X-77       | l .250      | % v/v   | post |      |         |        |         |          |          |          |
| 16 beacon     | 75 d .036   | lb ai/A | post |      | 2.8 ab  | 0.5 ab | 5.5 ef  | 53.8 gh  | 71.3 cde | 78.8 bcd |
| 16 sencor     | 75 d .094   | lb ai/A | post |      |         |        |         |          |          |          |
| 16 X-77       | l .250      | % v/v   | post |      |         |        |         |          |          |          |

10-18-93 (SENPOCOR.DAT)

## SUMMARY

VPI & SU  
SENCOR POST CORNProject Code: SENPOCOR  
Cooperator : E. S. HAGOODLocation : WHITETHORNE, VA.  
By: Dept. Plant Path., Phys.,

|                  |         |        |        |
|------------------|---------|--------|--------|
| Weed/Crop Code   | OVERALL | AMBTR  | IPOHE  |
| Rating Data Type | VISUAL  | VISUAL | VISUAL |
| Rating Unit      | 0-10    | 0-100  | 0-100  |
| Rating Date      | 9-2-93  | 9-2-93 | 9-2-93 |

| Trt | Treatment   | Form | Fm | Rate | Grow    | Appl |      |         |          |
|-----|-------------|------|----|------|---------|------|------|---------|----------|
| No  | Name        | Amt  | Ds | Rate | Unit    | Stg  | Code |         |          |
| 1   | sencor      | 75   | d  | .094 | lb ai/A | post |      | 0.0 f   | 0.0 d    |
| 2   | sencor      | 75   | d  | .094 | lb ai/A | post |      | 7.3 ab  | 91.3 ab  |
| 2   | 2,4-D ester | 3.80 | l  | .250 | lb ai/A | post |      |         | 93.8 ab  |
| 3   | sencor      | 75   | d  | .094 | lb ai/A | post |      | 4.5 cde | 82.5 ab  |
| 3   | 2,4-D amine | 4.00 | l  | .250 | lb ai/A | post |      |         | 91.3 abc |
| 4   | sencor      | 75   | d  | .094 | lb ai/A | post |      | 8.0 a   | 95.0 ab  |
| 4   | banvel      | 4.00 | l  | .250 | lb ai/A | post |      |         | 95.0 ab  |
| 5   | sencor      | 75   | d  | .094 | lb ai/A | post |      | 3.8 e   | 35.0 c   |
| 5   | coc         |      | l  | .500 | % v/v   | post |      |         | 50.0 d   |
| 5   | basagran    | 4.00 | l  | .500 | lb ai/A | post |      |         |          |
| 6   | sencor      | 75   | d  | .094 | lb ai/A | post |      | 6.8 ab  | 91.3 ab  |
| 6   | buctril     | 2.00 | l  | .250 | lb ai/A | post |      |         | 93.8 ab  |
| 7   | 2,4-D ester | 3.80 | l  | .250 | lb ai/A | post |      | 7.0 ab  | 97.5 a   |
| 8   | 2,4-D amine | 4.00 | l  | .250 | lb ai/A | post |      | 5.5 bcd | 82.5 ab  |
| 9   | banvel      | 4.00 | l  | .250 | lb ai/A | post |      | 5.5 bcd | 81.3 ab  |
| 10  | basagran    | 4.00 | l  | .500 | lb ai/A | post |      | 3.0 e   | 31.3 c   |
| 10  | coc         |      | l  | 1.00 | % v/v   | post |      |         | 57.5 d   |
| 11  | buctril     | 2.00 | l  | .250 | lb ai/A | post |      | 6.0 bc  | 83.8 ab  |
| 12  | beacon      | 75   | d  | .018 | lb ai/A | post |      | 6.8 ab  | 81.3 ab  |
| 12  | X-77        |      | l  | .250 | % v/v   | post |      |         | 81.3 abc |
| 13  | beacon      | 75   | d  | .036 | lb ai/A | post |      | 7.0 ab  | 82.5 ab  |
| 13  | X-77        |      | l  | .250 | % v/v   | post |      |         | 86.3 abc |
| 14  | accent      | 75   | d  | .031 | lb ai/A | post |      | 3.5 e   | 0.0 d    |
| 14  | X-77        |      | l  | .250 | % v/v   | post |      |         | 77.5 bc  |
| 15  | beacon      | 75   | d  | .018 | lb ai/A | post |      | 6.5 ab  | 76.3 b   |
| 15  | sencor      | 75   | d  | .094 | lb ai/A | post |      |         | 87.5 abc |
| 15  | X-77        |      | l  | .250 | % v/v   | post |      |         |          |
| 16  | beacon      | 75   | d  | .036 | lb ai/A | post |      | 6.5 ab  | 91.3 ab  |
| 16  | sencor      | 75   | d  | .094 | lb ai/A | post |      |         | 88.8 abc |
| 16  | X-77        |      | l  | .250 | % v/v   | post |      |         |          |

10-18-93 (SENPOCOR.DAT)

## SUMMARY

VPI & SU  
SENCOR POST CORNProject Code:SENPOCOR  
Cooperator :E. S. HAGOODLocation :WHITETHORNE, VA.  
By:Dept. Plant Path., Phys.,

|                  |        |        |         |        |        |        |
|------------------|--------|--------|---------|--------|--------|--------|
| Weed/Crop Code   | INJURY | INJURY | OVERALL | AMBTR  | IPOHE  | CHEAL  |
| Rating Data Type | VISUAL | VISUAL | VISUAL  | VISUAL | VISUAL | VISUAL |
| Rating Unit      | 0-10   | 0-10   | 0-100   | 0-100  | 0-100  | 0-100  |
| Rating Date      | 6-7-93 | 6-9-93 | 6-9-93  | 6-9-93 | 6-9-93 | 6-9-93 |

| Trt Treatment     | Form Fm | Rate         | Grow | Appl |         |         |         |         |         |          |
|-------------------|---------|--------------|------|------|---------|---------|---------|---------|---------|----------|
| No Name           | Amt Ds  | Rate Unit    | Stg  | Code |         |         |         |         |         |          |
| 17 accent         | 75 d    | .031 lb ai/A | post |      | 3.0 a   | 0.5 ab  | 4.3 f   | 42.5 h  | 62.5 e  | 70.0 def |
| 17 sencor         | 75 d    | .094 lb ai/A | post |      |         |         |         |         |         |          |
| 17 X-77           | l       | .250 % v/v   | post |      |         |         |         |         |         |          |
| 18 control        |         |              |      |      | 0.0 h   | 0.0 b   | 0.0 h   | 0.0 j   | 0.0 h   | 0.0 h    |
| LSD (.05) =       |         |              |      |      | 0.8     | 0.6     | 1.3     | 12.1    | 14.5    | 16.5     |
| Standard Dev.=    |         |              |      |      | .592942 | .418461 | .886077 | 8.48400 | 10.1550 | 11.5573  |
| CV =              |         |              |      |      | 44.94   | 177.23  | 14.02   | 13.20   | 15.19   | 17.46    |
| Block F           |         |              |      |      | 0.777   | 1.560   | 1.574   | 1.793   | 1.162   | 0.266    |
| Block Prob(F)     |         |              |      |      | 0.5123  | 0.2105  | 0.2069  | 0.1603  | 0.3335  | 0.8496   |
| Treatment F       |         |              |      |      | 10.190  | 1.759   | 33.708  | 40.142  | 24.529  | 23.563   |
| Treatment Prob(F) |         |              |      |      | 0.0001  | 0.0616  | 0.0001  | 0.0001  | 0.0001  | 0.0001   |

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

10-18-93 (SENPOCOR.DAT)

SUMMARY

VPI & SU  
SENCOR POST CORN

Project Code:SENPOCOR  
Cooperator :E. S. HAGOOD

Location :WHITETHORNE, VA.  
By:Dept. Plant Path., Phys.,

|                  |         |        |        |
|------------------|---------|--------|--------|
| Weed/Crop Code   | OVERALL | AMBTR  | IPOHE  |
| Rating Data Type | VISUAL  | VISUAL | VISUAL |
| Rating Unit      | 0-10    | 0-100  | 0-100  |
| Rating Date      | 9-2-93  | 9-2-93 | 9-2-93 |

| Trt Treatment     | Form Fm | Rate         | Grow | Appl |         |         |         |
|-------------------|---------|--------------|------|------|---------|---------|---------|
| No Name           | Amt Ds  | Rate Unit    | Stg  | Code |         |         |         |
| 17 accent         | 75 d    | .031 lb ai/A | post |      | 4.0 de  | 20.0 c  | 75.0 c  |
| 17 sencor         | 75 d    | .094 lb ai/A | post |      |         |         |         |
| 17 X-77           | l       | .250 % v/v   | post |      |         |         |         |
| 18 control        |         |              |      |      | 0.0 f   | 0.0 d   | 0.0 e   |
| LSD (.05) =       |         |              |      |      | 1.6     | 16.6    | 15.2    |
| Standard Dev.=    |         |              |      |      | 1.08515 | 11.5812 | 10.6604 |
| CV =              |         |              |      |      | 21.35   | 18.57   | 14.32   |
| Block F           |         |              |      |      | 1.400   | 0.894   | 1.075   |
| Block Prob(F)     |         |              |      |      | 0.2536  | 0.4507  | 0.3678  |
| Treatment F       |         |              |      |      | 18.608  | 39.581  | 31.324  |
| Treatment Prob(F) |         |              |      |      | 0.0001  | 0.0001  | 0.0001  |

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

- End of Report -

10-24-93 (BRDUNTCO.DD)

SITE DESC.

VPI &amp; SU

BROADSTRIKE-DUAL NO-TILL-CORN

Project Code:NA-93-R3-C007

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:DEPT. PLANT PATH., PHYS.,

## Experimental Management

Date Planted 5-11-93

Variety PIONEER 3154

Row Width 30"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance NO-TILL INTO SOYBEAN STUBBLE

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand

% Silt

% Clay

Soil Series ROSS

% OM

2.5

pH

6.3

CEC

## Application Information

A

B

C

D

E

F

Date Treated

5-11-93

Time Treated

1:00 PM

Cloud Cover

20%

Air Temperature

83 F

Relative Humidity

80%

Wind Speed/Direction

3-5 SW

Soil Temperature

Soil/Leaf Surface Moisture

DRY

Soil Subsurface Moisture

MOIST

Soil Tilth

FAIR

Crop Stage

PRE

Pest Name, Stage &amp; Density

AMBTR 4-6 LEAF

2-4"

PANDI 2 LEAF

1/4-1/2"

CYPES 4-5 LEAF

3-5"

## Application Equipment

|    | Sprayer<br>Type | Speed<br>MPH | Nozzle<br>Type | Nozzle<br>Size | Nozzle<br>Height | Nozzle<br>Spacing | Boom<br>Width | GPA  | Carrier | PSI |
|----|-----------------|--------------|----------------|----------------|------------------|-------------------|---------------|------|---------|-----|
| 1. | CO/2 BACKPACK   | 3.1          | FLAT FAN       | 8003           | 20"              | 18"               | 72"           | 22.5 | WATER   | 32  |
| 2. |                 |              |                |                |                  |                   |               |      |         |     |
| 3. |                 |              |                |                |                  |                   |               |      |         |     |
| 4. |                 |              |                |                |                  |                   |               |      |         |     |
| 5. |                 |              |                |                |                  |                   |               |      |         |     |
| 6. |                 |              |                |                |                  |                   |               |      |         |     |

## Comments

1.0 quart of roundup was applied with all treatments. Scattered dock (RUMCR) dandelion (TAROF) and chickweed (STEME) were present.

10-18-93 (BRDUNTCO.DAT)

## SUMMARY

VPI &amp; SU

BROADSTRIKE-DUAL NO-TILL-CORN

Project Code:NA-93-R3-C007

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:DEPT. PLANT PATH., PHYS.,

All rates are specified as lb ai/A

| Weed/Crop Code   | INJURY | OVERALL | AMBTR  | INJURY  | OVERALL | AMBTR   | CYPES   |
|------------------|--------|---------|--------|---------|---------|---------|---------|
| Rating Data Type | VISUAL | VISUAL  | VISUAL | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0 - 10 | 0 - 10  | 0-100  | 0 - 10  | 0 - 10  | 0-100   | 0-100   |
| Rating Date      | 6-7-93 | 6-7-93  | 6-7-93 | 6-11-93 | 6-11-93 | 6-11-93 | 6-11-93 |

| Trt Treatment     | Form Fm     | Grow | Appl |         |         |         |        |         |         |         |
|-------------------|-------------|------|------|---------|---------|---------|--------|---------|---------|---------|
| No Name           | Amt Ds Rate | Stg  | Code |         |         |         |        |         |         |         |
| 1 NAF-2           | 7.66 L 1.68 | PRE  |      | 0.0 a   | 9.3 a   | 98.8 a  | 0.0 a  | 8.8 bc  | 86.3 b  | 93.8 a  |
| 2 NAF-2           | 7.66 L 1.92 | PRE  |      | 0.0 a   | 9.0 a   | 96.3 ab | 0.0 a  | 8.3 c   | 86.3 b  | 88.8 a  |
| 3 NAF-2           | 7.66 L 2.15 | PRE  |      | 0.0 a   | 8.5 a   | 92.5 b  | 0.0 a  | 8.0 c   | 87.5 b  | 87.5 a  |
| 4 NAF-2           | 7.66 L 2.39 | PRE  |      | 0.3 a   | 9.5 a   | 97.5 ab | 0.0 a  | 8.5 c   | 83.8 b  | 82.5 a  |
| 5 NAF-2           | 7.66 L 1.68 | PRE  |      | 0.0 a   | 9.0 a   | 100.0 a | 0.0 a  | 10.0 a  | 98.8 a  | 93.8 a  |
| 5 ATRAZINE        | 4.00 L 1.00 | PRE  |      |         |         |         |        |         |         |         |
| 6 NAF-72          | 86 D .215   | PRE  |      | 0.0 a   | 9.3 a   | 100.0 a | 0.0 a  | 9.5 ab  | 98.8 a  | 90.0 a  |
| 6 DUAL            | 8.00 L 1.50 | PRE  |      |         |         |         |        |         |         |         |
| 6 ATRAZINE        | 4.00 L 1.00 | PRE  |      |         |         |         |        |         |         |         |
| 7 BICEP           | 6.00 L 3.50 | PRE  |      | 0.0 a   | 9.5 a   | 97.0 ab | 0.0 a  | 8.8 bc  | 90.0 ab | 91.3 a  |
| 8 CONTROL         |             |      |      | 0.0 a   | 0.0 b   | 0.0 c   | 0.0 a  | 0.0 d   | 0.0 c   | 0.0 b   |
| LSD (.05) =       |             |      |      | 0.3     | 0.9     | 5.6     | 0      | 0.8     | 9.2     | 11.3    |
| Standard Dev.=    |             |      |      | .176777 | .607493 | 3.78437 | 0      | .562996 | 6.28265 | 7.66680 |
| CV =              |             |      |      | 565.69  | 7.59    | 4.44    | 0      | 7.29    | 7.96    | 9.77    |
| Block F           |             |      |      | 1.000   | 0.677   | 3.602   | 0.000  | 1.676   | 2.448   | 2.499   |
| Block Prob(F)     |             |      |      | 0.4123  | 0.5756  | 0.0305  | 1.0000 | 0.2026  | 0.0920  | 0.0875  |
| Treatment F       |             |      |      | 1.000   | 114.387 | 333.032 | 0.000  | 128.099 | 106.289 | 69.258  |
| Treatment Prob(F) |             |      |      | 0.4586  | 0.0001  | 0.0001  | 1.0000 | 0.0001  | 0.0001  | 0.0001  |

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

10-18-93 (BRDUNTCO.DAT)

SUMMARY

VPI &amp; SU

BROADSTRIKE-DUAL NO-TILL-CORN

Project Code:NA-93-R3-C007

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:DEPT. PLANT PATH., PHYS.,

All rates are specified as lb ai/A

|                  |         |         |         |         |
|------------------|---------|---------|---------|---------|
| Weed/Crop Code   | PANDI   | OVERALL | AMBTR   | PANDI   |
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-100   | 0 - 10  | 0-100   | 0-100   |
| Rating Date      | 6-11-93 | 7-30-93 | 7-30-93 | 7-30-93 |

| Trt Treatment     | Form Fm     | Grow | Appl |         |         |         |         |
|-------------------|-------------|------|------|---------|---------|---------|---------|
| No Name           | Amt Ds Rate | Stg  | Code |         |         |         |         |
| 1 NAF-2           | 7.66 L 1.68 | PRE  |      | 97.5 ab | 5.8 b   | 55.0 b  | 75.0 bc |
| 2 NAF-2           | 7.66 L 1.92 | PRE  |      | 98.8 ab | 6.0 b   | 57.5 b  | 75.0 bc |
| 3 NAF-2           | 7.66 L 2.15 | PRE  |      | 96.3 ab | 6.0 b   | 52.5 b  | 67.5 c  |
| 4 NAF-2           | 7.66 L 2.39 | PRE  |      | 92.5 b  | 6.5 b   | 67.5 b  | 68.8 c  |
| 5 NAF-2           | 7.66 L 1.68 | PRE  |      | 100.0 a | 8.8 a   | 87.5 a  | 93.8 a  |
| 5 ATRAZINE        | 4.00 L 1.00 | PRE  |      |         |         |         |         |
| 6 NAF-72          | 86 D .215   | PRE  |      | 100.0 a | 9.0 a   | 89.5 a  | 90.0 ab |
| 6 DUAL            | 8.00 L 1.50 | PRE  |      |         |         |         |         |
| 6 ATRAZINE        | 4.00 L 1.00 | PRE  |      |         |         |         |         |
| 7 BICEP           | 6.00 L 3.50 | PRE  |      | 98.8 ab | 8.8 a   | 87.5 a  | 90.0 ab |
| 8 CONTROL         |             |      |      | 0.0 c   | 0.0 c   | 0.0 c   | 0.0 d   |
| LSD (.05) =       |             |      |      | 6.3     | 1.6     | 17.9    | 15.3    |
| Standard Dev.=    |             |      |      | 4.28261 | 1.09449 | 12.1758 | 10.3940 |
| CV =              |             |      |      | 5.01    | 17.25   | 19.60   | 14.85   |
| Block F           |             |      |      | 1.292   | 1.139   | 3.091   | 3.992   |
| Block Prob(F)     |             |      |      | 0.3032  | 0.3562  | 0.0491  | 0.0214  |
| Treatment F       |             |      |      | 261.414 | 28.379  | 23.475  | 33.438  |
| Treatment Prob(F) |             |      |      | 0.0001  | 0.0001  | 0.0001  | 0.0001  |

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

- End of Report -

10-24-93 (RDPSSUPP.DD)

SITE DESC.

VPI & SU  
ROUNDUP Corn No-TillProject Code: 93 MONSANTO  
Cooperator : E.S. HAGOODLocation : WHITETHORNE, VA.  
By: Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-11-93 Variety PIONEER 3154 Row Width 30"  
 Design RCB No. Reps. 4 Plot Size 6 X 25 FEET  
 Field Preparation and Plot Maintenance NO-TILL INTO SOYBEAN STUBBLE

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand

% Silt

% Clay

Soil Series ROSS

% OM

2.5

pH

6.3

CEC

## Application Information

A

B

C

D

E

F

Date Treated 5-11-93

Time Treated 2:00 PM

Cloud Cover 20%

Air Temperature 83 F

Relative Humidity 80%

Wind Speed/Direction 3-5 SW

Soil Temperature

Soil/Leaf Surface Moisture DRY

Soil Subsurface Moisture MOIST

Soil Tilth FAIR

Crop Stage PRE

Pest Name, Stage &amp; Density

MBTR 4-6 LEAF 2-4"

ANDI 2 LEAF 1/4-1/2"

CYPES 4-5 LEAF 3-4"

## Application Equipment

|    | Sprayer<br>Type | Speed<br>MPH | Nozzle<br>Type | Nozzle<br>Size | Nozzle<br>Height | Nozzle<br>Spacing | Boom<br>Width | GPA  | Carrier | PSI |
|----|-----------------|--------------|----------------|----------------|------------------|-------------------|---------------|------|---------|-----|
| 1. | CO/2 BACKPACK   | 3.1          | FLAT FAN       | 8003           | 20"              | 18"               | 72"           | 22.5 | WATER   | 32  |
| 2. |                 |              |                |                |                  |                   |               |      |         |     |
| 3. |                 |              |                |                |                  |                   |               |      |         |     |
| 4. |                 |              |                |                |                  |                   |               |      |         |     |
| 5. |                 |              |                |                |                  |                   |               |      |         |     |
| 6. |                 |              |                |                |                  |                   |               |      |         |     |

## Comments

10-3-93 (RDPSSUPP.DAT)

SUMMARY

VPI & SU  
ROUNDUP Corn No-TillProject Code:93 MONSANTO  
Cooperator :E.S. HAGOODLocation :WHITETHORNE, VA.  
By:Dept. Plant Path., Phys.,

|                  |        |         |        |         |         |         |
|------------------|--------|---------|--------|---------|---------|---------|
| Weed/Crop Code   | INJURY | OVERALL | AMBTR  | INJURY  | OVERALL | AMBTR   |
| Rating Data Type | VISUAL | VISUAL  | VISUAL | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10   | 0-10    | 0-100  | 0-10    | 0-10    | 0-100   |
| Rating Date      | 6-1-93 | 6-1-93  | 6-1-93 | 6-11-93 | 6-11-93 | 6-11-93 |

| Trt Treatment     | Form Fm     | Rate    | Grow | Appl |        |         |         |        |         |         |
|-------------------|-------------|---------|------|------|--------|---------|---------|--------|---------|---------|
| No Name           | Amt Ds Rate | Unit    | Stg  | Code |        |         |         |        |         |         |
| 1 bullet          | 4.00 l 4.00 | lb ai/A | pre  |      | 0.0 a  | 7.8 b   | 86.3 b  | 0.0 a  | 5.0 c   | 70.0 b  |
| 2 bicep           | 6.00 l 3.50 | lb ai/A | pre  |      | 0.0 a  | 5.8 c   | 75.0 c  | 0.0 a  | 4.5 c   | 60.0 b  |
| 3 roundup         | 4.00 l .50  | lb ai/A | pre  |      | 0.0 a  | 9.0 a   | 97.5 a  | 0.0 a  | 8.5 ab  | 91.3 a  |
| 3 2,4-D           | 3.80 l .250 | lb ai/A | pre  |      |        |         |         |        |         |         |
| 3 bullet          | 4.00 l 4.00 | lb ai/A | pre  |      |        |         |         |        |         |         |
| 4 roundup         | 4.00 l .50  | lb ai/A | pre  |      | 0.0 a  | 9.8 a   | 98.8 a  | 0.0 a  | 8.8 ab  | 91.3 a  |
| 4 2,4-D           | 3.80 l .50  | lb ai/A | pre  |      |        |         |         |        |         |         |
| 4 bullet          | 4.00 l 4.00 | lb ai/A | pre  |      |        |         |         |        |         |         |
| 5 roundup         | 4.00 l .50  | lb ai/A | pre  |      | 0.0 a  | 8.8 ab  | 96.3 a  | 0.0 a  | 8.0 b   | 93.8 a  |
| 5 2,4-D           | 3.80 l .250 | lb ai/A | pre  |      |        |         |         |        |         |         |
| 5 bullet          | 4.00 l 4.00 | lb ai/A | pre  |      |        |         |         |        |         |         |
| 5 liquid nitro    |             | lb ai/A | pre  |      |        |         |         |        |         |         |
| 6 roundup         | 4.00 l .50  | lb ai/A | pre  |      | 0.0 a  | 9.3 a   | 100.0 a | 0.0 a  | 8.5 ab  | 92.5 a  |
| 6 2,4-D           | 3.80 l .50  | lb ai/A | pre  |      |        |         |         |        |         |         |
| 6 bullet          | 4.00 l 4.00 | lb ai/A | pre  |      |        |         |         |        |         |         |
| 6 liquid nitro    |             | lb ai/A | pre  |      |        |         |         |        |         |         |
| 7 gramoxone xtra  | 2.50 l .417 | lb ai/A | pre  |      | 0.0 a  | 9.0 a   | 100.0 a | 0.0 a  | 9.3 a   | 92.5 a  |
| 7 bicep           | 6.00 l 3.50 | lb ai/A | pre  |      |        |         |         |        |         |         |
| 7 X-77            | l .250      | % v/v   | pre  |      |        |         |         |        |         |         |
| 8 control         |             |         |      |      | 0.0 a  | 0.0 d   | 0.0 d   | 0.0 a  | 0.0 d   | 0.0 c   |
| LSD (.05) =       |             |         |      |      | 0      | 1.0     | 6.0     | 0      | 0.8     | 11.7    |
| Standard Dev.=    |             |         |      |      | 0      | .695436 | 4.06879 | 0      | .540062 | 7.95495 |
| CV =              |             |         |      |      | 0      | 9.39    | 4.98    | 0      | 8.23    | 10.76   |
| Block F           |             |         |      |      | 0.000  | 2.477   | 0.676   | 0.000  | 0.429   | 0.671   |
| Block Prob(F)     |             |         |      |      | 1.0000 | 0.0894  | 0.5762  | 1.0000 | 0.7346  | 0.5795  |
| Treatment F       |             |         |      |      | 0.000  | 86.834  | 281.737 | 0.000  | 139.776 | 66.439  |
| Treatment Prob(F) |             |         |      |      | 1.0000 | 0.0001  | 0.0001  | 1.0000 | 0.0001  | 0.0001  |

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

10-3-93 (RDPSSUPP.DAT)

## SUMMARY

VPI & SU  
ROUNDUP Corn No-TillProject Code: 93 MONSANTO  
Cooperator : E.S. HAGOODLocation : WHITETHORNE, VA.  
By: Dept. Plant Path., Phys.,

|                  |         |         |
|------------------|---------|---------|
| Seed/Crop Code   | CYPES   | PANDI   |
| Rating Data Type | VISUAL  | VISUAL  |
| Rating Unit      | 0-100   | 0-100   |
| Rating Date      | 6-11-93 | 6-11-93 |

| Trt Treatment     | Form Fm     | Rate    | Grow | Appl |         |         |
|-------------------|-------------|---------|------|------|---------|---------|
| No Name           | Amt Ds Rate | Unit    | Stg  | Code |         |         |
| 1 bullet          | 4.00 l 4.00 | lb ai/A | pre  |      | 73.8 b  | 53.8 b  |
| 2 bicep           | 6.00 l 3.50 | lb ai/A | pre  |      | 81.3 ab | 37.5 b  |
| 3 roundup         | 4.00 l .50  | lb ai/A | pre  |      | 88.8 ab | 97.5 a  |
| 3 2,4-D           | 3.80 l .250 | lb ai/A | pre  |      |         |         |
| 3 bullet          | 4.00 l 4.00 | lb ai/A | pre  |      |         |         |
| 4 roundup         | 4.00 l .50  | lb ai/A | pre  |      | 95.0 a  | 95.0 a  |
| 4 2,4-D           | 3.80 l .50  | lb ai/A | pre  |      |         |         |
| 4 bullet          | 4.00 l 4.00 | lb ai/A | pre  |      |         |         |
| 5 roundup         | 4.00 l .50  | lb ai/A | pre  |      | 80.0 ab | 96.3 a  |
| 5 2,4-D           | 3.80 l .250 | lb ai/A | pre  |      |         |         |
| 5 bullet          | 4.00 l 4.00 | lb ai/A | pre  |      |         |         |
| 5 liquid nitro    |             | lb ai/A | pre  |      |         |         |
| 6 roundup         | 4.00 l .50  | lb ai/A | pre  |      | 85.0 ab | 93.8 a  |
| 6 2,4-D           | 3.80 l .50  | lb ai/A | pre  |      |         |         |
| 6 bullet          | 4.00 l 4.00 | lb ai/A | pre  |      |         |         |
| 6 liquid nitro    |             | lb ai/A | pre  |      |         |         |
| 7 gramoxone xtra  | 2.50 l .417 | lb ai/A | pre  |      | 100.0 a | 100.0 a |
| 7 bicep           | 6.00 l 3.50 | lb ai/A | pre  |      |         |         |
| 7 X-77            | l .250      | % v/v   | pre  |      |         |         |
| 8 control         |             |         |      |      | 0.0 c   | 0.0 c   |
| LSD (.05) =       |             |         |      |      | 18.5    | 17.2    |
| Standard Dev.=    |             |         |      |      | 12.5786 | 11.6959 |
| CV =              |             |         |      |      | 16.67   | 16.31   |
| Block F           |             |         |      |      | 0.913   | 0.569   |
| Block Prob(F)     |             |         |      |      | 0.4513  | 0.6414  |
| Treatment F       |             |         |      |      | 25.292  | 40.650  |
| Treatment Prob(F) |             |         |      |      | 0.0001  | 0.0001  |

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

- End of Report -

10-24-93 (SQADPURD.DD)

SITE DESC.

VPI &amp; SU

SQUADRON/PURSUIT + ROUNDUP GALLONAGE STUDY

Project Code:93-303

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-25-93

Variety ESSEX

Row Width 30"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance

SPRING PLOW, DISK AND ROTO-TILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture ROSS

% Sand \_\_\_\_\_ % Silt \_\_\_\_\_

% Clay \_\_\_\_\_

Soil Series SILT LOAM

% OM 2.5

pH 6.3

CEC \_\_\_\_\_

## Application Information

A

B

C

D

E

F

Date Treated

5-21-93

Time Treated

2 PM

Cloud Cover

50%

Air Temperature

61 F

Relative Humidity

65%

Wind Speed/Direction

3-5 NW

Soil Temperature

Soil/Leaf Surface Moisture

DRY

Soil Subsurface Moisture

MOIST

Soil Tilth

GOOD

Crop Stage

EPP

Pest Name, Stage &amp; Density

AMBTR 5-7 LEAF

3-5"

SORHA 3-5 LEAF

3-5"

IPOHE 1-2 LEAF

.5-1"

CYPES 5-6 LEAF

4-5"

## Application Equipment

Sprayer  
TypeSpeed  
MPHNozzle  
TypeNozzle  
SizeNozzle  
HeightNozzle  
SpacingBoom  
Width

GPA

Carrier PSI

1. CO/2 BACKPACK

3.1

FLAT FAN

8003

20"

18"

72"

WATER

32

2.

3.

4.

5.

6.

## Comments

10-3-93 (SQADPURD.DAT)

## SUMMARY

## VPI &amp; SU

## SQUADRON/PURSUIT + ROUNDUP GALLONAGE STUDY

Project Code:93-303

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

| Weed/Crop Code   | OVERALL | AMBTR  | IPOHE  | SORHA  | CYPES  |
|------------------|---------|--------|--------|--------|--------|
| Rating Data Type | VISUAL  | VISUAL | VISUAL | VISUAL | VISUAL |
| Rating Unit      | 0-10    | 0-100  | 0-100  | 0-100  | 0-100  |
| Rating Date      | 6-7-93  | 6-7-93 | 6-7-93 | 6-7-93 | 6-7-93 |

| Trt Treatment  | Form Fm     | Rate    | Grow | Appl |         |          |         |         |         |
|----------------|-------------|---------|------|------|---------|----------|---------|---------|---------|
| No Name        | Amt Ds Rate | Unit    | Stg  | Code |         |          |         |         |         |
| 1 roundup      | 4.00 l .50  | lb ai/A | epp  |      | 7.5 a   | 90.0 bc  | 80.0 a  | 75.0 b  | 80.0 b  |
| 1 X-77         | l .50       | % v/v   | epp  |      |         |          |         |         |         |
| 1 5 GPA        |             |         |      |      |         |          |         |         |         |
| 2 roundup      | 4.00 l .50  | lb ai/A | epp  |      | 8.8 a   | 93.8 abc | 90.8 a  | 96.3 a  | 96.3 a  |
| 2 prowl        | 60 d 1.66   | lb ai/A | epp  |      |         |          |         |         |         |
| 2 X-77         | l .50       | % v/v   | epp  |      |         |          |         |         |         |
| 2 5 GPA        |             |         |      |      |         |          |         |         |         |
| 3 roundup      | 4.00 l .50  | lb ai/A | epp  |      | 8.8 a   | 96.3 abc | 87.5 a  | 93.8 a  | 91.3 a  |
| 3 sceptor      | 70 d .125   | lb ai/A | epp  |      |         |          |         |         |         |
| 3 X-77         | l .50       | % v/v   | epp  |      |         |          |         |         |         |
| 3 5 GPA        |             |         |      |      |         |          |         |         |         |
| 4 roundup      | 4.00 l .50  | lb ai/A | epp  |      | 7.8 a   | 88.8 c   | 91.3 a  | 90.0 a  | 88.8 ab |
| 4 pursuit plus | 3.00 l .94  | lb ai/A | epp  |      |         |          |         |         |         |
| 4 X-77         | l .50       | % v/v   | epp  |      |         |          |         |         |         |
| 4 5 GPA        |             |         |      |      |         |          |         |         |         |
| 5 roundup      | 4.00 l .50  | lb ai/A | epp  |      | 8.0 a   | 96.3 abc | 83.8 a  | 87.5 ab | 95.0 a  |
| 5 sceptor      | 70 d .125   | lb ai/A | epp  |      |         |          |         |         |         |
| 5 prowl        | 60 d 1.00   | lb ai/A | epp  |      |         |          |         |         |         |
| 5 X-77         | l .50       | % v/v   | epp  |      |         |          |         |         |         |
| 5 10 GPA       |             |         |      |      |         |          |         |         |         |
| 6 roundup      | 4.00 l .50  | lb ai/A | epp  |      | 8.0 a   | 97.5 ab  | 90.0 a  | 85.0 ab | 95.0 a  |
| 6 pursuit plus | 3.00 l .95  | lb ai/A | epp  |      |         |          |         |         |         |
| 6 X-77         | l .50       | % v/v   | epp  |      |         |          |         |         |         |
| 6 10 GPA       |             |         |      |      |         |          |         |         |         |
| 7 roundup      | 4.00 l .50  | lb ai/A | epp  |      | 8.3 a   | 98.8 a   | 93.8 a  | 87.5 ab | 91.3 a  |
| 7 prowl        | 60 d 1.00   | lb ai/A | epp  |      |         |          |         |         |         |
| 7 X-77         | l .50       | % v/v   | epp  |      |         |          |         |         |         |
| 7 10 GPA       |             |         |      |      |         |          |         |         |         |
| 8 roundup      | 4.00 l .50  | lb ai/A | epp  |      | 8.0 a   | 96.3 abc | 93.8 a  | 85.0 ab | 92.5 a  |
| 8 X-77         | l .50       | % v/v   | epp  |      |         |          |         |         |         |
| 8 10 GPA       |             |         |      |      |         |          |         |         |         |
| 9 control      |             |         |      |      | 0.0 b   | 0.0 d    | 0.0 b   | 0.0 c   | 0.0 c   |
| LSD (.05) =    |             |         |      |      | 1.2     | 7.5      | 13.2    | 11.5    | 10.3    |
| Standard Dev.= |             |         |      |      | .810807 | 5.14264  | 9.03286 | 7.87269 | 7.03826 |
| CV =           |             |         |      |      | 11.23   | 6.11     | 11.44   | 10.12   | 8.68    |

10-3-93 (SQADPURD.DAT)

SUMMARY

VPI & SU

SQUADRON/PURSUIT + ROUNDUP GALLONAGE STUDY

Project Code:93-303

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

| Weed/Crop Code    | OVERALL | AMBTR   | IPOHE  | SORHA  | CYPES  |
|-------------------|---------|---------|--------|--------|--------|
| Rating Data Type  | VISUAL  | VISUAL  | VISUAL | VISUAL | VISUAL |
| Rating Unit       | 0-10    | 0-100   | 0-100  | 0-100  | 0-100  |
| Rating Date       | 6-7-93  | 6-7-93  | 6-7-93 | 6-7-93 | 6-7-93 |
| =====             |         |         |        |        |        |
| Block F           | 8.225   | 7.597   | 4.406  | 8.336  | 3.103  |
| Block Prob(F)     | 0.0006  | 0.0010  | 0.0132 | 0.0006 | 0.0455 |
| Treatment F       | 45.676  | 152.370 | 44.006 | 57.246 | 76.598 |
| Treatment Prob(F) | 0.0001  | 0.0001  | 0.0001 | 0.0001 | 0.0001 |

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

- End of Report -

10-25-93 (SCEPTANK.DD)

SITE DESC.

VPI &amp; SU

SCEPTER TANK MIXES WITH ACETAMIDES

Project Code:93 SCEPTER  
Cooperator :E.S. HAGOODLocation :WHITETHORNE, VA.  
By:Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-25-93 Variety ESSEX Row Width 30"  
 Design RCB No. Reps. 4 Plot Size 6 X 25 FEET  
 Field Preparation and Plot Maintenance SPRING PLOW, DISKED AND ROTO-TILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture ROSS

% Sand

% Silt

% Clay

Soil Series SILT LOAM

% OM

2.5

pH

6.3

CEC

## Application Information

A

B

C

D

E

F

Date Treated

5-25-93

6-16-93

Time Treated

10 AM

12:30 PM

Cloud Cover

100%

10%

Air Temperature

73 F

84 F

Relative Humidity

80%

85%

Wind Speed/Direction

0-3 SW

0-3 SW

Soil Temperature

Soil/Leaf Surface Moisture

DRY

MOIST

Soil Subsurface Moisture

MOIST

MOIST

Soil Tilth

GOOD

Crop Stage

PRE

EPOST

Pest Name, Stage &amp; Density

POLPY

5 LEAF

2-4"

AMBTR

6 LEAF

4-6"

IPOHE

2 LEAF

COTY

PANDI

2-4 LEAF

3-5"

## Application Equipment

Sprayer  
TypeSpeed  
MPHNozzle  
TypeNozzle  
SizeNozzle  
HeightNozzle  
SpacingBoom  
Width

GPA

Carrier PSI

1. CO/2 BACKPACK 3.1 FLAT FAN 8003 20" 18" 72" 22.5 WATER 32  
 2. CO/2 BACKPACK 3.1 FLAT FAN 8003 20" 18" 72" 22.5 WATER 32

3. \_\_\_\_\_  
 4. \_\_\_\_\_  
 5. \_\_\_\_\_  
 6. \_\_\_\_\_

## Comments

6-16-93 = SOYBEANS : V2 stage

10-24-93 (SCEPTANK.DAT)

SUMMARY

VPI &amp; SU

SCEPTER TANK MIXES WITH ACETAMIDES

Project Code:93 SCEPTER

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

All rates are specified as lb ai/A

|                  |         |         |         |         |         |         |         |
|------------------|---------|---------|---------|---------|---------|---------|---------|
| Weed/Crop Code   | INJURY  | INJURY  | OVERALL | AMBTR   | PANDI   | SOLAM   | IPOHE   |
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-10    | 0-10    | 0-100   | 0-100   | 0-100   | 0-100   |
| Rating Date      | 6-21-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 |

| Trt Treatment     | Form Fm     | Grow  | Appl |         |         |         |          |          |         |         |
|-------------------|-------------|-------|------|---------|---------|---------|----------|----------|---------|---------|
| No Name           | Amt Ds Rate | Stg   | Code |         |         |         |          |          |         |         |
| 1 sceptor         | 1.50 l .125 | pre   |      | 0.8 cd  | 0.8 a   | 7.5 a-d | 80.0 abc | 53.8 d   | 95.0 a  | 92.5 ab |
| 2 sceptor         | 1.50 l .125 | pre   |      | 1.5 bc  | 0.5 a   | 7.5 a-d | 73.8 abc | 81.3 abc | 97.5 a  | 100.0 a |
| 2 prowl           | 4.00 l 1.00 | pre   |      |         |         |         |          |          |         |         |
| 3 sceptor         | 1.50 l .125 | pre   |      | 3.5 a   | 1.0 a   | 9.3 a   | 95.0 a   | 95.0 ab  | 100.0 a | 100.0 a |
| 3 prowl           | 4.00 l 1.00 | pre   |      |         |         |         |          |          |         |         |
| 3 cobra           | 2.00 l .063 | epost |      |         |         |         |          |          |         |         |
| 4 sceptor         | 1.50 l .125 | pre   |      | 0.5 cd  | 0.5 a   | 8.8 ab  | 92.5 ab  | 72.5 bcd | 92.5 a  | 98.8 a  |
| 4 dual            | 8.00 l 1.50 | pre   |      |         |         |         |          |          |         |         |
| 5 sceptor         | 1.50 l .125 | pre   |      | 2.3 b   | 0.3 a   | 7.5 a-d | 73.8 abc | 81.3 abc | 95.0 a  | 96.3 ab |
| 5 lasso           | 4.00 l 1.50 | pre   |      |         |         |         |          |          |         |         |
| 6 sceptor         | 1.50 l .125 | pre   |      | 0.8 cd  | 0.0 a   | 6.5 cd  | 73.8 abc | 72.5 bcd | 96.3 a  | 93.8 ab |
| 6 frontier        | 7.50 l .75  | pre   |      |         |         |         |          |          |         |         |
| 7 NAF-2           | 7.66 l 1.92 | pre   |      | 1.3 bc  | 0.8 a   | 6.0 d   | 60.0 c   | 57.5 cd  | 97.5 a  | 78.8 c  |
| 8 gemini          | 60 d .45    | pre   |      | 1.3 bc  | 1.0 a   | 7.3 bcd | 72.5 bc  | 70.0 bcd | 91.3 a  | 85.0 bc |
| 8 dual            | 8.00 l 1.50 | pre   |      |         |         |         |          |          |         |         |
| 9 prowl           | 4.00 l 1.00 | pre   |      | 2.3 b   | 0.5 a   | 8.3 abc | 83.8 ab  | 93.8 ab  | 93.8 a  | 100.0 a |
| 9 pursuit         | 1.50 l .065 | epost |      |         |         |         |          |          |         |         |
| 10 prowl          | 4.00 l 1.00 | pre   |      | 2.0 b   | 0.3 a   | 8.5 ab  | 83.8 ab  | 98.8 a   | 100.0 a | 100.0 a |
| 10 lorox          | 50 d .50    | pre   |      |         |         |         |          |          |         |         |
| 10 pursuit        | 1.50 l .063 | epost |      |         |         |         |          |          |         |         |
| 11 lorox          | 50 d .50    | pre   |      | 2.0 b   | 0.8 a   | 8.0 abc | 80.0 abc | 90.0 ab  | 100.0 a | 100.0 a |
| 11 pursuit        | 1.50 l .063 | epost |      |         |         |         |          |          |         |         |
| 12 control        |             |       |      | 0.0 d   | 0.0 a   | 0.0 e   | 0.0 d    | 0.0 e    | 0.0 b   | 0.0 d   |
| LSD (.05) =       |             |       |      | 0.9     | 0.9     | 1.6     | 18.5     | 22.1     | 10.0    | 12.3    |
| Standard Dev.=    |             |       |      | .651339 | .651824 | 1.13707 | 12.8370  | 15.2840  | 6.90964 | 8.49093 |
| CV =              |             |       |      | 43.42   | 125.15  | 16.05   | 17.73    | 21.17    | 7.83    | 9.75    |
| Block F           |             |       |      | 2.750   | 0.572   | 0.859   | 0.821    | 0.442    | 1.436   | 0.790   |
| Block Prob(F)     |             |       |      | 0.0583  | 0.6374  | 0.4718  | 0.4918   | 0.7244   | 0.2498  | 0.5083  |
| Treatment F       |             |       |      | 8.679   | 1.119   | 17.977  | 14.760   | 12.366   | 65.394  | 44.312  |
| Treatment Prob(F) |             |       |      | 0.0001  | 0.3783  | 0.0001  | 0.0001   | 0.0001   | 0.0001  | 0.0001  |

10-24-93 (SCEPTANK.DAT)

## SUMMARY

VPI &amp; SU

## SCEPTER TANK MIXES WITH ACETAMIDES

Project Code:93 SCEPTER

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

All rates are specified as lb ai/A

Weed/Crop Code

POLPY

Rating Data Type

VISUAL

Rating Unit

0-100

Rating Date

6-30-93

| Trt No | Treatment Name | Form   | Fm   | Grow Stg | Appl Code |
|--------|----------------|--------|------|----------|-----------|
| 1      | scepter        | 1.50 l | .125 | pre      | 97.5 a    |
| 2      | scepter        | 1.50 l | .125 | pre      | 96.3 a    |
| 2      | prowl          | 4.00 l | 1.00 | pre      |           |
| 3      | scepter        | 1.50 l | .125 | pre      | 100.0 a   |
| 3      | prowl          | 4.00 l | 1.00 | pre      |           |
| 3      | cobra          | 2.00 l | .063 | epost    |           |
| 4      | scepter        | 1.50 l | .125 | pre      | 95.0 ab   |
| 4      | dual           | 8.00 l | 1.50 | pre      |           |
| 5      | scepter        | 1.50 l | .125 | pre      | 90.0 ab   |
| 5      | lasso          | 4.00 l | 1.50 | pre      |           |
| 6      | scepter        | 1.50 l | .125 | pre      | 81.3 b    |
| 6      | frontier       | 7.50 l | .75  | pre      |           |
| 7      | NAF-2          | 7.66 l | 1.92 | pre      | 91.3 ab   |
| 8      | gemini         | 60 d   | .45  | pre      | 93.8 ab   |
| 8      | dual           | 8.00 l | 1.50 | pre      |           |
| 9      | prowl          | 4.00 l | 1.00 | pre      | 100.0 a   |
| 9      | pursuit        | 1.50 l | .065 | epost    |           |
| 10     | prowl          | 4.00 l | 1.00 | pre      | 100.0 a   |
| 10     | lorox          | 50 d   | .50  | pre      |           |
| 10     | pursuit        | 1.50 l | .063 | epost    |           |
| 11     | lorox          | 50 d   | .50  | pre      | 100.0 a   |
| 11     | pursuit        | 1.50 l | .063 | epost    |           |
| 12     | control        |        |      |          | 0.0 c     |

LSD (.05) =

13.1

Standard Dev.=

9.08017

CV =

10.43

Block F

1.735

Block Prob(F)

0.1789

Treatment F

37.975

Treatment Prob(F)

0.0001

10-25-93 (SQADTANK.DD)

SITE DESC.

VPI &amp; SU

SQUADRON TANK MIXES WITH ACETAMIDES

Project Code:93 SQUADRON

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-25-93

Variety ESSEX

Row Width 30"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance SPRING PLOWED, DISKED AND ROTO-TILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture ROSS

% Sand

% Silt

% Clay

Soil Series SILT LOAM

% OM

2.5

pH

6.3

CEC

## Application Information

A

B

C

D

E

F

Date Treated

5-25-93

6-16-93

Time Treated

9:30 AM

12:15 PM

Cloud Cover

100%

10%

Air Temperature

72 F

84 F

Relative Humidity

80%

85%

Wind Speed/Direction

0-3 SW

0-3 SW

Soil Temperature

Soil/Leaf Surface Moisture

DRY

MOIST

Soil Subsurface Moisture

MOIST

MOIST

Soil Tilth

GOOD

Crop Stage

PRE

EPOST

Pest Name, Stage &amp; Density

PLOPY

5 LEAF

2-4"

AMBTR

6 LEAF

4-6"

IPOHE

2 LEAF

COTY

PANDI

2-4 LEAF

3-5"

## Application Equipment

|    | Sprayer<br>Type | Speed<br>MPH | Nozzle<br>Type | Nozzle<br>Size | Nozzle<br>Height | Nozzle<br>Spacing | Boom<br>Width | GPA  | Carrier | PSI |
|----|-----------------|--------------|----------------|----------------|------------------|-------------------|---------------|------|---------|-----|
| 1. | CO/2 BACKPACK   | 3.1          | FLAT FAN       | 8003           | 20"              | 18"               | 72"           | 22.5 | WATER   | 32  |
| 2. | CO/2 BACK PACK  | 3.1          | FLAT FAN       | 8003           | 20"              | 18"               | 72"           | 22.5 | WATER   | 32  |
| 3. |                 |              |                |                |                  |                   |               |      |         |     |
| 4. |                 |              |                |                |                  |                   |               |      |         |     |
| 5. |                 |              |                |                |                  |                   |               |      |         |     |
| 6. |                 |              |                |                |                  |                   |               |      |         |     |

## Comments

6-16-93 = SOYBEANS : V2 stage

10-3-93 (SQADTANK.DAT)

## SUMMARY

VPI &amp; SU

## SQUADRON TANK MIXES WITH ACETAMIDES

Project Code:93 SQUADRON

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

All rates are specified as lb ai/A

| Weed/Crop Code   | INJURY  | INJURY  | OVERALL | AMBTR   | IPOHE   | POLPY   | PANDI   |
|------------------|---------|---------|---------|---------|---------|---------|---------|
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-10    | 0-100   | 0-100   | 0-100   | 0-100   | 0-100   |
| Rating Date      | 6-21-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 |

| Trt Treatment | Form Fm     | Grow  | Appl |         |        |         |          |        |         |         |
|---------------|-------------|-------|------|---------|--------|---------|----------|--------|---------|---------|
| No Name       | Amt Ds Rate | Stg   | Code |         |        |         |          |        |         |         |
| 1 squadron    | 2.33 l .875 | pre   |      | 2.0 a   | 1.5 a  | 8.5 a   | 87.5 a   | 85.0 a | 100.0 a | 70.0 b  |
| 1 cobra       | 2.00 l .063 | epost |      |         |        |         |          |        |         |         |
| 2 squadron    | 2.33 l .875 | pre   |      | 0.5 bc  | 0.3 c  | 6.8 abc | 63.8 bcd | 83.8 a | 97.5 a  | 76.3 b  |
| 2 prowl       | 4.00 l .50  | pre   |      |         |        |         |          |        |         |         |
| 3 squadron    | 2.33 l .875 | pre   |      | 0.3 bc  | 0.0 c  | 6.3 bcd | 65.0 bcd | 81.3 a | 97.5 a  | 70.0 b  |
| 3 dual        | 8.00 l .50  | pre   |      |         |        |         |          |        |         |         |
| 4 squadron    | 2.33 l .875 | pre   |      | 0.3 bc  | 0.0 c  | 6.3 bcd | 62.5 bcd | 82.5 a | 85.0 a  | 75.0 b  |
| 4 dual        | 8.00 l 1.00 | pre   |      |         |        |         |          |        |         |         |
| 5 squadron    | 2.33 l .875 | pre   |      | 0.5 bc  | 0.0 c  | 5.3 cde | 51.3 cde | 80.0 a | 87.5 a  | 67.5 b  |
| 5 lasso       | 4.00 l .50  | pre   |      |         |        |         |          |        |         |         |
| 6 squadron    | 2.33 l .875 | pre   |      | 1.3 ab  | 0.5 bc | 7.3 ab  | 71.3 abc | 85.0 a | 96.3 a  | 76.3 b  |
| 6 lasso       | 4.00 l 1.00 | pre   |      |         |        |         |          |        |         |         |
| 7 squadron    | 2.33 l .875 | pre   |      | 0.5 bc  | 0.0 c  | 6.3 bcd | 63.8 bcd | 87.5 a | 85.0 a  | 76.3 b  |
| 7 frontier    | 7.50 l .250 | pre   |      |         |        |         |          |        |         |         |
| 8 squadron    | 2.33 l .875 | pre   |      | 0.5 bc  | 0.0 c  | 6.5 bc  | 65.0 bcd | 90.0 a | 90.0 a  | 85.0 ab |
| 8 frontier    | 7.50 l .50  | pre   |      |         |        |         |          |        |         |         |
| 9 NAF-2       | 7.66 l 1.92 | pre   |      | 0.0 c   | 0.0 c  | 4.5 de  | 37.5 e   | 48.8 b | 62.5 b  | 70.0 b  |
| 10 gemini     | 60 d .45    | pre   |      | 1.0 abc | 0.0 c  | 4.5 de  | 45.0 de  | 55.0 b | 82.5 a  | 45.0 c  |
| 10 dual       | 8.00 l 1.50 | pre   |      |         |        |         |          |        |         |         |
| 11 prowl      | 4.00 l 1.00 | pre   |      | 1.0 abc | 0.5 bc | 8.0 ab  | 81.3 ab  | 93.8 a | 97.5 a  | 97.5 a  |
| 11 pursuit    | 1.50 l .063 | epost |      |         |        |         |          |        |         |         |
| 12 prowl      | 4.00 l 1.00 | pre   |      | 0.5 bc  | 0.0 c  | 4.0 e   | 40.0 e   | 42.5 b | 85.0 a  | 75.0 b  |
| 12 lorox      | 50 d .50    | pre   |      |         |        |         |          |        |         |         |
| 13 prowl      | 4.00 l 1.00 | pre   |      | 1.0 abc | 0.0 c  | 7.8 ab  | 76.3 ab  | 98.8 a | 100.0 a | 100.0 a |
| 13 lorox      | 50 d .50    | pre   |      |         |        |         |          |        |         |         |
| 13 pursuit    | 1.50 l .063 | epost |      |         |        |         |          |        |         |         |
| 14 lorox      | 50 d .50    | pre   |      | 1.3 ab  | 0.8 b  | 7.5 ab  | 76.3 ab  | 92.5 a | 92.5 a  | 73.8 b  |
| 14 pursuit    | 1.50 l .063 | epost |      |         |        |         |          |        |         |         |
| 15 control    |             |       |      | 0.3 bc  | 0.0 c  | 0.0 f   | 0.0 f    | 0.0 c  | 0.0 c   | 0.0 d   |

10-3-93 (SQADTANK.DAT)

## SUMMARY

VPI &amp; SU

## SQUADRON TANK MIXES WITH ACETAMIDES

Project Code:93 SQUADRON

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

|                  |         |         |         |         |         |         |         |
|------------------|---------|---------|---------|---------|---------|---------|---------|
| Weed/Crop Code   | INJURY  | INJURY  | OVERALL | AMBTR   | IPOHE   | POLPY   | PANDI   |
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-10    | 0-100   | 0-100   | 0-100   | 0-100   | 0-100   |
| Rating Date      | 6-21-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 |

|                   |         |         |         |         |         |         |         |
|-------------------|---------|---------|---------|---------|---------|---------|---------|
| LSD (.05) =       | 1.0     | 0.4     | 1.6     | 17.9    | 22.8    | 17.2    | 17.9    |
| Standard Dev.=    | .681386 | .299471 | 1.11484 | 12.5119 | 15.9606 | 12.0507 | 12.5135 |
| CV =              | 95.08   | 128.34  | 18.74   | 21.18   | 21.64   | 14.36   | 17.75   |
| Block F           | 0.897   | 2.726   | 1.623   | 1.131   | 0.320   | 0.447   | 1.593   |
| Block Prob(F)     | 0.4505  | 0.0561  | 0.1985  | 0.3474  | 0.8108  | 0.7210  | 0.2054  |
| Treatment F       | 2.374   | 8.150   | 14.517  | 12.305  | 10.932  | 17.418  | 13.849  |
| Treatment Prob(F) | 0.0155  | 0.0001  | 0.0001  | 0.0001  | 0.0001  | 0.0001  | 0.0001  |

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

- End of Report -

10-25-93 (BROADBEA.DD)

SITE DESC.

VPI &amp; SU

BROADSTRIKE IN SOYBEANS

Project Code: BROADBEA

Location : WHITETHORNE, VA.

Cooperator : E.S. HAGOOD, JR.

By: Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-25-93

Variety ESSEX

Row Width 30"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance SPRING DISKED AND ROTOTILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand

% Silt

% Clay

Soil Series ROSS

% OM

2.5

pH

6.3

CEC

## Application Information

A

B

C

D

E

F

Date Treated

5-25-93

6-16-93

Time Treated

1 PM

1-2 PM

Cloud Cover

100%

10%

Air Temperature

80 F

86 F

Relative Humidity

95%

85%

Wind Speed/Direction

0-2 SW

0-3 SW

Soil Temperature

Soil/Leaf Surface Moisture

MOIST

MOIST

Soil Subsurface Moisture

MOIST

MOIST

Soil Tilth

GOOD

GOOD

Crop Stage

PPI-PRE

POST

Pest Name, Stage &amp; Density

AMBTR 6 LEAF

4-6"

CHEAL 4 LEAF

5"

PANDI 2-4 LEAF

3-5"

IPOHE 2 LEAF

COTY

## Application Equipment

Sprayer  
TypeSpeed  
MPHNozzle  
TypeNozzle  
SizeNozzle  
HeightNozzle  
SpacingBoom  
Width

GPA

Carrier

PSI

1. CO/2 BACKPACK

3.1

FLAT FAN

8003

20"

18"

72"

22.5

WATER

34

2. CO/2 BACKPACK

3.1

FLAT FAN

8003

20"

18"

72"

22.5

WATER

34

3.

4.

5.

6.

## Comments

1X roto-tiller incorporation of all PPI treatments. 6-16-93 SOLAM 4-5 LEAF 4"

6-16-93 = SOYBEANS : V2 stage

10-3-93 (BROADBEA.DAT)

## SUMMARY

VPI & SU  
BROADSTRIKE IN SOYBEANS

Project Code: BROADBEA

Location : WHITETHORNE, VA.

Cooperator : E.S. HAGOOD, JR.

By: Dept. Plant Path., Phys.,

|                  |         |         |         |         |         |         |
|------------------|---------|---------|---------|---------|---------|---------|
| Weed/Crop Code   | INJURY  | INJURY  | OVERALL | AMBTR   | CHEAL   | PANDI   |
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-10    | 0-10    | 0-100   | 0-100   | 0-100   |
| Rating Date      | 6-21-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 |

| Trt Treatment | Form Fm | Rate | Grow    | Appl  |      |        |        |         |          |                 |
|---------------|---------|------|---------|-------|------|--------|--------|---------|----------|-----------------|
| No Name       | Amt Ds  | Rate | Unit    | Stg   | Code |        |        |         |          |                 |
| 01 NAF 2      | 7.66 L  | 1.68 | lb ai/A | PRE   |      | 1.3 a  | 0.5 ab | 5.8 abc | 57.5 ab  | 87.5 abc 92.5 a |
| 02 NAF 2      | 7.66 L  | 1.92 | lb ai/A | PRE   |      | 1.0 ab | 0.3 b  | 5.0 a-d | 52.5 a-d | 96.3 ab 98.8 a  |
| 03 NAF 2      | 7.66 L  | 2.16 | lb ai/A | PRE   |      | 1.3 a  | 0.5 ab | 6.3 a   | 62.5 a   | 97.5 ab 100.0 a |
| 04 NAF 2      | 7.66 L  | 1.92 | lb ai/A | PRE   |      | 1.0 ab | 0.5 ab | 5.0 a-d | 47.5 a-d | 100.0 a 100.0 a |
| 04 STORM      | 4.0 L   | .750 | lb ai/A | EPOST |      |        |        |         |          |                 |
| 05 DUAL       | 8.0 L   | 1.50 | lb ai/A | PRE   |      | 0.8 ab | 0.5 ab | 6.0 ab  | 60.0 ab  | 96.3 ab 93.8 a  |
| 05 CANOPY     | 75 D    | .280 | lb ai/A | PRE   |      |        |        |         |          |                 |
| 06 XRM 5313   | 3.65 L  | .684 | lb ai/A | PPI   |      | 0.0 b  | 0.5 ab | 4.3 a-d | 40.0 bcd | 100.0 a 97.5 a  |
| 07 XRM 5313   | 3.65 L  | .913 | lb ai/A | PPI   |      | 0.8 ab | 0.3 b  | 5.5 abc | 55.0 abc | 96.3 ab 92.5 a  |
| 08 TREFLAN    | 4.0 L   | .850 | lb ai/A | PPI   |      | 1.0 ab | 1.3 a  | 6.3 a   | 63.8 a   | 100.0 a 98.8 a  |
| 08 CANOPY     | 75 D    | .280 | lb ai/A | PPI   |      |        |        |         |          |                 |
| 09 TREFLAN    | 4.0 L   | .850 | lb ai/A | PPI   |      | 0.5 ab | 0.0 b  | 2.8 cde | 32.5 d   | 92.5 abc 88.8 a |
| 09 LEXONE     | 75 D    | .250 | lb ai/A | PPI   |      |        |        |         |          |                 |
| 10 XRM 5313   | 3.65 L  | .913 | lb ai/A | PPI   |      | 0.3 ab | 0.3 b  | 6.5 a   | 63.8 a   | 96.3 ab 92.5 a  |
| 10 CLASSIC    | 25 D    | .008 | lb ai/A | EPOST |      |        |        |         |          |                 |
| 10 X-77       | L       | .250 | % v/v   | EPOST |      |        |        |         |          |                 |
| 11 TREFLAN    | 4.0 L   | .850 | lb ai/A | PPI   |      | 0.5 ab | 0.3 b  | 4.3 a-d | 57.5 ab  | 86.3 bc 88.8 a  |
| 11 CANOPY     | 75 D    | .280 | lb ai/A | PPI   |      |        |        |         |          |                 |
| 11 CLASSIC    | 25 D    | .008 | lb ai/A | EPOST |      |        |        |         |          |                 |
| 11 X-77       | L       | .250 | % v/v   | EPOST |      |        |        |         |          |                 |
| 12 TREFLAN    | 4.0 L   | .850 | lb ai/A | PPI   |      | 0.3 ab | 0.0 b  | 2.3 de  | 35.0 cd  | 81.3 c 88.8 a   |
| 12 LEXONE     | 75 D    | .250 | lb ai/A | PPI   |      |        |        |         |          |                 |
| 12 CLASSIC    | 25 D    | .008 | lb ai/A | EPOST |      |        |        |         |          |                 |
| 12 X-77       | L       | .250 | % v/v   | EPOST |      |        |        |         |          |                 |
| 13 FMC 6285   | 75 D    | .375 | lb ai/A | PPI   |      | 0.3 ab | 0.3 b  | 2.0 de  | 45.0 a-d | 97.5 ab 83.8 a  |
| 14 FMC 6285   | 75 D    | .375 | lb ai/A | PPI   |      | 0.8 ab | 0.3 b  | 3.0 b-e | 40.0 bcd | 100.0 a 100.0 a |
| 14 TREFLAN    | 4.0 L   | .750 | lb ai/A | PPI   |      |        |        |         |          |                 |
| 15 CONTROL    |         |      |         |       |      | 0.0 b  | 0.0 b  | 0.0 e   | 0.0 e    | 0.0 d 0.0 b     |

LSD (.05) =

0.9 0.8 2.8 18.9 10.6 14.4

Standard Dev.=

.613344 .553489 1.93301 13.2370 7.42288 10.0791

CV =

96.84 158.14 44.78 27.87 8.39 11.49

10-3-93 (BROADBEA.DAT)

SUMMARY

VPI & SU

BROADSTRIKE IN SOYBEANS

Project Code: BROADBEA

Location : WHITETHORNE, VA.

Cooperator : E.S. HAGOOD, JR.

By: Dept. Plant Path., Phys.,

| Seed/Crop Code   | INJURY  | INJURY  | OVERALL | AMBTR   | CHEAL   | PANDI   |
|------------------|---------|---------|---------|---------|---------|---------|
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-10    | 0-10    | 0-100   | 0-100   | 0-100   |
| Rating Date      | 6-21-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 |

|                   |        |        |        |        |        |        |
|-------------------|--------|--------|--------|--------|--------|--------|
| Block F           | 0.177  | 1.505  | 0.207  | 3.478  | 3.015  | 2.017  |
| Block Prob(F)     | 0.9112 | 0.2271 | 0.8912 | 0.0241 | 0.0405 | 0.1262 |
| Treatment F       | 1.886  | 1.259  | 3.971  | 6.436  | 45.830 | 24.216 |
| Treatment Prob(F) | 0.0569 | 0.2725 | 0.0003 | 0.0001 | 0.0001 | 0.0001 |

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

10-3-93 (BROADBEA.DAT)

## SUMMARY

VPI & SU  
BROADSTRIKE IN SOYBEANS

Project Code: BROADBEA

Location : WHITETHORNE, VA.

Cooperator : E.S. HAGOOD, JR.

By: Dept. Plant Path., Phys.,

|                  |         |         |
|------------------|---------|---------|
| Weed/Crop Code   | SOLAM   | IPOHE   |
| Rating Data Type | VISUAL  | VISUAL  |
| Rating Unit      | 0-100   | 0-100   |
| Rating Date      | 6-30-93 | 6-30-93 |

| Trt Treatment | Form Fm     | Rate    | Grow  | Appl |          |         |
|---------------|-------------|---------|-------|------|----------|---------|
| No Name       | Amt Ds Rate | Unit    | Stg   | Code |          |         |
| 01 NAF 2      | 7.66 L 1.68 | lb ai/A | PRE   |      | 88.8 abc | 67.5 b  |
| 02 NAF 2      | 7.66 L 1.92 | lb ai/A | PRE   |      | 100.0 a  | 85.0 ab |
| 03 NAF 2      | 7.66 L 2.16 | lb ai/A | PRE   |      | 92.5 abc | 97.5 a  |
| 04 NAF 2      | 7.66 L 1.92 | lb ai/A | PRE   |      | 97.5 ab  | 91.3 ab |
| 04 STORM      | 4.0 L .750  | lb ai/A | EPOST |      |          |         |
| 05 DUAL       | 8.0 L 1.50  | lb ai/A | PRE   |      | 100.0 a  | 100.0 a |
| 05 CANOPY     | 75 D .280   | lb ai/A | PRE   |      |          |         |
| 06 XRM 5313   | 3.65 L .684 | lb ai/A | PPI   |      | 100.0 a  | 100.0 a |
| 07 XRM 5313   | 3.65 L .913 | lb ai/A | PPI   |      | 95.0 abc | 81.3 ab |
| 08 TREFLAN    | 4.0 L .850  | lb ai/A | PPI   |      | 95.0 abc | 100.0 a |
| 08 CANOPY     | 75 D .280   | lb ai/A | PPI   |      |          |         |
| 09 TREFLAN    | 4.0 L .850  | lb ai/A | PPI   |      | 78.8 bc  | 78.8 ab |
| 09 LEXONE     | 75 D .250   | lb ai/A | PPI   |      |          |         |
| 10 XRM 5313   | 3.65 L .913 | lb ai/A | PPI   |      | 100.0 a  | 100.0 a |
| 10 CLASSIC    | 25 D .008   | lb ai/A | EPOST |      |          |         |
| 10 X-77       | L .250      | % v/v   | EPOST |      |          |         |
| 11 TREFLAN    | 4.0 L .850  | lb ai/A | PPI   |      | 85.0 abc | 78.8 ab |
| 11 CANOPY     | 75 D .280   | lb ai/A | PPI   |      |          |         |
| 11 CLASSIC    | 25 D .008   | lb ai/A | EPOST |      |          |         |
| 11 X-77       | L .250      | % v/v   | EPOST |      |          |         |
| 12 TREFLAN    | 4.0 L .850  | lb ai/A | PPI   |      | 77.5 c   | 75.0 ab |
| 12 LEXONE     | 75 D .250   | lb ai/A | PPI   |      |          |         |
| 12 CLASSIC    | 25 D .008   | lb ai/A | EPOST |      |          |         |
| 12 X-77       | L .250      | % v/v   | EPOST |      |          |         |
| 13 FMC 6285   | 75 D .375   | lb ai/A | PPI   |      | 96.3 abc | 92.5 a  |
| 14 FMC 6285   | 75 D .375   | lb ai/A | PPI   |      | 100.0 a  | 100.0 a |
| 14 TREFLAN    | 4.0 L .750  | lb ai/A | PPI   |      |          |         |
| 15 CONTROL    |             |         |       |      | 0.0 d    | 0.0 c   |

LSD (.05) =

16.5 21.1

Standard Dev.=

11.5779 14.7855

CV =

13.30 17.78

10-25-93 (STRMPINN.DD)

SITE DESC.

VPI & SU  
STORM/PINNACLE

Project Code:93 STORM/PINNACLE

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-25-93

Variety ESSEX

Row Width 30"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance SPRING PLOWED, DISKED AND ROTO-TILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture ROSS

% Sand \_\_\_\_\_ % Silt \_\_\_\_\_

% Clay \_\_\_\_\_

Soil Series SILT LOAM

% OM \_\_\_\_\_

2.5

pH \_\_\_\_\_

6.3

CEC \_\_\_\_\_

## Application Information

A

B

C

D

E

F

Date Treated

6-6-93

6-16-93

Time Treated

10:30 AM

1:30 PM

Cloud Cover

30%

20%

Air Temperature

65 F

85 F

Relative Humidity

85%

85%

Wind Speed/Direction

0-3 SW

0-3 SW

Soil Temperature

Soil/Leaf Surface Moisture

MOIST

MOIST

Soil Subsurface Moisture

MOIST

DRY

Soil Tilth

GOOD

GOOD

Crop Stage

VEP

E-POST

Pest Name, Stage &amp; Density

POLPY

2-3 leaf

2"

6"

AMBTR

2 leaf

3"

6"

CHEAL

3-4 leaf

1-1.5"

2-3"

IPOHE

2 leaf

2"

2"

## Application Equipment

Sprayer  
TypeSpeed  
MPHNozzle  
TypeNozzle  
SizeNozzle  
HeightNozzle  
SpacingBoom  
Width

GPA

Carrier

PSI

1. CO/2 BACKPACK

3.1

FLAT FAN

8003

20"

18"

72"

22.5

WATER

32

2. CO/2 BACKPACK

3.1

FLAT FAN

8003

20"

18"

72"

22.5

WATER

32

3.

4.

5.

6.

## Comments

6-6-93 Fall panicum (PANDI)

1-2 leaf

2"

SOLAM

2-3 leaf

2"

6-16-93 Fall panicum (PANDI)

3-5 LEAF

2"

SOLAM

3-5 leaf

3-4"

6-6-93 = SOYBEANS : V1 stage

6-16-93 = SOYBEANS : V2 stage

10-3-93 (STRMPINN.DAT)

## SUMMARY

VPI & SU  
STORM/PINNACLE

Project Code:93 STORM/PINNACLE

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

Weed/Crop Code

INJURY

INJURY

OVERALL

AMBTR

SOLAM

IPOHE

Rating Data Type

VISUAL

VISUAL

VISUAL

VISUAL

VISUAL

VISUAL

Rating Unit

0-10

0-10

0-100

0-100

0-100

0-100

Rating Date

6-21-93

6-30-93

6-30-93

6-30-93

6-30-93

6-30-93

| Trt Treatment  | Form Fm | Rate         | Grow  | Appl |        |         |         |          |          |         |  |
|----------------|---------|--------------|-------|------|--------|---------|---------|----------|----------|---------|--|
| No Name        | Amt Ds  | Rate Unit    | Stg   | Code |        |         |         |          |          |         |  |
| 1 storm        | 4.00 l  | .75 lb ai/A  | epost |      | 2.3 ab | 1.5 abc | 7.5 ab  | 82.5 a   | 100.0 a  | 100.0 a |  |
| 1 coc          | l       | .6245 % v/v  | epost |      |        |         |         |          |          |         |  |
| 2 storm        | 4.00 l  | .75 lb ai/A  | epost |      | 2.3 ab | 1.8 ab  | 7.8 ab  | 66.3 a-d | 100.0 a  | 100.0 a |  |
| 2 pinnacle     | 25 d    | .002 lb ai/A | epost |      |        |         |         |          |          |         |  |
| 2 liquid nitro | l       | 2.50 % v/v   | epost |      |        |         |         |          |          |         |  |
| 2 X-77         | l       | .125 % v/v   | epost |      |        |         |         |          |          |         |  |
| 3 storm        | 4.00 l  | .75 lb ai/A  | epost |      | 3.3 a  | 2.0 ab  | 7.5 ab  | 75.0 ab  | 98.8 a   | 92.5 a  |  |
| 3 pinnacle     | 25 d    | .004 lb ai/A | epost |      |        |         |         |          |          |         |  |
| 3 liquid nitro | l       | 2.50 % v/v   | epost |      |        |         |         |          |          |         |  |
| 3 X-77         | l       | .125 % v/v   | epost |      |        |         |         |          |          |         |  |
| 4 storm        | 4.00 l  | .75 lb ai/A  | epost |      | 1.5 bc | 1.3 abc | 7.0 abc | 70.0 abc | 100.0 a  | 100.0 a |  |
| 4 pinnacle     | 25 d    | .002 lb ai/A | epost |      |        |         |         |          |          |         |  |
| 4 coc          | l       | .625 % v/v   | epost |      |        |         |         |          |          |         |  |
| 5 galaxy       | 3.67 l  | .92 lb ai/A  | epost |      | 2.8 a  | 1.8 ab  | 6.5 a-d | 65.0 a-d | 97.5 ab  | 100.0 a |  |
| 5 coc          | l       | .625 % v/v   | epost |      |        |         |         |          |          |         |  |
| 6 galaxy       | 3.67 l  | .92 lb ai/A  | epost |      | 3.3 a  | 2.8 a   | 7.0 abc | 72.5 abc | 95.0 ab  | 100.0 a |  |
| 6 pinnacle     | 25 d    | .002 lb ai/A | epost |      |        |         |         |          |          |         |  |
| 6 liquid nitro | l       | 2.50 % v/v   | epost |      |        |         |         |          |          |         |  |
| 6 X-77         | l       | .125 % v/v   | epost |      |        |         |         |          |          |         |  |
| 7 storm        | 4.00 l  | .75 lb ai/A  | vep   |      | 0.0 d  | 0.5 bc  | 4.8 d   | 56.3 bcd | 85.0 bc  | 98.8 a  |  |
| 7 coc          | l       | 1.00 % v/v   | vep   |      |        |         |         |          |          |         |  |
| 8 storm        | 4.00 l  | .75 lb ai/A  | epost |      | 2.3 ab | 0.8 bc  | 6.3 bcd | 62.5 a-d | 98.8 a   | 92.5 a  |  |
| 8 coc          | l       | 1.00 % v/v   | epost |      |        |         |         |          |          |         |  |
| 9 storm        | 4.00 l  | .75 lb ai/A  | vep   |      | 0.8 cd | 0.5 bc  | 6.8 abc | 65.0 a-d | 77.5 c   | 93.8 a  |  |
| 9 dash         | l       | 1.00 % v/v   | vep   |      |        |         |         |          |          |         |  |
| 10 storm       | 4.00 l  | .75 lb ai/A  | epost |      | 3.3 a  | 2.0 ab  | 8.3 a   | 85.0 a   | 100.0 a  | 100.0 a |  |
| 10 dash        | l       | 1.00 % v/v   | epost |      |        |         |         |          |          |         |  |
| 11 storm       | 4.00 l  | .75 lb ai/A  | vep   |      | 0.8 cd | 1.5 abc | 6.5 a-d | 66.3 a-d | 100.0 a  | 100.0 a |  |
| 11 dyne-amic   | l       | 1.00 % v/v   | vep   |      |        |         |         |          |          |         |  |
| 12 storm       | 4.00 l  | .75 lb ai/A  | epost |      | 2.5 a  | 1.3 abc | 7.0 abc | 70.0 abc | 100.0 a  | 100.0 a |  |
| 12 dyne-amic   | l       | 1.00 % v/v   | epost |      |        |         |         |          |          |         |  |
| 13 storm       | 4.00 l  | .75 lb ai/A  | vep   |      | 0.5 d  | 0.0 c   | 5.3 cd  | 47.5 cd  | 88.8 abc | 93.8 a  |  |
| 13 sylguard    | l       | 1.00 % v/v   | vep   |      |        |         |         |          |          |         |  |

10-3-93 (STRMPINN.DAT)

## SUMMARY

VPI & SU  
STORM/PINNACLEProject Code: 93 STORM/PINNACLE  
Cooperator : E.S. HAGOODLocation : WHITETHORNE, VA.  
By: Dept. Plant Path., Phys.,Seed/Crop Code  
Rating Data Type  
Rating Unit  
Rating Date

| INJURY  | INJURY  | OVERALL | AMBTR   | SOLAM   | IPOHE   |
|---------|---------|---------|---------|---------|---------|
| VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| 0-10    | 0-10    | 0-100   | 0-100   | 0-100   | 0-100   |
| 6-21-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 |

| Trt Treatment     | Form Fm | Rate    | Grow    | Appl  |      |         |         |         |          |                 |
|-------------------|---------|---------|---------|-------|------|---------|---------|---------|----------|-----------------|
| No Name           | Amt     | Ds Rate | Unit    | Stg   | Code |         |         |         |          |                 |
| 14 storm          | 4.00 l  | .75     | lb ai/A | epost |      | 3.0 a   | 1.8 ab  | 6.5 a-d | 71.3 abc | 95.0 ab 100.0 a |
| 14 sylguard       |         | l 1.00  | % v/v   | epost |      |         |         |         |          |                 |
| 15 storm          | 4.00 l  | .75     | lb ai/A | vep   |      | 1.0 cd  | 1.0 bc  | 5.3 cd  | 43.8 d   | 100.0 a 100.0 a |
| 15 X-77           |         | l .50   | % v/v   | vep   |      |         |         |         |          |                 |
| 16 storm          | 4.00 l  | .75     | lb ai/A | epost |      | 2.3 ab  | 1.5 abc | 7.3 ab  | 77.5 ab  | 97.5 ab 92.5 a  |
| 16 X-77           |         | l .50   | % v/v   | epost |      |         |         |         |          |                 |
| 17 pursuit        | 1.50 l  | .0625   | lb ai/A | vep   |      | 0.8 cd  | 1.5 abc | 7.5 ab  | 71.3 abc | 100.0 a 100.0 a |
| 17 X-77           |         | l .500  | % v/v   | vep   |      |         |         |         |          |                 |
| 18 control        |         |         |         |       |      | 0.0 d   | 0.0 c   | 0.0 e   | 0.0 e    | 0.0 d 0.0 b     |
| LSD (.05) =       |         |         |         |       |      | 0.9     | 1.3     | 1.7     | 21.9     | 12.0 10.8       |
| Standard Dev.=    |         |         |         |       |      | .622517 | .890369 | 1.16363 | 15.3340  | 8.37530 7.59068 |
| CV =              |         |         |         |       |      | 34.75   | 68.93   | 18.29   | 24.05    | 9.23 8.21       |
| Block F           |         |         |         |       |      | 9.880   | 1.186   | 2.202   | 1.483    | 0.493 0.247     |
| Block Prob(F)     |         |         |         |       |      | 0.0001  | 0.3245  | 0.0991  | 0.2303   | 0.6885 0.8630   |
| Treatment F       |         |         |         |       |      | 13.453  | 2.643   | 9.932   | 6.192    | 31.491 37.639   |
| Treatment Prob(F) |         |         |         |       |      | 0.0001  | 0.0038  | 0.0001  | 0.0001   | 0.0001 0.0001   |

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

10-3-93 (STRMPINN.DAT)

SUMMARY

VPI & SU  
STORM/PINNACLEProject Code:93 STORM/PINNACLE  
Cooperator :E.S. HAGOODLocation :WHITETHORNE, VA.  
By:Dept. Plant Path., Phys.,

|                  |         |         |
|------------------|---------|---------|
| Weed/Crop Code   | POLPY   | CHEAL   |
| Rating Data Type | VISUAL  | VISUAL  |
| Rating Unit      | 0-100   | 0-100   |
| Rating Date      | 6-30-93 | 6-30-93 |

| Trt No | Treatment Name | Form | Fm | Rate  | Unit    | Grow Stg | Appl Code |         |         |
|--------|----------------|------|----|-------|---------|----------|-----------|---------|---------|
| 1      | storm          | 4.00 | l  | .75   | lb ai/A | epost    |           | 100.0 a | 100.0 a |
| 1      | coc            |      | l  | .6245 | % v/v   | epost    |           |         |         |
| 2      | storm          | 4.00 | l  | .75   | lb ai/A | epost    |           | 100.0 a | 100.0 a |
| 2      | pinnacle       | 25   | d  | .002  | lb ai/A | epost    |           |         |         |
| 2      | liquid nitro   |      | l  | 2.50  | % v/v   | epost    |           |         |         |
| 2      | X-77           |      | l  | .125  | % v/v   | epost    |           |         |         |
| 3      | storm          | 4.00 | l  | .75   | lb ai/A | epost    |           | 100.0 a | 100.0 a |
| 3      | pinnacle       | 25   | d  | .004  | lb ai/A | epost    |           |         |         |
| 3      | liquid nitro   |      | l  | 2.50  | % v/v   | epost    |           |         |         |
| 3      | X-77           |      | l  | .125  | % v/v   | epost    |           |         |         |
| 4      | storm          | 4.00 | l  | .75   | lb ai/A | epost    |           | 100.0 a | 100.0 a |
| 4      | pinnacle       | 25   | d  | .002  | lb ai/A | epost    |           |         |         |
| 4      | coc            |      | l  | .625  | % v/v   | epost    |           |         |         |
| 5      | galaxy         | 3.67 | l  | .92   | lb ai/A | epost    |           | 100.0 a | 100.0 a |
| 5      | coc            |      | l  | .625  | % v/v   | epost    |           |         |         |
| 6      | galaxy         | 3.67 | l  | .92   | lb ai/A | epost    |           | 100.0 a | 100.0 a |
| 6      | pinnacle       | 25   | d  | .002  | lb ai/A | epost    |           |         |         |
| 6      | liquid nitro   |      | l  | 2.50  | % v/v   | epost    |           |         |         |
| 6      | X-77           |      | l  | .125  | % v/v   | epost    |           |         |         |
| 7      | storm          | 4.00 | l  | .75   | lb ai/A | vep      |           | 98.8 ab | 87.5 b  |
| 7      | coc            |      | l  | 1.00  | % v/v   | vep      |           |         |         |
| 8      | storm          | 4.00 | l  | .75   | lb ai/A | epost    |           | 100.0 a | 100.0 a |
| 8      | coc            |      | l  | 1.00  | % v/v   | epost    |           |         |         |
| 9      | storm          | 4.00 | l  | .75   | lb ai/A | vep      |           | 97.5 b  | 95.0 ab |
| 9      | dash           |      | l  | 1.00  | % v/v   | vep      |           |         |         |
| 10     | storm          | 4.00 | l  | .75   | lb ai/A | epost    |           | 100.0 a | 100.0 a |
| 10     | dash           |      | l  | 1.00  | % v/v   | epost    |           |         |         |
| 11     | storm          | 4.00 | l  | .75   | lb ai/A | vep      |           | 100.0 a | 100.0 a |
| 11     | dyne-amic      |      | l  | 1.00  | % v/v   | vep      |           |         |         |
| 12     | storm          | 4.00 | l  | .75   | lb ai/A | epost    |           | 100.0 a | 100.0 a |
| 12     | dyne-amic      |      | l  | 1.00  | % v/v   | epost    |           |         |         |
| 13     | storm          | 4.00 | l  | .75   | lb ai/A | vep      |           | 100.0 a | 100.0 a |
| 13     | sylguard       |      | l  | 1.00  | % v/v   | vep      |           |         |         |

10-3-93 (STRMPINN.DAT)

## SUMMARY

VPI & SU  
STORM/PINNACLEProject Code:93 STORM/PINNACLE  
Cooperator :E.S. HAGOODLocation :WHITETHORNE, VA.  
By:Dept. Plant Path., Phys.,

|                  |         |         |
|------------------|---------|---------|
| Weed/Crop Code   | POLPY   | CHEAL   |
| Rating Data Type | VISUAL  | VISUAL  |
| Rating Unit      | 0-100   | 0-100   |
| Rating Date      | 6-30-93 | 6-30-93 |

| Trt Treatment | Form Fm      | Rate    | Grow  | Appl |         |         |
|---------------|--------------|---------|-------|------|---------|---------|
| No Name       | Amt Ds Rate  | Unit    | Stg   | Code |         |         |
| 14 storm      | 4.00 l .75   | lb ai/A | epost |      | 100.0 a | 100.0 a |
| 14 sylguard   | l 1.00       | % v/v   | epost |      |         |         |
| 15 storm      | 4.00 l .75   | lb ai/A | vep   |      | 100.0 a | 97.5 a  |
| 15 X-77       | l .50        | % v/v   | vep   |      |         |         |
| 16 storm      | 4.00 l .75   | lb ai/A | epost |      | 100.0 a | 100.0 a |
| 16 X-77       | l .50        | % v/v   | epost |      |         |         |
| 17 pursuit    | 1.50 l .0625 | lb ai/A | vep   |      | 100.0 a | 100.0 a |
| 17 X-77       | l .500       | % v/v   | vep   |      |         |         |
| 18 control    |              |         |       |      | 0.0 c   | 0.0 c   |

|                |         |         |
|----------------|---------|---------|
| LSD (.05) =    | 1.8     | 9.1     |
| Standard Dev.= | 1.28624 | 6.35720 |
| CV =           | 1.36    | 6.81    |

|                   |          |        |
|-------------------|----------|--------|
| Block F           | 1.889    | 1.558  |
| Block Prob(F)     | 0.1432   | 0.2109 |
| Treatment F       | 1338.284 | 54.655 |
| Treatment Prob(F) | 0.0001   | 0.0001 |

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

- End of Report -

10-25-93 (PSTSIL93.DD)

SITE DESC.

VPI &amp; SU

Poast with New Silicone-Based Additives

Project Code:PWNS-BA93

Location :Whitethorne, Va.

Cooperator :E.S. Hagood, Jr.

By:Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-27-93 Variety ESSEX Row Width 30"  
 Design RCB No. Reps. 4 Plot Size 6 X 25 FEET  
 Field Preparation and Plot Maintenance SPRING PLOWED,DISKED AND ROTO-TILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand

% Silt

% Clay

Soil Series ROSS

% OM

2.5

pH

6.3

CEC

## Application Information

A

B

C

D

E

F

|                            |         |          |  |  |  |  |
|----------------------------|---------|----------|--|--|--|--|
| Date Treated               | 6-17-93 | 6-21-93  |  |  |  |  |
| Time Treated               | 9-10 AM | 10-11 AM |  |  |  |  |
| Cloud Cover                | 0%      | 0%       |  |  |  |  |
| Air Temperature            | 80 F    | 83 F     |  |  |  |  |
| Relative Humidity          | 80%     | 80%      |  |  |  |  |
| Wind Speed/Direction       | 0-3 SW  | 0-3 SW   |  |  |  |  |
| Soil Temperature           |         |          |  |  |  |  |
| Soil/Leaf Surface Moisture | DRY     | DRY      |  |  |  |  |
| Soil Subsurface Moisture   | MOIST   | MOIST    |  |  |  |  |
| Soil Tilth                 |         |          |  |  |  |  |
| Crop Stage                 | E-POST  | L-POST   |  |  |  |  |
| Pest Name, Stage & Density |         |          |  |  |  |  |
| SORHA 3-4 LEAF             | 8-12"   |          |  |  |  |  |
| SORHA 4-5 LEAF             |         | 11-15"   |  |  |  |  |

## Application Equipment

|    | Sprayer Type  | Speed MPH | Nozzle Type | Nozzle Size | Nozzle Height | Nozzle Spacing | Boom Width | GPA  | Carrier | PSI |
|----|---------------|-----------|-------------|-------------|---------------|----------------|------------|------|---------|-----|
| 1. | CO/2 BACKPACK | 3.1       | FLAT FAN    | 8003        | 20"           | 18"            | 72"        | 22.5 | WATER   | 34  |
| 2. | CO/2 BACKPACK | 3.1       | FLAT FAN    | 8003        | 20"           | 18"            | 72"        | 22.5 | WATER   | 34  |
| 3. |               |           |             |             |               |                |            |      |         |     |
| 4. |               |           |             |             |               |                |            |      |         |     |
| 5. |               |           |             |             |               |                |            |      |         |     |
| 6. |               |           |             |             |               |                |            |      |         |     |

## Comments

6-17-93 = SOYBEANS : V2 stage

6-21-93 = SOYBEANS : V2 stage

10-3-93 (PSTSIL93.DAT)

## SUMMARY

VPI &amp; SU

Poast with New Silicone-Based Additives

Project Code:PWNS-BA93

Location :Whitethorne, Va.

Cooperator :E.S. Hagood, Jr.

By:Dept. Plant Path., Phys.,

Need/Crop Code

SORHA

Rating Data Type

VISUAL

Rating Unit

0-100

Rating Date

7-1-93

| Trt No | Treatment Name | Form Amt | Fm' Ds | Rate Rate | Unit    | Grow Stg | Appl Code |          |
|--------|----------------|----------|--------|-----------|---------|----------|-----------|----------|
| 01     | POAST          | 1.5      | 1      | .094      | lb ai/A | EPOST    |           | 65.0 bcd |
| 02     | POAST          | 1.5      | 1      | .188      | lb ai/A | LPOST    |           | 56.3 d   |
| 03     | POAST          | 1.5      | 1      | .094      | lb ai/A | EPOST    |           | 100.0 a  |
| 03     | COC            |          | 1      | 1.0       | % v/v   | EPOST    |           |          |
| 04     | POAST          | 1.5      | 1      | .188      | lb ai/A | LPOST    |           | 82.5 abc |
| 04     | COC            |          | 1      | 1.0       | % v/v   | LPOST    |           |          |
| 05     | POAST          | 1.5      | 1      | .094      | lb ai/A | EPOST    |           | 96.3 a   |
| 05     | DASH           |          | 1      | 0.5       | % v/v   | EPOST    |           |          |
| 06     | POAST          | 1.5      | 1      | .188      | lb ai/A | LPOST    |           | 86.3 a   |
| 06     | DASH           |          | 1      | 0.5       | % v/v   | LPOST    |           |          |
| 07     | POAST          | 1.5      | 1      | .094      | lb ai/A | EPOST    |           | 100.0 a  |
| 07     | DYNE-AMIC      |          | 1      | 0.5       | % v/v   | EPOST    |           |          |
| 08     | POAST          | 1.5      | 1      | .188      | lb ai/A | LPOST    |           | 80.0 abc |
| 08     | DYNE-AMIC      |          | 1      | 0.5       | % v/v   | LPOST    |           |          |
| 09     | POAST          | 1.5      | 1      | .094      | lb ai/A | EPOST    |           | 93.8 a   |
| 09     | SYLGUARD       |          | 1      | 0.5       | % v/v   | EPOST    |           |          |
| 10     | POAST          | 1.5      | 1      | .188      | lb ai/A | LPOST    |           | 62.5 cd  |
| 10     | SYLGUARD       |          | 1      | 0.5       | % v/v   | LPOST    |           |          |
| 11     | POAST          | 1.5      | 1      | .094      | lb ai/A | EPOST    |           | 90.0 a   |
| 11     | X-77           |          | 1      | 0.5       | % v/v   | EPOST    |           |          |
| 12     | POAST          | 1.5      | 1      | .188      | lb ai/A | LPOST    |           | 100.0 a  |
| 12     | X-77           |          | 1      | 0.5       | % v/v   | LPOST    |           |          |
| 13     | BUGLE          | .67      | 1      | .10       | lb ai/A | EPOST    |           | 100.0 a  |
| 13     | COC            |          | 1      | 1.0       | % v/v   | EPOST    |           |          |
| 14     | BUGLE          | .67      | 1      | .06       | lb ai/A | EPOST    |           | 100.0 a  |
| 14     | FUSILADE       | 1.0      | 1      | .094      | lb ai/A | EPOST    |           |          |
| 14     | COC            |          | 1      | 1.0       | % v/v   | EPOST    |           |          |
| 15     | BUGLE          | .67      | 1      | .10       | lb ai/A | LPOST    |           | 83.8 ab  |
| 15     | COC            |          | 1      | 1.0       | % v/v   | LPOST    |           |          |

10-3-93 (PSTSIL93.DAT)

SUMMARY

VPI &amp; SU

Poast with New Silicone-Based Additives

Project Code:PWNS-BA93

Location :Whitethorne, Va.

Cooperator :E.S. Hagood, Jr.

By:Dept. Plant Path., Phys.,

Weed/Crop Code

SORHA

Rating Data Type

VISUAL

Rating Unit

0-100

Rating Date

7-1-93

| Trt No | Treatment Name    | Form Amt | Fm Ds | Rate Rate | Unit Unit | Grow Stg | Appl Code |          |
|--------|-------------------|----------|-------|-----------|-----------|----------|-----------|----------|
| 16     | BUGLE             | .67      | 1     | .06       | lb ai/A   | LPOST    |           | 82.5 abc |
| 16     | FUSILADE          | 1.0      | 1     | .094      | lb ai/A   | LPOST    |           |          |
| 16     | COC               |          | 1     | 1.0       | % v/v     | LPOST    |           |          |
| 17     | CONTROL           |          |       |           |           |          |           | 0.0 e    |
|        | LSD (.05)         | =        |       |           |           |          |           | 18.5     |
|        | Standard Dev.=    |          |       |           |           |          |           | 12.9123  |
|        | CV                | =        |       |           |           |          |           | 15.92    |
|        | Block F           |          |       |           |           |          |           | 0.631    |
|        | Block Prob(F)     |          |       |           |           |          |           | 0.5984   |
|        | Treatment F       |          |       |           |           |          |           | 15.135   |
|        | Treatment Prob(F) |          |       |           |           |          |           | 0.0001   |

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

- End of Report -

10-25-93 (STS9122.DD)

SITE DESC.

VPI &amp; SU

SULFONYLUREA TOLERANT SOYBEANS - 9122

Project Code: STS912293.DAT

Location : WHITETHORNE, VA.

Cooperator : E.S. HAGOOD, JR.

By: Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-27-93

Variety STS 9122

Row Width 30"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance SPRING PLOWED, DISKED AND ROTO-TILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand

% Silt

% Clay

Soil Series ROSS

% OM

2.5

pH

6.3

CEC

## Application Information

A

B

C

D

E

F

Date Treated

5-26-93

6-17-93

Time Treated

9 AM

8-9 AM

Cloud Cover

30%

0%

Air Temperature

73 F

78 F

Relative Humidity

75%

80%

Wind Speed/Direction

3-5 SW

0-3 SW

Soil Temperature

Soil/Leaf Surface Moisture

MOIST

DRY

Soil Subsurface Moisture

MOIST

MOIST

Soil Tilth

GOOD

Crop Stage

PRE

EPOST

Pest Name, Stage &amp; Density

AMBTR

2-4 LEAF

3-5"

IPOHE

2-3 LEAF

2-3"

PANDI

2-4 LEAF

3-5"

SIDSP

2-4 LEAF

1-2"

## Application Equipment

Sprayer  
TypeSpeed  
MPHNozzle  
TypeNozzle  
SizeNozzle  
HeightNozzle  
SpacingBoom  
Width

GPA

Carrier PSI

1. CO/2 BACKPACK

3.1

FLAT FAN

8003

20"

18"

72"

22.5

WATER

34

2. CO/2 BACKPACK

3.1

FLAT FAN

8003

20"

18"

72"

22.5

WATER

34

3.

4.

5.

6.

## Comments

6-16-93 = SOYBEANS : V2 stage

10-4-93 (STS9122.DAT)

SUMMARY

VPI &amp; SU

SULFONYLUREA TOLERANT SOYBEANS - 9122

Project Code: STS912293.DAT

Location : WHITETHORNE, VA.

Cooperator : E.S. HAGOOD, JR.

By: Dept. Plant Path., Phys.,

|                  |         |         |         |         |         |         |
|------------------|---------|---------|---------|---------|---------|---------|
| Weed/Crop Code   | INJURY  | OVERALL | SORHA   | AMBTR   | IPOHE   | SIDSP   |
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-10    | 0-100   | 0-100   | 0-100   | 0-100   |
| Rating Date      | 6-21-93 | 6-21-93 | 6-21-93 | 6-21-93 | 6-21-93 | 6-21-93 |

| Trt Treatment     | Form Fm | Rate         | Grow  | Appl |         |         |         |         |         |         |
|-------------------|---------|--------------|-------|------|---------|---------|---------|---------|---------|---------|
| No Name           | Amt Ds  | Rate Unit    | Stg   | Code |         |         |         |         |         |         |
| 01 GEMINI         | 60 D    | .500 lb ai/A | PRE   |      | 0.0 c   | 6.0 b   | 55.0 c  | 60.0 b  | 71.3 c  | 83.8 b  |
| 01 DUAL           | 8.0 L   | 2.00 lb ai/A | PRE   |      |         |         |         |         |         |         |
| 02 GEMINI         | 60 D    | .280 lb ai/A | PRE   |      | 1.0 b   | 7.8 a   | 68.8 b  | 90.0 a  | 97.5 a  | 96.3 a  |
| 02 CLASSIC        | 25 D    | .008 lb ai/A | EPOST |      |         |         |         |         |         |         |
| 02 COC            | L       | 1.00 % v/v   | EPOST |      |         |         |         |         |         |         |
| 03 CLASSIC        | 25 D    | .008 lb ai/A | EPOST |      | 0.5 bc  | 8.0 a   | 92.5 a  | 82.5 a  | 85.0 b  | 88.8 ab |
| 03 PINNACLE       | 25 D    | .004 lb ai/A | EPOST |      |         |         |         |         |         |         |
| 03 ASSURE II      | .88 L   | .055 lb ai/A | EPOST |      |         |         |         |         |         |         |
| 03 COC            | L       | 1.00 % v/v   | EPOST |      |         |         |         |         |         |         |
| 04 CLASSIC        | 25 D    | .012 lb ai/A | EPOST |      | 0.5 bc  | 8.5 a   | 96.3 a  | 90.0 a  | 92.5 ab | 88.8 ab |
| 04 PINNACLE       | 25 D    | .004 lb ai/A | EPOST |      |         |         |         |         |         |         |
| 04 ASSURE II      | .88 L   | .055 lb ai/A | EPOST |      |         |         |         |         |         |         |
| 04 COC            | L       | 1.00 % v/v   | EPOST |      |         |         |         |         |         |         |
| 05 STORM          | 4.0 L   | .750 lb ai/A | EPOST |      | 2.0 a   | 8.3 a   | 92.5 a  | 83.8 a  | 96.3 a  | 97.5 a  |
| 05 ASSURE II      | .88 L   | .055 lb ai/A | EPOST |      |         |         |         |         |         |         |
| 05 X-77           | L       | .250 % v/v   | EPOST |      |         |         |         |         |         |         |
| 06 CONTROL        |         |              |       |      | 0.0 c   | 0.0 c   | 0.0 d   | 0.0 c   | 0.0 d   | 0.0 c   |
| LSD (.05) =       |         |              |       |      | 0.9     | 0.8     | 9.6     | 13.4    | 8.8     | 8.6     |
| Standard Dev.=    |         |              |       |      | .577351 | .537484 | 6.34648 | 8.87803 | 5.86894 | 5.72519 |
| CV =              |         |              |       |      | 86.60   | 8.38    | 9.40    | 13.11   | 7.96    | 7.55    |
| Block F           |         |              |       |      | 1.000   | 4.808   | 4.414   | 3.432   | 1.653   | 1.102   |
| Block Prob(F)     |         |              |       |      | 0.4199  | 0.0153  | 0.0205  | 0.0444  | 0.2195  | 0.3791  |
| Treatment F       |         |              |       |      | 6.800   | 147.692 | 134.876 | 62.054  | 162.435 | 171.661 |
| Treatment Prob(F) |         |              |       |      | 0.0017  | 0.0001  | 0.0001  | 0.0001  | 0.0001  | 0.0001  |

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

10-4-93 (STS9122.DAT)

## SUMMARY

VPI &amp; SU

SULFONYLUREA TOLERANT SOYBEANS - 9122

Project Code: STS912293.DAT

Location : WHITETHORNE, VA.

Cooperator : E.S. HAGOOD, JR.

By: Dept. Plant Path., Phys.,

|                  |        |         |        |        |        |        |
|------------------|--------|---------|--------|--------|--------|--------|
| Weed/Crop Code   | INJURY | OVERALL | AMBTR  | PANDI  | SIDSP  | POLPY  |
| Rating Data Type | VISUAL | VISUAL  | VISUAL | VISUAL | VISUAL | VISUAL |
| Rating Unit      | 0-10   | 0-10    | 0-100  | 0-100  | 0-100  | 0-100  |
| Rating Date      | 9-2-93 | 9-2-93  | 9-2-93 | 9-2-93 | 9-2-93 | 9-2-93 |

| Trt Treatment     | Form Fm | Rate         | Grow  | Appl |        |         |         |         |         |         |
|-------------------|---------|--------------|-------|------|--------|---------|---------|---------|---------|---------|
| No Name           | Amt Ds  | Rate Unit    | Stg   | Code |        |         |         |         |         |         |
| 01 GEMINI         | 60 D    | .500 lb ai/A | PRE   |      | 0.0 a  | 4.8 c   | 50.0 c  | 75.0 a  | 72.5 b  | 71.3 c  |
| 01 DUAL           | 8.0 L   | 2.00 lb ai/A | PRE   |      |        |         |         |         |         |         |
| 02 GEMINI         | 60 D    | .280 lb ai/A | PRE   |      | 0.0 a  | 6.8 b   | 76.3 b  | 60.0 b  | 72.5 b  | 78.8 b  |
| 02 CLASSIC        | 25 D    | .008 lb ai/A | EPOST |      |        |         |         |         |         |         |
| 02 COC            | L       | 1.00 % v/v   | EPOST |      |        |         |         |         |         |         |
| 03 CLASSIC        | 25 D    | .008 lb ai/A | EPOST |      | 0.0 a  | 8.5 a   | 87.5 a  | 82.5 a  | 71.3 b  | 81.3 ab |
| 03 PINNACLE       | 25 D    | .004 lb ai/A | EPOST |      |        |         |         |         |         |         |
| 03 ASSURE II      | .88 L   | .055 lb ai/A | EPOST |      |        |         |         |         |         |         |
| 03 COC            | L       | 1.00 % v/v   | EPOST |      |        |         |         |         |         |         |
| 04 CLASSIC        | 25 D    | .012 lb ai/A | EPOST |      | 0.0 a  | 6.8 b   | 80.0 b  | 82.5 a  | 68.8 b  | 81.3 ab |
| 04 PINNACLE       | 25 D    | .004 lb ai/A | EPOST |      |        |         |         |         |         |         |
| 04 ASSURE II      | .88 L   | .055 lb ai/A | EPOST |      |        |         |         |         |         |         |
| 04 COC            | L       | 1.00 % v/v   | EPOST |      |        |         |         |         |         |         |
| 05 STORM          | 4.0 L   | .750 lb ai/A | EPOST |      | 0.0 a  | 5.3 c   | 53.8 c  | 83.8 a  | 85.0 a  | 86.3 a  |
| 05 ASSURE II      | .88 L   | .055 lb ai/A | EPOST |      |        |         |         |         |         |         |
| 05 X-77           | L       | .250 % v/v   | EPOST |      |        |         |         |         |         |         |
| 06 CONTROL        |         |              |       |      | 0.0 a  | 0.0 d   | 0.0 d   | 0.0 c   | 0.0 c   | 0.0 d   |
| LSD (.05) =       |         |              |       |      | 0      | 0.8     | 7.2     | 9.0     | 6.9     | 6.5     |
| Standard Dev.=    |         |              |       |      | 0      | .537484 | 4.77261 | 5.95702 | 4.56436 | 4.33814 |
| CV =              |         |              |       |      | 0      | 10.08   | 8.24    | 9.31    | 7.40    | 6.53    |
| Block F           |         |              |       |      | 0.000  | 1.923   | 1.768   | 0.812   | 1.200   | 1.089   |
| Block Prob(F)     |         |              |       |      | 1.0000 | 0.1692  | 0.1963  | 0.5068  | 0.3436  | 0.3842  |
| Treatment F       |         |              |       |      | 0.000  | 118.615 | 180.293 | 119.654 | 181.400 | 230.402 |
| Treatment Prob(F) |         |              |       |      | 1.0000 | 0.0001  | 0.0001  | 0.0001  | 0.0001  | 0.0001  |

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

- End of Report -

10-25-93 (STS9351.DD)

SITE DESC.

VPI &amp; SU

SULFONYLUREA TOLERANT SOYBEANS - 9351

Project Code: STS935193.DAT

Location : WHITETHORNE, VA.

Cooperator : E.S. HAGOOD, JR.

By: Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-27-93 Variety STS 9351 Row Width 30"  
 Design RCB No. Reps. 4 Plot Size 6 X 25 FEET  
 Field Preparation and Plot Maintenance SPRING PLOWED, DISKED AND ROTO-TILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand \_\_\_\_\_ % Silt \_\_\_\_\_

% Clay \_\_\_\_\_

Soil Series ROSS

% OM \_\_\_\_\_

2.5 \_\_\_\_\_

pH \_\_\_\_\_

6.3 \_\_\_\_\_

CEC \_\_\_\_\_

## Application Information

A

B

C

D

E

F

|                            |          |         |  |  |  |  |
|----------------------------|----------|---------|--|--|--|--|
| Date Treated               | 5-26-93  | 6-17-93 |  |  |  |  |
| Time Treated               | 9 AM     | 8-9 AM  |  |  |  |  |
| Cloud Cover                | 30%      | 0%      |  |  |  |  |
| Air Temperature            | 73 F     | 78 F    |  |  |  |  |
| Relative Humidity          | 75%      | 80%     |  |  |  |  |
| Wind Speed/Direction       | 3-5 SW   | 0-3 SW  |  |  |  |  |
| Soil Temperature           |          |         |  |  |  |  |
| Soil/Leaf Surface Moisture | MOIST    | DRY     |  |  |  |  |
| Soil Subsurface Moisture   | MOIST    | MOIST   |  |  |  |  |
| Soil Tilth                 | GOOD     |         |  |  |  |  |
| Crop Stage                 | PRE      | EPOST   |  |  |  |  |
| Pest Name, Stage & Density |          |         |  |  |  |  |
| AMBTR                      | 2-4 LEAF | 3-5"    |  |  |  |  |
| IPOHE                      | 2-3 LEAF | 2-3"    |  |  |  |  |
| SORHA                      | 3-4 LEAF | 8-12"   |  |  |  |  |
| SIDSP                      | 2-4 LEAF | 1-2"    |  |  |  |  |

## Application Equipment

|    | Sprayer Type  | Speed MPH | Nozzle Type | Nozzle Size | Nozzle Height | Nozzle Spacing | Boom Width | GPA  | Carrier | PSI |
|----|---------------|-----------|-------------|-------------|---------------|----------------|------------|------|---------|-----|
| 1. | CO/2 BACKPACK | 3.1       | FLAT FAN    | 8003        | 20"           | 18"            | 72"        | 22.5 | WATER   | 34  |
| 2. | CO/2 BACKPACK | 3.1       | FLAT FAN    | 8003        | 20"           | 18"            | 72"        | 22.5 | WATER   | 34  |
| 3. |               |           |             |             |               |                |            |      |         |     |
| 4. |               |           |             |             |               |                |            |      |         |     |
| 5. |               |           |             |             |               |                |            |      |         |     |
| 6. |               |           |             |             |               |                |            |      |         |     |

## Comments

6-16-93 = SOYBEANS : V2 stage

10-24-93 (STS9351.DAT)

SUMMARY

VPI &amp; SU

SULFONYLUREA TOLERANT SOYBEANS - 9351

Project Code: STS935193.DAT

Location : WHITETHORNE, VA.

Cooperator : E.S. HAGOOD, JR.

By: Dept. Plant Path., Phys.,

|                  |         |         |         |         |         |         |
|------------------|---------|---------|---------|---------|---------|---------|
| Weed/Crop Code   | INJURY  | OVERALL | SORHA   | AMBTR   | IPOHE   | SIDSP   |
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-10    | 0-100   | 0-100   | 0-100   | 0-100   |
| Rating Date      | 6-21-93 | 6-21-93 | 6-21-93 | 6-21-93 | 6-21-93 | 6-21-93 |

| Trt Treatment     | Form Fm | Rate         | Grow  | Appl |         |         |         |          |         |         |
|-------------------|---------|--------------|-------|------|---------|---------|---------|----------|---------|---------|
| No Name           | Amt Ds  | Rate Unit    | Stg   | Code |         |         |         |          |         |         |
| 01 GEMINI         | 60 D    | .500 lb ai/A | PRE   |      | 0.3 b   | 6.0 b   | 55.0 c  | 82.5 c   | 62.5 b  | 78.8 b  |
| 01 DUAL           | 8.0 L   | 2.00 lb ai/A | PRE   |      |         |         |         |          |         |         |
| 02 GEMINI         | 60 D    | .280 lb ai/A | PRE   |      | 0.3 b   | 8.0 a   | 78.8 b  | 91.3 abc | 91.3 a  | 88.8 a  |
| 02 CLASSIC        | 25 D    | .008 lb ai/A | EPOST |      |         |         |         |          |         |         |
| 02 COC            | L       | 1.00 % v/v   | EPOST |      |         |         |         |          |         |         |
| 03 CLASSIC        | 25 D    | .008 lb ai/A | EPOST |      | 1.0 ab  | 9.0 a   | 96.3 a  | 93.8 ab  | 96.3 a  | 93.8 a  |
| 03 PINNACLE       | 25 D    | .004 lb ai/A | EPOST |      |         |         |         |          |         |         |
| 03 ASSURE II      | .88 L   | .055 lb ai/A | EPOST |      |         |         |         |          |         |         |
| 03 COC            | L       | 1.00 % v/v   | EPOST |      |         |         |         |          |         |         |
| 04 CLASSIC        | 25 D    | .012 lb ai/A | EPOST |      | 0.3 b   | 9.0 a   | 97.5 a  | 96.3 a   | 95.0 a  | 95.0 a  |
| 04 PINNACLE       | 25 D    | .004 lb ai/A | EPOST |      |         |         |         |          |         |         |
| 04 ASSURE II      | .88 L   | .055 lb ai/A | EPOST |      |         |         |         |          |         |         |
| 04 COC            | L       | 1.00 % v/v   | EPOST |      |         |         |         |          |         |         |
| 05 STORM          | 4.0 L   | .750 lb ai/A | EPOST |      | 2.0 a   | 8.0 a   | 88.8 ab | 85.0 bc  | 92.5 a  | 93.8 a  |
| 05 ASSURE II      | .88 L   | .055 lb ai/A | EPOST |      |         |         |         |          |         |         |
| 05 X-77           | L       | .250 % v/v   | EPOST |      |         |         |         |          |         |         |
| 06 CONTROL        |         |              |       |      | 0.0 b   | 0.0 c   | 0.0 d   | 0.0 d    | 0.0 c   | 0.0 c   |
| LSD (.05) =       |         |              |       |      | 1.1     | 1.0     | 13.2    | 9.2      | 12.2    | 8.1     |
| Standard Dev.=    |         |              |       |      | .720725 | .666667 | 8.76784 | 6.07248  | 8.09664 | 5.37484 |
| CV =              |         |              |       |      | 115.32  | 10.00   | 12.64   | 8.12     | 11.10   | 7.17    |
| Block F           |         |              |       |      | 0.294   | 1.000   | 2.290   | 2.966    | 1.038   | 0.481   |
| Block Prob(F)     |         |              |       |      | 0.8290  | 0.4199  | 0.1200  | 0.0657   | 0.4041  | 0.7005  |
| Treatment F       |         |              |       |      | 4.380   | 106.800 | 72.805  | 148.571  | 87.585  | 191.942 |
| Treatment Prob(F) |         |              |       |      | 0.0117  | 0.0001  | 0.0001  | 0.0001   | 0.0001  | 0.0001  |

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

10-24-93 (STS9351.DAT)

SUMMARY

VPI &amp; SU

SULFONYLUREA TOLERANT SOYBEANS - 9351

Project Code: STS935193.DAT

Location : WHITETHORNE, VA.

Cooperator : E.S. HAGOOD, JR.

By: Dept. Plant Path., Phys.,

|                  |        |         |        |        |        |
|------------------|--------|---------|--------|--------|--------|
| Weed/Crop Code   | INJURY | OVERALL | AMBTR  | PANDI  | SIDSP  |
| Rating Data Type | VISUAL | VISUAL  | VISUAL | VISUAL | VISUAL |
| Rating Unit      | 0-10   | 0-10    | 0-100  | 0-100  | 0-100  |
| Rating Date      | 9-2-93 | 9-2-93  | 9-2-93 | 9-2-93 | 9-2-93 |

| Trt Treatment     | Form Fm | Rate         | Grow  | Appl |        |         |         |         |         |
|-------------------|---------|--------------|-------|------|--------|---------|---------|---------|---------|
| No Name           | Amt Ds  | Rate Unit    | Stg   | Code |        |         |         |         |         |
| 01 GEMINI         | 60 D    | .500 lb ai/A | PRE   |      | 0.0 a  | 4.8 b   | 55.0 b  | 77.5 a  | 63.8 a  |
| 01 DUAL           | 8.0 L   | 2.00 lb ai/A | PRE   |      |        |         |         |         |         |
| 02 GEMINI         | 60 D    | .280 lb ai/A | PRE   |      | 0.0 a  | 6.3 ab  | 90.0 a  | 67.5 a  | 71.3 a  |
| 02 CLASSIC        | 25 D    | .008 lb ai/A | EPOST |      |        |         |         |         |         |
| 02 COC            | L       | 1.00 % v/v   | EPOST |      |        |         |         |         |         |
| 03 CLASSIC        | 25 D    | .008 lb ai/A | EPOST |      | 0.0 a  | 7.3 a   | 85.0 a  | 82.5 a  | 70.0 a  |
| 03 PINNACLE       | 25 D    | .004 lb ai/A | EPOST |      |        |         |         |         |         |
| 03 ASSURE II      | .88 L   | .055 lb ai/A | EPOST |      |        |         |         |         |         |
| 03 COC            | L       | 1.00 % v/v   | EPOST |      |        |         |         |         |         |
| 04 CLASSIC        | 25 D    | .012 lb ai/A | EPOST |      | 0.0 a  | 6.0 ab  | 80.0 a  | 86.3 a  | 62.5 a  |
| 04 PINNACLE       | 25 D    | .004 lb ai/A | EPOST |      |        |         |         |         |         |
| 04 ASSURE II      | .88 L   | .055 lb ai/A | EPOST |      |        |         |         |         |         |
| 04 COC            | L       | 1.00 % v/v   | EPOST |      |        |         |         |         |         |
| 05 STORM          | 4.0 L   | .750 lb ai/A | EPOST |      | 0.0 a  | 5.3 ab  | 55.0 b  | 80.0 a  | 82.5 a  |
| 05 ASSURE II      | .88 L   | .055 lb ai/A | EPOST |      |        |         |         |         |         |
| 05 X-77           | L       | .250 % v/v   | EPOST |      |        |         |         |         |         |
| 06 CONTROL        |         |              |       |      | 0.0 a  | 0.0 c   | 0.0 c   | 0.0 b   | 0.0 b   |
| LSD (.05) =       |         |              |       |      | 0      | 2.1     | 16.7    | 22.6    | 23.0    |
| Standard Dev.=    |         |              |       |      | 0      | 1.39443 | 11.1056 | 15.0162 | 15.2843 |
| CV =              |         |              |       |      | 0      | 28.36   | 18.26   | 22.88   | 26.20   |
| Block F           |         |              |       |      | 0.000  | 1.000   | 4.189   | 2.974   | 1.760   |
| Block Prob(F)     |         |              |       |      | 1.0000 | 0.4199  | 0.0243  | 0.0653  | 0.1979  |
| Treatment F       |         |              |       |      | 0.000  | 13.457  | 36.135  | 19.045  | 14.850  |
| Treatment Prob(F) |         |              |       |      | 1.0000 | 0.0001  | 0.0001  | 0.0001  | 0.0001  |

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

- End of Report -

10-25-93 (RESOBEAN.DD)

SITE DESC.

VPI &amp; SU

POSTEMERGENCE TREATMENTS WITH RESOURCE ON SOYBEANS

Project Code:MD02.70 RESOURCE

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-27-93

Variety ESSEX

Row Width 30"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance SPRING PLOWED, DISKED AND ROTO-TILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand \_\_\_\_\_ % Silt \_\_\_\_\_

% Clay \_\_\_\_\_

Soil Series ROSS

% OM 2.5

pH 6.3

CEC \_\_\_\_\_

## Application Information

A

B

C

D

E

F

Date Treated 6-16-93

Time Treated 2-3 PM

Cloud Cover 0%

Air Temperature 86 F

Relative Humidity 80%

Wind Speed/Direction 0-3 SW

Soil Temperature \_\_\_\_\_

Soil/Leaf Surface Moisture DRY

Soil Subsurface Moisture MOIST

Soil Tilth \_\_\_\_\_

Crop Stage POST

Pest Name, Stage &amp; Density

AMBTR 2-4 LEAF 3-5"

IPOHE 2-3 LEAF 2-3"

SORHA 3-4 LEAF 8-12"

SIDSP 2-4 LEAF 1-2"

## Application Equipment

Sprayer  
TypeSpeed  
MPHNozzle  
TypeNozzle  
SizeNozzle  
HeightNozzle  
SpacingBoom  
Width

GPA

Carrier PSI

1. CO/2 BACKPACK 3.1 FLAT FAN 8003 20" 18" 72" 22.5 WATER 32

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

## Comments

6-16-93 = SOYBEANS : V2 stage

10-17-93 (RESOBEAN.DAT)

SUMMARY

VPI &amp; SU

## POSTEMERGENCE TREATMENTS WITH RESOURCE ON SOYBEANS

Project Code:MD02.70 RESOURCE

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

|                  |         |        |         |        |        |        |
|------------------|---------|--------|---------|--------|--------|--------|
| Weed/Crop Code   | INJURY  | INJURY | OVERALL | SORHA  | AMBTR  | IPOHE  |
| Rating Data Type | VISUAL  | VISUAL | VISUAL  | VISUAL | VISUAL | VISUAL |
| Rating Unit      | 0-10    | 0-10   | 0-100   | 0-100  | 0-100  | 0-100  |
| Rating Date      | 6-21-93 | 7-1-93 | 7-1-93  | 7-1-93 | 7-1-93 | 7-1-93 |

| Trt Treatment     | Form Fm | Rate    | Grow         | Appl |      |         |         |         |         |
|-------------------|---------|---------|--------------|------|------|---------|---------|---------|---------|
| No Name           | Amt     | Ds Rate | Unit         | Stg  | Code |         |         |         |         |
| 1 control         |         |         |              |      |      | 0.0 d   | 0.0 d   | 0.0 c   | 0.0 c   |
| 2 resource        | 0.86 l  | .026    | lb ai/A post |      |      | 3.0 ab  | 0.3 cd  | 5.5 b   | 47.5 b  |
| 2 basagran        | 4.00 l  | .500    | lb ai/A post |      |      |         |         |         |         |
| 2 coc             | l       | 1.00    | % v/v post   |      |      |         |         |         |         |
| 3 resource        | 0.86 l  | .026    | lb ai/A post |      |      | 3.5 a   | 1.3 b   | 5.5 b   | 47.5 b  |
| 3 classic         | 25 d    | .006    | lb ai/A post |      |      |         |         |         |         |
| 3 coc             | l       | 1.00    | % v/v post   |      |      |         |         |         |         |
| 4 resource        | 0.86 l  | .026    | lb ai/A post |      |      | 3.5 a   | 0.8 bc  | 6.3 b   | 57.5 b  |
| 4 cobra           | 2.00 l  | .094    | lb ai/A post |      |      |         |         |         |         |
| 4 coc             | l       | .500    | % v/v post   |      |      |         |         |         |         |
| 5 resource        | 0.86 l  | .026    | lb ai/A post |      |      | 2.5 bc  | 2.3 a   | 8.8 a   | 95.0 a  |
| 5 pursuit         | 2.00 l  | .063    | lb ai/A post |      |      |         |         |         |         |
| 5 coc             | l       | .250    | % v/v post   |      |      |         |         |         |         |
| 5 urea-amm. sol   | l       |         | lb ai/A post |      |      |         |         |         |         |
| 6 resource        | 0.86 l  | .026    | lb ai/A post |      |      | 2.0 c   | 1.0 b   | 6.8 b   | 72.5 ab |
| 6 imazaquin       | 1.50 l  | .063    | lb ai/A post |      |      |         |         |         |         |
| 6 coc             | l       | 1.00    | % v/v post   |      |      |         |         |         |         |
| 7                 |         |         |              |      |      | 0.0 d   | 0.0 c   | 0.0 c   | 0.0 d   |
| LSD (.05) =       |         |         |              |      |      | 0.6     | 0.6     | 1.6     | 24.8    |
| Standard Dev.=    |         |         |              |      |      | .380059 | .436436 | 1.06533 | 16.7023 |
| CV =              |         |         |              |      |      | 15.73   | 55.55   | 22.77   | 36.54   |
| Block F           |         |         |              |      |      | 1.923   | 2.750   | 1.122   | 1.110   |
| Block Prob(F)     |         |         |              |      |      | 0.1692  | 0.0729  | 0.3663  | 0.3711  |
| Treatment F       |         |         |              |      |      | 48.231  | 13.750  | 40.217  | 17.855  |
| Treatment Prob(F) |         |         |              |      |      | 0.0001  | 0.0001  | 0.0001  | 0.0001  |

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

10-17-93 (RESOBEAN.DAT)

## SUMMARY

VPI &amp; SU

## POSTEMERGENCE TREATMENTS WITH RESOURCE ON SOYBEANS

Project Code:MD02.70 RESOURCE

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

|                  |        |
|------------------|--------|
| Weed/Crop Code   | SIDSP  |
| Rating Data Type | VISUAL |
| Rating Unit      | 0-100  |
| Rating Date      | 7-1-93 |

| Trt Treatment   | Form Fm                  | Rate | Grow | Appl    |
|-----------------|--------------------------|------|------|---------|
| No Name         | Amt Ds Rate Unit         | Stg  | Code |         |
| 1 control       |                          |      |      | 0.0 b   |
| 2 resource      | 0.86 l .026 lb ai/A post |      |      | 95.0 a  |
| 2 basagran      | 4.00 l .500 lb ai/A post |      |      |         |
| 2 coc           | l 1.00 % v/v post        |      |      |         |
| 3 resource      | 0.86 l .026 lb ai/A post |      |      | 95.0 a  |
| 3 classic       | 25 d .006 lb ai/A post   |      |      |         |
| 3 coc           | l 1.00 % v/v post        |      |      |         |
| 4 resource      | 0.86 l .026 lb ai/A post |      |      | 98.8 a  |
| 4 cobra         | 2.00 l .094 lb ai/A post |      |      |         |
| 4 coc           | l .500 % v/v post        |      |      |         |
| 5 resource      | 0.86 l .026 lb ai/A post |      |      | 100.0 a |
| 5 pursuit       | 2.00 l .063 lb ai/A post |      |      |         |
| 5 coc           | l .250 % v/v post        |      |      |         |
| 5 urea-amm. sol | l lb ai/A post           |      |      |         |
| 6 resource      | 0.86 l .026 lb ai/A post |      |      | 98.8 a  |
| 6 imazaquin     | 1.50 l .063 lb ai/A post |      |      |         |
| 6 coc           | l 1.00 % v/v post        |      |      |         |
| 7               |                          |      |      | 0.0 b   |

|                |         |
|----------------|---------|
| LSD (.05) =    | 5.2     |
| Standard Dev.= | 3.49319 |
| CV =           | 5.02    |

|                   |         |
|-------------------|---------|
| Block F           | 0.488   |
| Block Prob(F)     | 0.6950  |
| Treatment F       | 743.146 |
| Treatment Prob(F) | 0.0001  |

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

- End of Report -

10-25-93 (PINNHARM.DD)

SITE DESC.

VPI &amp; SU

PINNACLE/HARMONY EXTRA BURNDOWN

Project Code: PIN/HARMX93

Location : WHITETHORNE, VA.

Cooperator : E.S. HAGOOD, JR.

By: Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-25-93

Variety ESSEX

Row Width 30"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance FULL SEASON NO-TILL

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand \_\_\_\_\_ % Silt \_\_\_\_\_

% Clay \_\_\_\_\_

Soil Series ROSS

% OM \_\_\_\_\_

2.5 \_\_\_\_\_

pH \_\_\_\_\_

6.3 \_\_\_\_\_

CEC \_\_\_\_\_

## Application Information

A

B

C

D

E

F

Date Treated

6-21-93

Time Treated

10-11 AM

Cloud Cover

0%

Air Temperature

62 F

Relative Humidity

60%

Wind Speed/Direction

3-5 NW

Soil Temperature

Soil/Leaf Surface Moisture

DRY

Soil Subsurface Moisture

MOIST

Soil Tilth

Crop Stage

POST

Pest Name, Stage &amp; Density

SOLPT

5-7 LEAF

4-6"

POLPY

4-6 LEAF

5-7"

## Application Equipment

Sprayer  
TypeSpeed  
MPHNozzle  
TypeNozzle  
SizeNozzle  
HeightNozzle  
SpacingBoom  
Width

GPA

Carrier

PSI

1. CO/2 BACKPACK

3.1

FLAT FAN

8003

20"

18"

72"

22.5

WATER

34

2.

3.

4.

5.

6.

## Comments

6-21-93 = SOYBEANS : V2 stage

10-4-93 (PINNHARM.DAT)

## SUMMARY

VPI &amp; SU

## PINNACLE/HARMONY EXTRA BURNDOWN

Project Code: PIN/HARMX93

Location : WHITETHORNE, VA.

Cooperator : E.S. HAGOOD, JR.

By: Dept. Plant Path., Phys.,

|                  |        |         |        |        |
|------------------|--------|---------|--------|--------|
| Weed/Crop Code   | INJURY | OVERALL | SOLPT  | POLPY  |
| Rating Data Type | VISUAL | VISUAL  | VISUAL | VISUAL |
| Rating Unit      | 0-10   | 0-10    | 0-100  | 0-100  |
| Rating Date      | 6-7-93 | 6-7-93  | 6-7-93 | 6-7-93 |

| Trt Treatment    | Form Fm     | Rate    | Grow | Appl |       |         |          |         |
|------------------|-------------|---------|------|------|-------|---------|----------|---------|
| No Name          | Amt Ds Rate | Unit    | Stg  | Code |       |         |          |         |
| 01 PINNACLE      | 25 D .004   | lb ai/A | POST |      | 0.0 a | 8.3 bcd | 61.3 de  | 100.0 a |
| 01 X-77          | L .500      | % v/v   | POST |      |       |         |          |         |
| 02 HARMONY EXTRA | 75 D .023   | lb ai/A | POST |      | 0.0 a | 9.3 abc | 97.5 a   | 100.0 a |
| 02 X-77          | L .500      | % v/v   | POST |      |       |         |          |         |
| 03 ROUNDUP       | 4.0 L 0.5   | lb ai/A | POST |      | 0.0 a | 9.3 abc | 91.3 a   | 100.0 a |
| 03 X-77          | L .500      | % v/v   | POST |      |       |         |          |         |
| 04 ROUNDUP       | 4.0 L 1.0   | lb ai/A | POST |      | 0.0 a | 9.3 abc | 92.5 a   | 100.0 a |
| 04 X-77          | L .500      | % v/v   | POST |      |       |         |          |         |
| 05 PINNACLE      | 25 D .004   | lb ai/A | POST |      | 0.0 a | 9.3 abc | 95.0 a   | 97.5 a  |
| 05 ROUNDUP       | 4.0 L .375  | lb ai/A | POST |      |       |         |          |         |
| 05 X-77          | L .500      | % v/v   | POST |      |       |         |          |         |
| 06 PINNACLE      | 25 D .004   | lb ai/A | POST |      | 0.0 a | 9.0 a-d | 88.8 ab  | 100.0 a |
| 06 ROUNDUP       | 4.0 L .500  | lb ai/A | POST |      |       |         |          |         |
| 06 X-77          | L .500      | % v/v   | POST |      |       |         |          |         |
| 07 PINNACLE      | 25 D .004   | lb ai/A | POST |      | 0.0 a | 9.5 abc | 96.3 a   | 100.0 a |
| 07 ROUNDUP       | 4.0 L .625  | lb ai/A | POST |      |       |         |          |         |
| 07 X-77          | L .500      | % v/v   | POST |      |       |         |          |         |
| 08 PINNACLE      | 25 D .004   | lb ai/A | POST |      | 0.0 a | 9.5 abc | 92.5 a   | 100.0 a |
| 08 ROUNDUP       | 4.0 L 1.00  | lb ai/A | POST |      |       |         |          |         |
| 08 X-77          | L .500      | % v/v   | POST |      |       |         |          |         |
| 09 PINNACLE      | 25 D .008   | lb ai/A | POST |      | 0.0 a | 9.3 abc | 92.5 a   | 100.0 a |
| 09 ROUNDUP       | 4.0 L .500  | lb ai/A | POST |      |       |         |          |         |
| 09 X-77          | L .500      | % v/v   | POST |      |       |         |          |         |
| 10 PINNACLE      | 25 D .008   | lb ai/A | POST |      | 0.0 a | 8.5 a-d | 88.8 ab  | 96.3 a  |
| 10 ROUNDUP       | 4.0 L 1.00  | lb ai/A | POST |      |       |         |          |         |
| 10 X-77          | L .500      | % v/v   | POST |      |       |         |          |         |
| 11 PINNACLE      | 25 D .004   | lb ai/A | POST |      | 0.0 a | 8.5 a-d | 86.3 abc | 100.0 a |
| 11 ROUNDUP       | 4.0 L .500  | lb ai/A | POST |      |       |         |          |         |
| 11 2,4-D ESTER   | 4.0 L .250  | lb ai/A | POST |      |       |         |          |         |
| 11 X-77          | L .500      | % v/v   | POST |      |       |         |          |         |
| 12 PINNACLE      | 25 D .004   | lb ai/A | POST |      | 0.0 a | 6.5 e   | 56.3 e   | 100.0 a |
| 12 ASSURE II     | .88 L .017  | lb ai/A | POST |      |       |         |          |         |
| 12 X-77          | L .500      | % v/v   | POST |      |       |         |          |         |

10-4-93 (PINNHARM.DAT)

SUMMARY

VPI &amp; SU

PINNACLE/HARMONY EXTRA BURNDOWN

Project Code: PIN/HARMX93

Location : WHITETHORNE, VA.

Cooperator : E.S. HAGOOD, JR.

By: Dept. Plant Path., Phys.,

|                  |        |         |        |        |
|------------------|--------|---------|--------|--------|
| Weed/Crop Code   | INJURY | OVERALL | SOLPT  | POLPY  |
| Rating Data Type | VISUAL | VISUAL  | VISUAL | VISUAL |
| Rating Unit      | 0-10   | 0-10    | 0-100  | 0-100  |
| Rating Date      | 6-7-93 | 6-7-93  | 6-7-93 | 6-7-93 |

| Trt Treatment    | Form Fm    | Rate      | Grow | Appl |       |         |          |         |
|------------------|------------|-----------|------|------|-------|---------|----------|---------|
| No Name          | Amt Ds     | Rate Unit | Stg  | Code |       |         |          |         |
| 13 PINNACLE      | 25 D .004  | lb ai/A   | POST |      | 0.0 a | 8.0 cd  | 72.5 cd  | 96.3 a  |
| 13 ASSURE II     | .88 L .034 | lb ai/A   | POST |      |       |         |          |         |
| 13 X-77          | L .500     | % v/v     | POST |      |       |         |          |         |
| 14 PINNACLE      | 25 D .004  | lb ai/A   | POST |      | 0.0 a | 7.5 de  | 75.0 bcd | 100.0 a |
| 14 ASSURE II     | .88 L .017 | lb ai/A   | POST |      |       |         |          |         |
| 14 2,4-D ESTER   | 4.0 L .250 | lb ai/A   | POST |      |       |         |          |         |
| 14 X-77          | L .500     | % v/v     | POST |      |       |         |          |         |
| 15 HARMONY EXTRA | 75 D .023  | lb ai/A   | POST |      | 0.0 a | 9.3 abc | 87.5 ab  | 100.0 a |
| 15 ROUNDUP       | 4.0 L .375 | lb ai/A   | POST |      |       |         |          |         |
| 15 X-77          | L .500     | % v/v     | POST |      |       |         |          |         |
| 16 HARMONY EXTRA | 75 D .023  | lb ai/A   | POST |      | 0.0 a | 9.8 ab  | 100.0 a  | 100.0 a |
| 16 ROUNDUP       | 4.0 L .500 | lb ai/A   | POST |      |       |         |          |         |
| 16 X-77          | L .500     | % v/v     | POST |      |       |         |          |         |
| 17 HARMONY EXTRA | 75 D .023  | lb ai/A   | POST |      | 0.0 a | 9.8 ab  | 97.5 a   | 100.0 a |
| 17 ROUNDUP       | 4.0 L .625 | lb ai/A   | POST |      |       |         |          |         |
| 17 X-77          | L .500     | % v/v     | POST |      |       |         |          |         |
| 18 HARMONY EXTRA | 75 D .023  | lb ai/A   | POST |      | 0.0 a | 9.8 ab  | 96.3 a   | 100.0 a |
| 18 ROUNDUP       | 4.0 L 1.00 | lb ai/A   | POST |      |       |         |          |         |
| 18 X-77          | L .500     | % v/v     | POST |      |       |         |          |         |
| 19 HARMONY EXTRA | 75 D .023  | lb ai/A   | POST |      | 0.0 a | 10.0 a  | 100.0 a  | 100.0 a |
| 19 ROUNDUP       | 4.0 L .500 | lb ai/A   | POST |      |       |         |          |         |
| 19 2,4-D ESTER   | 4.0 L .250 | lb ai/A   | POST |      |       |         |          |         |
| 19 X-77          | L .500     | % v/v     | POST |      |       |         |          |         |
| 20 HARMONY EXTRA | 75 D .023  | lb ai/A   | POST |      | 0.0 a | 9.3 abc | 93.8 a   | 100.0 a |
| 20 ROUNDUP       | 4.0 L .500 | lb ai/A   | POST |      |       |         |          |         |
| 20 X-77          | L .500     | % v/v     | POST |      |       |         |          |         |
| 21 ROUNDUP       | 4.0 L .625 | lb ai/A   | POST |      | 0.0 a | 9.5 abc | 96.3 a   | 100.0 a |
| 21 2,4-D ESTER   | 4.0 L .250 | lb ai/A   | POST |      |       |         |          |         |
| 21 X-77          | L .500     | % v/v     | POST |      |       |         |          |         |

|            |       |       |       |       |
|------------|-------|-------|-------|-------|
| 22 CONTROL | 0.0 a | 0.0 f | 0.0 f | 0.0 b |
|------------|-------|-------|-------|-------|

|                |   |         |         |         |
|----------------|---|---------|---------|---------|
| LSD (.05) =    | 0 | 1.3     | 13.4    | 3.4     |
| Standard Dev.= | 0 | .954503 | 9.45674 | 2.38366 |
| CV =           | 0 | 11.13   | 11.20   | 2.51    |

|               |        |        |        |        |
|---------------|--------|--------|--------|--------|
| Block F       | 0.000  | 2.141  | 1.783  | 3.200  |
| Block Prob(F) | 1.0000 | 0.1039 | 0.1594 | 0.0292 |

10-25-93 (MD01.DD)

SITE DESC.

VPI &amp; SU

SELECT TANK MIXES FOR SOYBEANS

Project Code:MD01.08

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-27-93

Variety ESSEX

Row Width 30"

Design RCB

No. Reps. 4 Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance SPRING PLOWED,DISKED AND ROTO-TILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand \_\_\_\_\_ % Silt \_\_\_\_\_

% Clay \_\_\_\_\_

Soil Series ROSS

% OM 2.5

pH 6.3

CEC \_\_\_\_\_

## Application Information

A

B

C

D

E

F

Date Treated

6-16-93

Time Treated

12-1 PM

Cloud Cover

10%

Air Temperature

81 F

Relative Humidity

70%

Wind Speed/Direction

0-3 SW

Soil Temperature

Soil/Leaf Surface Moisture MOIST

Soil Subsurface Moisture MOIST

Soil Tilth

GOOD

Crop Stage

POST

Pest Name, Stage &amp; Density

AMBTR 6-8 LEAF 5-8"

SIDSP 3-4 LEAF 5-7"

IPOHE 5-7 LEAF 2-4"

SORHA 8-10"

## Application Equipment

Sprayer  
TypeSpeed  
MPHNozzle  
TypeNozzle  
SizeNozzle  
HeightNozzle  
SpacingBoom  
Width

GPA

Carrier

PSI

1. CO/2 BACKPACK 3.1 FLAT FAN 8003 20" 18" 72" 22.5 WATER 32

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

## Comments

6-16-93 = SOYBEANS : V2 stage

10-24-93 (MD01.DAT)

## SUMMARY

VPI & SU  
SELECT TANK MIXES FOR SOYBEANS

Project Code:MD01.08

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

|                  |         |        |         |        |        |        |
|------------------|---------|--------|---------|--------|--------|--------|
| Weed/Crop Code   | INJURY  | INJURY | OVERALL | SORHA  | AMBTR  | IPOHE  |
| Rating Data Type | VISUAL  | VISUAL | VISUAL  | VISUAL | VISUAL | VISUAL |
| Rating Unit      | 0-10    | 0-10   | 0-100   | 0-100  | 0-100  | 0-100  |
| Rating Date      | 6-21-93 | 7-1-93 | 7-1-93  | 7-1-93 | 7-1-93 | 7-1-93 |

| Trt Treatment     | Form Fm | Rate         | Grow | Appl |         |         |         |         |         |         |
|-------------------|---------|--------------|------|------|---------|---------|---------|---------|---------|---------|
| No Name           | Amt Ds  | Rate Unit    | Stg  | Code |         |         |         |         |         |         |
| 1 select          | 2.00 l  | .063 lb ai/A | post |      | 3.5 a   | 3.0 a   | 8.8 a   | 91.3 ab | 91.3 a  | 97.5 a  |
| 1 pursuit         | 1.50 l  | .063 lb ai/A | post |      |         |         |         |         |         |         |
| 1 cobra           | 2.00 l  | .063 lb ai/A | post |      |         |         |         |         |         |         |
| 1 coc             | l       | .500 % v/v   | post |      |         |         |         |         |         |         |
| 1 28% nitrogen    | l       | 2.00 % v/v   | post |      |         |         |         |         |         |         |
| 2 select          | 2.00 l  | .094 lb ai/A | post |      | 3.0 a   | 3.0 a   | 9.0 a   | 96.3 a  | 90.0 a  | 97.5 a  |
| 2 pursuit         | 1.50 l  | .063 lb ai/A | post |      |         |         |         |         |         |         |
| 2 cobra           | 2.00 l  | .063 lb ai/A | post |      |         |         |         |         |         |         |
| 2 coc             | l       | .500 % v/v   | post |      |         |         |         |         |         |         |
| 2 28% nitrogen    | l       | 2.00 % v/v   | post |      |         |         |         |         |         |         |
| 3 select          | 2.00 l  | .125 lb ai/A | post |      | 2.8 a   | 3.0 a   | 8.8 a   | 91.3 ab | 87.5 a  | 96.3 a  |
| 3 pursuit         | 1.50 l  | .063 lb ai/A | post |      |         |         |         |         |         |         |
| 3 cobra           | 2.00 l  | .063 lb ai/A | post |      |         |         |         |         |         |         |
| 3 coc             | l       | .500 % v/v   | post |      |         |         |         |         |         |         |
| 3 28% nitrogen    | l       | 2.00 % v/v   | post |      |         |         |         |         |         |         |
| 4 pursuit         | 1.50 l  | .063 lb ai/A | post |      | 3.0 a   | 2.8 a   | 8.8 a   | 88.8 b  | 92.5 a  | 100.0 a |
| 4 cobra           | 2.00 l  | .063 lb ai/A | post |      |         |         |         |         |         |         |
| 4 28% nitrogen    | l       | 2.00 % v/v   | post |      |         |         |         |         |         |         |
| 4 coc             | l       | .500 % v/v   | post |      |         |         |         |         |         |         |
| 5 pursuit         | 1.50 l  | .125 lb ai/A | post |      | 3.3 a   | 3.5 a   | 8.3 a   | 96.3 a  | 85.0 a  | 98.8 a  |
| 5 coc             | l       | .500 % v/v   | post |      |         |         |         |         |         |         |
| 5 28% nitrogen    | l       | 2.00 % v/v   | post |      |         |         |         |         |         |         |
| 6 control         |         |              |      |      | 0.0 b   | 0.0 b   | 0.0 b   | 0.0 c   | 0.0 b   | 0.0 b   |
| LSD (.05) =       |         |              |      |      | 0.7     | 0.9     | 1.0     | 6.8     | 10.0    | 6.3     |
| Standard Dev.=    |         |              |      |      | .494414 | .612373 | .691215 | 4.52616 | 6.66146 | 4.1833  |
| CV =              |         |              |      |      | 19.14   | 24.09   | 9.53    | 5.86    | 8.96    | 5.12    |
| Block F           |         |              |      |      | 1.136   | 1.889   | 1.279   | 2.220   | 0.775   | 1.429   |
| Block Prob(F)     |         |              |      |      | 0.3662  | 0.1748  | 0.3175  | 0.1280  | 0.5261  | 0.2737  |
| Treatment F       |         |              |      |      | 27.273  | 17.178  | 106.116 | 281.705 | 120.324 | 366.238 |
| Treatment Prob(F) |         |              |      |      | 0.0001  | 0.0001  | 0.0001  | 0.0001  | 0.0001  | 0.0001  |

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

10-24-93 (MD01.DAT)

## SUMMARY

VPI &amp; SU

SELECT TANK MIXES FOR SOYBEANS

Project Code:MD01.08

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

Weed/Crop Code

SIDSP

Rating Data Type

VISUAL

Rating Unit

0-100

Rating Date

7-1-93

| Trt | Treatment    | Form | Fm | Rate | Grow    | Appl         |
|-----|--------------|------|----|------|---------|--------------|
| No  | Name         | Amt  | Ds | Rate | Unit    | Stg Code     |
| 1   | select       | 2.00 | l  | .063 | lb ai/A | post 98.8 a  |
| 1   | pursuit      | 1.50 | l  | .063 | lb ai/A | post         |
| 1   | cobra        | 2.00 | l  | .063 | lb ai/A | post         |
| 1   | coc          |      | l  | .500 | % v/v   | post         |
| 1   | 28% nitrogen |      | l  | 2.00 | % v/v   | post         |
| 2   | select       | 2.00 | l  | .094 | lb ai/A | post 98.8 a  |
| 2   | pursuit      | 1.50 | l  | .063 | lb ai/A | post         |
| 2   | cobra        | 2.00 | l  | .063 | lb ai/A | post         |
| 2   | coc          |      | l  | .500 | % v/v   | post         |
| 2   | 28% nitrogen |      | l  | 2.00 | % v/v   | post         |
| 3   | select       | 2.00 | l  | .125 | lb ai/A | post 100.0 a |
| 3   | pursuit      | 1.50 | l  | .063 | lb ai/A | post         |
| 3   | cobra        | 2.00 | l  | .063 | lb ai/A | post         |
| 3   | coc          |      | l  | .500 | % v/v   | post         |
| 3   | 28% nitrogen |      | l  | 2.00 | % v/v   | post         |
| 4   | pursuit      | 1.50 | l  | .063 | lb ai/A | post 100.0 a |
| 4   | cobra        | 2.00 | l  | .063 | lb ai/A | post         |
| 4   | 28% nitrogen |      | l  | 2.00 | % v/v   | post         |
| 4   | coc          |      | l  | .500 | % v/v   | post         |
| 5   | pursuit      | 1.50 | l  | .125 | lb ai/A | post 100.0 a |
| 5   | coc          |      | l  | .500 | % v/v   | post         |
| 5   | 28% nitrogen |      | l  | 2.00 | % v/v   | post         |
| 6   | control      |      |    |      |         | 0.0 b        |

LSD (.05) =

1.9

Standard Dev.=

1.29099

CV =

1.56

Block F

2.500

Block Prob(F)

0.0991

Treatment F

3961.000

Treatment Prob(F)

0.0001

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

- End of Report -

10-25-93 (PURCOBRA.DD)

SITE DESC.

VPI &amp; SU

PURSUIT/COBRA TANK MIX

Project Code:93-102

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-27-93

Variety ESSEX

Row Width 30"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance SPRING PLOW, DISK AND ROTO-TILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture ROSS

% Sand

% Silt

% Clay

Soil Series SILT LOAM

% OM

pH

CEC

## Application Information

A

B

C

D

E

F

Date Treated

6-17-93

Time Treated

10:30 AM

Cloud Cover

0%

Air Temperature

82 F

Relative Humidity

80%

Wind Speed/Direction

0-3 SW

Soil Temperature

Soil/Leaf Surface Moisture

DRY

Soil Subsurface Moisture

MOIST

Soil Tilth

GOOD

Crop Stage

POST

Pest Name, Stage &amp; Density

AMBTR 2-4 leaf

3-5"

SOLAM 4-6 leaf

.50-1.0"

PANDI 3-4 leaf

2-4"

IPOHE 1 leaf

.75-1.5"

## Application Equipment

Sprayer  
TypeSpeed  
MPHNozzle  
TypeNozzle  
SizeNozzle  
HeightNozzle  
SpacingBoom  
Width

GPA

Carrier

PSI

1. CO/2 BACKPACK

3.1

FLAT FAN

8003

20"

18"

72"

22.5

WATER

32

2.

3.

4.

5.

6.

## Comments

6-30-93 POLPY 4-6 Leaf 5-8"

6-17-93 = SOYBEANS : V2 stage

10-3-93 (PURCOBRA.DAT)

## SUMMARY

VPI & SU  
PURSUIT/COBRA TANK MIX

Project Code:93-102

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

| Seed/Crop Code   | INJURY  | INJURY  | OVERALL | AMBTR   | PANDI   | SOLAM   |
|------------------|---------|---------|---------|---------|---------|---------|
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-10    | 0-100   | 0-100   | 0-100   | 0-100   |
| Rating Date      | 6-21-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 |

| Trt Treatment  | Form Fm                    | Rate | Grow | Appl  |        |       |        |        |         |  |
|----------------|----------------------------|------|------|-------|--------|-------|--------|--------|---------|--|
| No Name        | Amt Ds Rate Unit           | Stg  | Code |       |        |       |        |        |         |  |
| 1 pursuit      | 2.00 l .063 lb ai/A epost  |      |      | 4.3 b | 2.3 bc | 8.0 a | 78.8 a | 90.0 a | 100.0 a |  |
| 1 sylgard      | l .75 % v/v epost          |      |      |       |        |       |        |        |         |  |
| 1 liquid nitro | l 1.00 % v/v epost         |      |      |       |        |       |        |        |         |  |
| 2 pursuit      | 2.00 l .063 lb ai/A epost  |      |      | 4.0 b | 1.8 c  | 8.0 a | 81.3 a | 91.3 a | 100.0 a |  |
| 2 X-77         | l .250 % v/v epost         |      |      |       |        |       |        |        |         |  |
| 2 liquid nitro | l 1.00 % v/v epost         |      |      |       |        |       |        |        |         |  |
| 3 pursuit      | 2.00 l .063 lb ai/A epost  |      |      | 5.8 a | 2.0 c  | 8.5 a | 85.0 a | 91.3 a | 100.0 a |  |
| 3 cobra        | 2.00 l .063 lb ai/A epost  |      |      |       |        |       |        |        |         |  |
| 3 X-77         | l .250 % v/v epost         |      |      |       |        |       |        |        |         |  |
| 3 liquid nitro | l 1.00 % v/v epost         |      |      |       |        |       |        |        |         |  |
| 4 pursuit      | 2.00 l .063 lb ai/A epost  |      |      | 6.3 a | 3.0 a  | 8.3 a | 81.3 a | 88.8 a | 100.0 a |  |
| 4 cobra        | 2.00 l .063 lb ai/A epost  |      |      |       |        |       |        |        |         |  |
| 4 X-77         | l .250 % v/v epost         |      |      |       |        |       |        |        |         |  |
| 4 liquid nitro | l 1.00 % v/v epost         |      |      |       |        |       |        |        |         |  |
| 5 pursuit      | 2.00 l .063 lb ai/A epost  |      |      | 6.8 a | 2.8 ab | 8.3 a | 85.0 a | 93.3 a | 100.0 a |  |
| 5 cobra        | 2.00 l .063 lb ai/A epost  |      |      |       |        |       |        |        |         |  |
| 5 sylgard      | l .75 % v/v epost          |      |      |       |        |       |        |        |         |  |
| 5 liquid nitro | l 1.00 % v/v epost         |      |      |       |        |       |        |        |         |  |
| 6 pursuit      | 2.00 l .063 lb ai/A epost  |      |      | 6.8 a | 2.8 ab | 8.3 a | 87.5 a | 90.0 a | 100.0 a |  |
| 6 cobra        | 2.00 l .063 lb ai/A epost  |      |      |       |        |       |        |        |         |  |
| 6 sylgard      | l .75 % v/v epost          |      |      |       |        |       |        |        |         |  |
| 6 select       | 2.00 l .0625 lb ai/A epost |      |      |       |        |       |        |        |         |  |
| 6 liquid nitro | l 1.00 % v/v epost         |      |      |       |        |       |        |        |         |  |
| 7 pursuit      | 2.00 l .063 lb ai/A epost  |      |      | 3.8 b | 2.0 c  | 6.8 b | 65.0 b | 86.3 a | 100.0 a |  |
| 7 scepter      | 70 d .025 lb ai/A epost    |      |      |       |        |       |        |        |         |  |
| 7 sylgard      | l .75 % v/v epost          |      |      |       |        |       |        |        |         |  |
| 7 liquid nitro | l 1.00 % v/v epost         |      |      |       |        |       |        |        |         |  |
| 8 pursuit      | 2.00 l .063 lb ai/A epost  |      |      | 6.5 a | 2.8 ab | 8.8 a | 88.8 a | 85.0 a | 100.0 a |  |
| 8 sylgard      | l .75 % v/v epost          |      |      |       |        |       |        |        |         |  |
| 8 liquid nitro | l 1.00 % v/v epost         |      |      |       |        |       |        |        |         |  |
| 8 cobra        | 2.00 l .063 lb ai/A epost  |      |      |       |        |       |        |        |         |  |
| 8 coc          | l 1.00 % v/v epost         |      |      |       |        |       |        |        |         |  |
| 9 control      |                            |      |      | 0.0 c | 0.0 d  | 0.0 c | 0.0 c  | 0.0 b  | 0.0 a   |  |

LSD (.05) =

0.9 0.7 1.1 11.3 12.1 0

Standard Dev.=

.629153 .446178 .751542 7.76537 8.32194 0

CV =

12.87 20.86 10.45 10.71 10.46 0

10-3-93 (PURCOBRA.DAT)

SUMMARY

VPI & SU  
PURSUIT/COBRA TANK MIX

Project Code:93-102  
Cooperator :E.S. HAGOOD

Location :WHITETHORNE, VA.  
By:Dept. Plant Path., Phys.,

| Weed/Crop Code   | INJURY  | INJURY  | OVERALL | AMBTR   | PANDI   | SOLAM   |
|------------------|---------|---------|---------|---------|---------|---------|
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-10    | 0-100   | 0-100   | 0-100   | 0-100   |
| Rating Date      | 6-21-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 | 6-30-93 |

|                   |        |        |        |        |        |        |
|-------------------|--------|--------|--------|--------|--------|--------|
| Block F           | 1.684  | 1.628  | 4.246  | 4.714  | 4.138  | 0.000  |
| Block Prob(F)     | 0.1970 | 0.2092 | 0.0153 | 0.0100 | 0.0169 | 1.0000 |
| Treatment F       | 48.649 | 16.674 | 53.754 | 52.290 | 51.746 | 0.000  |
| Treatment Prob(F) | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 1.0000 |

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

10-3-93 (PURCOBRA.DAT)

SUMMARY

VPI & SU  
PURSUIT/COBRA TANK MIX

Project Code:93-102

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

|                  |         |         |
|------------------|---------|---------|
| Weed/Crop Code   | IPOHE   | POLPY   |
| Rating Data Type | VISUAL  | VISUAL  |
| Rating Unit      | 0-100   | 0-100   |
| Rating Date      | 6-30-93 | 6-30-93 |

| Trt No | Treatment Name | Form | Fm | Rate  | Unit    | Grow Stg | Appl Code |         |         |
|--------|----------------|------|----|-------|---------|----------|-----------|---------|---------|
| 1      | pursuit        | 2.00 | l  | .063  | lb ai/A | epost    |           | 100.0 a | 100.0 a |
| 1      | sylgard        |      | l  | .75   | % v/v   | epost    |           |         |         |
| 1      | liquid nitro   |      | l  | 1.00  | % v/v   | epost    |           |         |         |
| 2      | pursuit        | 2.00 | l  | .063  | lb ai/A | epost    |           | 100.0 a | 100.0 a |
| 2      | X-77           |      | l  | .250  | % v/v   | epost    |           |         |         |
| 2      | liquid nitro   |      | l  | 1.00  | % v/v   | epost    |           |         |         |
| 3      | pursuit        | 2.00 | l  | .063  | lb ai/A | epost    |           | 100.0 a | 100.0 a |
| 3      | cobra          | 2.00 | l  | .063  | lb ai/A | epost    |           |         |         |
| 3      | X-77           |      | l  | .250  | % v/v   | epost    |           |         |         |
| 3      | liquid nitro   |      | l  | 1.00  | % v/v   | epost    |           |         |         |
| 4      | pursuit        | 2.00 | l  | .063  | lb ai/A | epost    |           | 100.0 a | 100.0 a |
| 4      | cobra          | 2.00 | l  | .063  | lb ai/A | epost    |           |         |         |
| 4      | X-77           |      | l  | .250  | % v/v   | epost    |           |         |         |
| 4      | liquid nitro   |      | l  | 1.00  | % v/v   | epost    |           |         |         |
| 5      | pursuit        | 2.00 | l  | .063  | lb ai/A | epost    |           | 100.0 a | 100.0 a |
| 5      | cobra          | 2.00 | l  | .063  | lb ai/A | epost    |           |         |         |
| 5      | sylgard        |      | l  | .75   | % v/v   | epost    |           |         |         |
| 5      | liquid nitro   |      | l  | 1.00  | % v/v   | epost    |           |         |         |
| 6      | pursuit        | 2.00 | l  | .063  | lb ai/A | epost    |           | 100.0 a | 100.0 a |
| 6      | cobra          | 2.00 | l  | .063  | lb ai/A | epost    |           |         |         |
| 6      | sylgard        |      | l  | .75   | % v/v   | epost    |           |         |         |
| 6      | select         | 2.00 | l  | .0625 | lb ai/A | epost    |           |         |         |
| 6      | liquid nitro   |      | l  | 1.00  | % v/v   | epost    |           |         |         |
| 7      | pursuit        | 2.00 | l  | .063  | lb ai/A | epost    |           | 100.0 a | 100.0 a |
| 7      | scepter        | 70   | d  | .025  | lb ai/A | epost    |           |         |         |
| 7      | sylgard        |      | l  | .75   | % v/v   | epost    |           |         |         |
| 7      | liquid nitro   |      | l  | 1.00  | % v/v   | epost    |           |         |         |
| 8      | pursuit        | 2.00 | l  | .063  | lb ai/A | epost    |           | 100.0 a | 100.0 a |
| 8      | sylgard        |      | l  | .75   | % v/v   | epost    |           |         |         |
| 8      | liquid nitro   |      | l  | 1.00  | % v/v   | epost    |           |         |         |
| 8      | cobra          | 2.00 | l  | .063  | lb ai/A | epost    |           |         |         |
| 8      | coc            |      | l  | 1.00  | % v/v   | epost    |           |         |         |
| 9      | control        |      |    |       |         |          |           | 0.0 a   | 0.0 a   |

LSD (.05) =  
Standard Dev.=  
CV =

|   |   |
|---|---|
| 0 | 0 |
| 0 | 0 |
| 0 | 0 |

## VPI &amp; SU

ROUNDUP-2,4-D IN FULL SEASON NO-TILL SOYBEANS

Project Code:93 ROUNDUP-2,4-D

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 6-4-93

Variety ESSEX

Row Width 30"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance SPRING PLOWED,DISKED AND ROTO-TILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture ROSS

% Sand \_\_\_\_\_ % Silt \_\_\_\_\_

% Clay \_\_\_\_\_

Soil Series SILT LOAM

% OM 2.5

pH 6.3

CEC \_\_\_\_\_

## Application Information

A

B

C

D

E

F

Date Treated

5-21-93 6-4-93

Time Treated

10:30 AM 2 PM

Cloud Cover

0% 100%

Air Temperature

63 F 80 F

Relative Humidity

60 F 80%

Wind Speed/Direction

3-5 NW 0-3 SW

Soil Temperature

Soil/Leaf Surface Moisture

DRY DRY

Soil Subsurface Moisture

MOIST DRY

Soil Tilth

GOOD GOOD

Crop Stage

14 DEPP PRE

Pest Name, Stage &amp; Density

CHEAL 1-2 LEAF

1.0" 2-3"

CYPES 2-4 LEAF

1.0" 2-3"

PANDI 2 LEAF

.5-1.0" 2"

## Application Equipment

| Sprayer Type     | Speed MPH | Nozzle Type | Nozzle Size | Nozzle Height | Nozzle Spacing | Boom Width | GPA   | Carrier | PSI   |
|------------------|-----------|-------------|-------------|---------------|----------------|------------|-------|---------|-------|
| 1. CO/2 BACKPACK | 3.1       | FLAT FAN    | 8003        | 20"           | 18"            | 72"        | 22.5  | WATER   | 32    |
| 2. CO/2 BACKPACK | 3.1       | FLAT FAN    | 8003        | 20"           | 18"            | 72"        | 22.5  | WATER   | 32    |
| 3. _____         | _____     | _____       | _____       | _____         | _____          | _____      | _____ | _____   | _____ |
| 4. _____         | _____     | _____       | _____       | _____         | _____          | _____      | _____ | _____   | _____ |
| 5. _____         | _____     | _____       | _____       | _____         | _____          | _____      | _____ | _____   | _____ |
| 6. _____         | _____     | _____       | _____       | _____         | _____          | _____      | _____ | _____   | _____ |

## Comments

6-4-93 = SOYBEANS : V1 stage

10-3-93 (RD24-DEP.DAT)

## SUMMARY

VPI &amp; SU

ROUNDUP-2,4-D IN FULL SEASON NO-TILL SOYBEANS

Project Code:93 ROUNDUP-2,4-D

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

All rates are specified as lb ai/A

|                  |         |         |         |         |
|------------------|---------|---------|---------|---------|
| Weed/Crop Code   | OVERALL | CHEAL   | CYPES   | PANDI   |
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-100   | 0-100   | 0-100   |
| Rating Date      | 6-10-93 | 6-10-93 | 6-10-93 | 6-10-93 |

| Trt Treatment     | Form | Fm | Grow | Appl   |      |         |         |         |
|-------------------|------|----|------|--------|------|---------|---------|---------|
| No Name           | Amt  | Ds | Rate | Stg    | Code |         |         |         |
| 1 roundup         | 4.00 | l  | .50  | 14DEPP |      | 8.3 abc | 100.0 a | 82.5 a  |
| 1 2,4-D ester     | 4.00 | l  | .50  | 14DEPP |      |         |         | 100.0 a |
| 2 roundup         | 4.00 | l  | 1.00 | 14DEPP |      | 8.8 ab  | 100.0 a | 85.0 a  |
| 2 2,4-D ester     | 4.00 | l  | .50  | 14DEPP |      |         |         | 100.0 a |
| 3 roundup         | 4.00 | l  | 1.50 | 14DEPP |      | 8.5 ab  | 100.0 a | 82.5 a  |
| 3 2,4-D ester     | 4.00 | l  | .50  | 14DEPP |      |         |         | 100.0 a |
| 4 roundup         | 4.00 | l  | .50  | PRE    |      | 8.3 abc | 95.0 a  | 88.8 a  |
| 4 2,4-D ester     | 4.00 | l  | .50  | 14DEPP |      |         |         | 100.0 a |
| 5 roundup         | 4.00 | l  | 1.00 | PRE    |      | 9.0 ab  | 100.0 a | 82.5 a  |
| 5 2,4-D ester     | 4.00 | l  | .50  | 14DEPP |      |         |         | 100.0 a |
| 6 roundup         | 4.00 | l  | 1.50 | PRE    |      | 9.5 a   | 100.0 a | 97.5 a  |
| 6 2,4-D           | 4.00 | L  | .50  | 14DEPP |      |         |         | 100.0 a |
| 7 roundup         | 4.00 | l  | .50  | PRE    |      | 5.0 d   | 75.0 b  | 53.8 b  |
| 8 roundup         | 4.00 | l  | 1.00 | PRE    |      | 6.5 cd  | 100.0 a | 90.0 a  |
| 9 roundup         | 4.00 | l  | 1.50 | PRE    |      | 7.5 bc  | 95.0 a  | 88.8 a  |
| 10 control        |      |    |      |        |      | 0.0 e   | 0.0 c   | 0.0 c   |
| LSD (.05) =       |      |    |      |        |      | 1.7     | 10.0    | 21.8    |
| Standard Dev.=    |      |    |      |        |      | 1.19528 | 6.91215 | 15.0177 |
| CV =              |      |    |      |        |      | 16.78   | 7.99    | 19.99   |
| Block F           |      |    |      |        |      | 5.057   | 1.465   | 1.207   |
| Block Prob(F)     |      |    |      |        |      | 0.0066  | 0.2462  | 0.3260  |
| Treatment F       |      |    |      |        |      | 22.408  | 82.349  | 14.690  |
| Treatment Prob(F) |      |    |      |        |      | 0.0001  | 0.0001  | 0.0001  |

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

- End of Report -

10-3-93 (V53482FS.DD)

SITE DESC.

VPI &amp; SU

V-53482 BURNDOWN IN FULL SEASON SOYBEANS

Project Code:MD01.01 RESOURCE

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 5-27-93

Variety ESSEX

Row Width 30"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance SPRING PLOWED, DISKED AND ROTO-TILLED

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand

% Silt

% Clay

Soil Series ROSS

% OM

2.5

pH

6.3

CEC

## Application Information

A

B

C

D

E

F

Date Treated

5-21-93

Time Treated

1 PM

Cloud Cover

70%

Air Temperature

72 F

Relative Humidity

70%

Wind Speed/Direction

3-5 NW

Soil Temperature

Soil/Leaf Surface Moisture

DRY

Soil Subsurface Moisture

MOIST

Soil Tilth

GOOD

Crop Stage

PRE

Pest Name, Stage &amp; Density

PANDI

2-3 LEAF

1-2"

CYPES

1-2 LEAF

2-3"

AMBTR

2-4 LEAF

3-5"

## Application Equipment

Sprayer  
TypeSpeed  
MPHNozzle  
TypeNozzle  
SizeNozzle  
HeightNozzle  
SpacingBoom  
Width

GPA

Carrier

PSI

1. CO/2 BACKPACK 3.1 FLAT FAN 8003 20" 18" 72" 22.5 WATER 32

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

## Comments

10-3-93 (V53482FS.DAT)

## SUMMARY

VPI &amp; SU

V-53482 BURNDOWN IN FULL SEASON SOYBEANS

Project Code:MD01.01 RESOURCE

Location :WHITETHORNE, VA.

Cooperator :E.S. HAGOOD

By:Dept. Plant Path., Phys.,

|                  |         |        |        |        |
|------------------|---------|--------|--------|--------|
| Seed/Crop Code   | OVERALL | AMBTR  | PANDI  | CYPES  |
| Rating Data Type | VISUAL  | VISUAL | VISUAL | VISUAL |
| Rating Unit      | 0-10    | 0-100  | 0-100  | 0-100  |
| Rating Date      | 6-7-93  | 6-7-93 | 6-7-93 | 6-7-93 |

| Trt Treatment | Form Fm | Rate             | Grow | Appl |        |         |         |         |
|---------------|---------|------------------|------|------|--------|---------|---------|---------|
| No Name       | Amt Ds  | Rate Unit        | Stg  | Code |        |         |         |         |
| 1 control     |         |                  |      |      | 0.0 c  | 0.0 b   | 0.0 a   | 0.0 a   |
| 2 V-53482     | 50 d    | .063 lb ai/A pre |      |      | 10.0 a | 100.0 a | 100.0 a | 100.0 a |
| 2 roundup     | 4.00 l  | 1.00 lb ai/A pre |      |      |        |         |         |         |
| 2 dual        | 8.00 l  | 1.00 lb ai/A pre |      |      |        |         |         |         |
| 3 V-53482     | 50 d    | .063 lb ai/A pre |      |      | 9.3 b  | 100.0 a | 100.0 a | 100.0 a |
| 3 clethodim   | 0.94 l  | .094 lb ai/A pre |      |      |        |         |         |         |
| 3 coc         | l       | 1.00 % v/v pre   |      |      |        |         |         |         |
| 4 V-53482     | 50 d    | .063 lb ai/A pre |      |      | 9.3 b  | 96.3 a  | 100.0 a | 100.0 a |
| 4 roundup     | 4.00 l  | .50 lb ai/A pre  |      |      |        |         |         |         |
| 5 V-53482     | 50 d    | .063 lb ai/A pre |      |      | 10.0 a | 100.0 a | 100.0 a | 100.0 a |
| 5 squadron    | 2.66 l  | .875 lb ai/A pre |      |      |        |         |         |         |
| 6 roundup     | 4.00 l  | 1.00 lb ai/A pre |      |      | 9.8 ab | 97.5 a  | 100.0 a | 100.0 a |
| 6 canopy      | 75 d    | .60 lb ai/A pre  |      |      |        |         |         |         |
| 7 V-53482     | 50 d    | .063 lb ai/A pre |      |      | 9.8 ab | 97.5 a  | 100.0 a | 100.0 a |
| 7 roundup     | 4.00 l  | 1.00 lb ai/A pre |      |      |        |         |         |         |

|                |         |         |   |   |
|----------------|---------|---------|---|---|
| LSD (.05) =    | 0.6     | 5.1     | 0 | 0 |
| Standard Dev.= | .388322 | 3.46467 | 0 | 0 |
| CV =           | 4.69    | 4.10    | 0 | 0 |

|                   |         |         |        |        |
|-------------------|---------|---------|--------|--------|
| Block F           | 0.632   | 0.074   | 0.000  | 0.000  |
| Block Prob(F)     | 0.6041  | 0.9730  | 1.0000 | 1.0000 |
| Treatment F       | 356.684 | 463.017 | 0.000  | 0.000  |
| Treatment Prob(F) | 0.0001  | 0.0001  | 1.0000 | 1.0000 |

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

- End of Report -

10-26-93 (V-53482.DD)

SITE DESC.

VPI &amp; SU

Double Crop Soybeans-Amelia

Project Code:DCSOYAMELIA 93

Location :Amelia, VA.

Cooperator :E.S. Hagood

By:Dept. Plant Path., Phys.,

## Experimental Management

Date Planted 6-14-93

Variety FFR 544

Row Width 24"

Design RCB

No. Reps. 4

Plot Size 6 X 25 FEET

Field Preparation and Plot Maintenance No-till following small grain

## Site Description

Season Moisture SEE ATTACHED RAINFALL DATA

Soil Texture SILT LOAM

% Sand

% Silt

% Clay

Soil Series

% OM

1.5

pH

6.3

CEC

## Application Information

A

B

C

D

E

F

Date Treated

6-15-93

7-12-93

Time Treated

9-11 AM

11-12 AM

Cloud Cover

25%

0%

Air Temperature

70 F

85 F

Relative Humidity

60%

70%

Wind Speed/Direction

0-3 SW

0-3 SW

Soil Temperature

Soil/Leaf Surface Moisture

DRY

DRY

Soil Subsurface Moisture

DRY

DRY

Soil Tilth

GOOD

GOOD

Crop Stage

PRE

E POST

Pest Name, Stage &amp; Density

AMARE

3-5 LEAF

3-5"

5-7"

SETFA

3-5 LEAF

4-6"

8-9"

## Application Equipment

|    | Sprayer<br>Type | Speed<br>MPH | Nozzle<br>Type | Nozzle<br>Size | Nozzle<br>Height | Nozzle<br>Spacing | Boom<br>Width | GPA  | Carrier | PSI |
|----|-----------------|--------------|----------------|----------------|------------------|-------------------|---------------|------|---------|-----|
| 1. | CO/2 BACKPACK   | 3.1          | FLAT FAN       | 8003           | 20"              | 18"               | 72"           | 22.5 | WATER   | 34  |
| 2. | CO/2 BACKPACK   | 3.1          | FLAT FAN       | 8003           | 20"              | 18"               | 72"           | 22.5 | WATER   | 34  |
| 3. |                 |              |                |                |                  |                   |               |      |         |     |
| 4. |                 |              |                |                |                  |                   |               |      |         |     |
| 5. |                 |              |                |                |                  |                   |               |      |         |     |
| 6. |                 |              |                |                |                  |                   |               |      |         |     |

## Comments

7-12-93 = SOYBEANS : V4 stage

10-24-93 (V-53482.DAT)

## SUMMARY

## VPI &amp; SU

## Double Crop Soybeans-Amelia

Project Code:DCSOYAMELIA 93

Location :Amelia, VA.

Cooperator :E.S. Hagood

By:Dept. Plant Path., Phys.,

| Seed/Crop Code   | INJURY  | OVERALL | SETFA   | AMARE   | OVERALL | SETFA   |
|------------------|---------|---------|---------|---------|---------|---------|
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-10    | 0-100   | 0-100   | 0-10    | 0-100   |
| Rating Date      | 7-12-93 | 7-12-93 | 7-12-93 | 7-12-93 | 7-21-93 | 7-21-93 |

| Trt Treatment | Form Fm                   | Rate | Grow | Appl  |         |         |         |         |         |  |
|---------------|---------------------------|------|------|-------|---------|---------|---------|---------|---------|--|
| No Name       | Amt Ds Rate Unit          | Stg  | Code |       |         |         |         |         |         |  |
| 1 roundup     | 4.00 l 1.00 lb ai/A pre   |      |      | 0.3 b | 9.88 a  | 98.8 a  | 100.0 a | 9.75 a  | 98.8 a  |  |
| 1 NAF 2       | 7.66 l 1.68 lb ai/A pre   |      |      |       |         |         |         |         |         |  |
| 2 roundup     | 4.00 l 1.00 lb ai/A pre   |      |      | 0.3 b | 9.75 ab | 97.5 ab | 100.0 a | 10.00 a | 100.0 a |  |
| 2 NAF 2       | 7.66 l 1.92 lb ai/A pre   |      |      |       |         |         |         |         |         |  |
| 3 roundup     | 4.00 l 1.00 lb ai/A pre   |      |      | 0.5 b | 9.88 a  | 98.8 a  | 100.0 a | 9.75 a  | 97.5 a  |  |
| 3 NAF 2       | 7.66 l 2.16 lb ai/A pre   |      |      |       |         |         |         |         |         |  |
| 4 roundup     | 4.00 l 1.00 lb ai/A pre   |      |      | 0.3 b | 10.00 a | 100.0 a | 100.0 a | 10.00 a | 100.0 a |  |
| 4 NAF 2       | 7.66 l 1.68 lb ai/A pre   |      |      |       |         |         |         |         |         |  |
| 4 storm       | 4.00 l 1.12 lb ai/A epost |      |      |       |         |         |         |         |         |  |
| 5 roundup     | 4.00 l 1.00 lb ai/A pre   |      |      | 0.3 b | 10.00 a | 100.0 a | 100.0 a | 9.75 a  | 98.8 a  |  |
| 5 NAF 2       | 7.66 l 1.92 lb ai/A pre   |      |      |       |         |         |         |         |         |  |
| 5 storm       | 4.00 l 1.12 lb ai/A epost |      |      |       |         |         |         |         |         |  |
| 6 roundup     | 4.00 l 1.00 lb ai/A pre   |      |      | 0.3 b | 9.75 ab | 97.5 ab | 100.0 a | 9.88 a  | 98.8 a  |  |
| 6 NAF 2       | 7.66 l 2.16 lb ai/A pre   |      |      |       |         |         |         |         |         |  |
| 6 storm       | 4.00 l 1.12 lb ai/A epost |      |      |       |         |         |         |         |         |  |
| 7 NAF 2       | 7.66 l 1.68 lb ai/A pre   |      |      | 0.3 b | 7.63 d  | 76.3 d  | 100.0 a | 6.63 c  | 63.8 cd |  |
| 7 X-77        | l .500 % v/v pre          |      |      |       |         |         |         |         |         |  |
| 8 NAF 2       | 7.66 l 1.92 lb ai/A pre   |      |      | 0.3 b | 7.00 de | 70.0 de | 100.0 a | 6.00 c  | 62.5 cd |  |
| 8 X-77        | l .500 % v/v pre          |      |      |       |         |         |         |         |         |  |
| 9 NAF 2       | 7.66 l 2.16 lb ai/A pre   |      |      | 0.5 b | 7.38 de | 73.8 de | 100.0 a | 6.75 c  | 68.8 c  |  |
| 9 X-77        | l .500 % v/v pre          |      |      |       |         |         |         |         |         |  |
| 10 roundup    | 4.00 l 1.00 lb ai/A pre   |      |      | 0.0 b | 9.75 ab | 97.5 ab | 100.0 a | 9.63 a  | 97.5 a  |  |
| 10 canopy     | 75 d .280 lb ai/A pre     |      |      |       |         |         |         |         |         |  |
| 10 dual       | 8.00 l 1.50 lb ai/A pre   |      |      |       |         |         |         |         |         |  |
| 11 canopy     | 75 d .280 lb ai/A pre     |      |      | 0.0 b | 6.75 e  | 67.5 e  | 100.0 a | 6.25 c  | 60.0 d  |  |
| 11 dual       | 8.00 l 1.50 lb ai/A pre   |      |      |       |         |         |         |         |         |  |
| 11 X-77       | l .500 % v/v pre          |      |      |       |         |         |         |         |         |  |
| 12 pursuit    | 2.00 l .062 lb ai/A pre   |      |      | 0.0 b | 9.50 ab | 95.0 ab | 100.0 a | 9.63 a  | 96.3 a  |  |
| 12 X-77       | l .500 % v/v pre          |      |      |       |         |         |         |         |         |  |
| 13 pursuit    | 2.00 l .062 lb ai/A pre   |      |      | 0.0 b | 9.50 ab | 95.0 ab | 100.0 a | 9.38 ab | 96.3 a  |  |
| 13 prowl      | 4.00 l .75 lb ai/A pre    |      |      |       |         |         |         |         |         |  |
| 13 X-77       | l .500 % v/v pre          |      |      |       |         |         |         |         |         |  |

10-24-93 (V-53482.DAT)

## SUMMARY

## VPI &amp; SU

## Double Crop Soybeans-Amelia

Project Code:DCSOYAMELIA 93

Location :Amelia, VA.

Cooperator :E.S. Hagood

By:Dept. Plant Path., Phys.,

|                  |         |         |         |         |         |         |
|------------------|---------|---------|---------|---------|---------|---------|
| Weed/Crop Code   | INJURY  | OVERALL | SETFA   | AMARE   | OVERALL | SETFA   |
| Rating Data Type | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  | VISUAL  |
| Rating Unit      | 0-10    | 0-10    | 0-100   | 0-100   | 0-10    | 0-100   |
| Rating Date      | 7-12-93 | 7-12-93 | 7-12-93 | 7-12-93 | 7-21-93 | 7-21-93 |

| Trt Treatment     | Form Fm     | Rate    | Grow | Appl |         |         |         |          |         |         |
|-------------------|-------------|---------|------|------|---------|---------|---------|----------|---------|---------|
| No Name           | Amt Ds Rate | Unit    | Stg  | Code |         |         |         |          |         |         |
| 14 roundup        | 4.00 l 1.00 | lb ai/A | pre  |      | 0.0 b   | 9.75 ab | 97.5 ab | 100.0 a  | 10.00 a | 100.0 a |
| 14 pursuit        | 2.00 l .062 | lb ai/A | pre  |      |         |         |         |          |         |         |
| 15 roundup        | 4.00 l 1.00 | lb ai/A | pre  |      | 0.0 b   | 9.75 ab | 97.5 ab | 100.0 a  | 9.75 a  | 98.8 a  |
| 15 pursuit        | 2.00 l .062 | lb ai/A | pre  |      |         |         |         |          |         |         |
| 15 prowl          | 4.00 l .75  | lb ai/A | pre  |      |         |         |         |          |         |         |
| 16 V-53482        | 50 d .063   | lb ai/A | pre  |      | 0.3 b   | 9.75 ab | 97.5 ab | 100.0 a  | 9.63 a  | 97.5 a  |
| 16 roundup        | 4.00 l 1.00 | lb ai/A | pre  |      |         |         |         |          |         |         |
| 16 dual           | 8.00 l 1.00 | lb ai/A | pre  |      |         |         |         |          |         |         |
| 17 V-53482        | 50 d .063   | lb ai/A | pre  |      | 0.0 b   | 9.63 ab | 96.3 ab | 100.0 a  | 9.25 ab | 93.8 a  |
| 17 select         | 0.94 l .094 | lb ai/A | pre  |      |         |         |         |          |         |         |
| 17 coc            | l 1.00      | % v/v   | pre  |      |         |         |         |          |         |         |
| 18 V-53482        | 50 d .063   | lb ai/A | pre  |      | 0.0 b   | 9.63 ab | 97.5 ab | 98.8 b   | 9.63 a  | 98.8 a  |
| 18 roundup        | 4.00 l .50  | lb ai/A | pre  |      |         |         |         |          |         |         |
| 19 V-53482        | 50 d .063   | lb ai/A | pre  |      | 0.0 b   | 8.63 c  | 86.3 c  | 100.0 a  | 8.25 b  | 81.3 b  |
| 19 squadron       | 2.66 l .875 | lb ai/A | pre  |      |         |         |         |          |         |         |
| 20 roundup        | 4.00 l 1.00 | lb ai/A | pre  |      | 1.3 a   | 9.75 ab | 97.5 ab | 100.0 a  | 9.88 a  | 98.8 a  |
| 20 canopy         | 75 d .60    | lb ai/A | pre  |      |         |         |         |          |         |         |
| 21 V-53482        | 50 d .063   | lb ai/A | pre  |      | 0.0 b   | 9.50 ab | 95.0 ab | 98.8 b   | 9.38 ab | 95.0 a  |
| 21 roundup        | 4.00 l 1.00 | lb ai/A | pre  |      |         |         |         |          |         |         |
| 22 roundup        | 4.00 l 1.00 | lb ai/A | pre  |      | 0.0 b   | 10.00 a | 100.0 a | 100.0 a  | 9.75 a  | 98.8 a  |
| 22 squadron       | 2.66 l .875 | lb ai/A | pre  |      |         |         |         |          |         |         |
| 23 squadron       | 2.66 l .875 | lb ai/A | pre  |      | 0.0 b   | 8.88 bc | 88.8 bc | 100.0 a  | 8.75 ab | 86.3 b  |
| 23 X-77           | l .50       | % v/v   | pre  |      |         |         |         |          |         |         |
| 24 control        |             |         |      |      | 0.0 b   | 0.00 f  | 0.0 f   | 0.0 c    | 1.63 d  | 0.0 e   |
| LSD (.05) =       |             |         |      |      | 0.5     | 0.78    | 7.9     | 1.0      | 1.12    | 7.6     |
| Standard Dev.=    |             |         |      |      | .376908 | .554680 | 5.55665 | .705825  | .794665 | 5.35430 |
| CV =              |             |         |      |      | 212.84  | 6.28    | 6.29    | 0.74     | 9.11    | 6.16    |
| Block F           |             |         |      |      | 2.224   | 1.377   | 1.358   | 2.091    | 2.535   | 5.632   |
| Block Prob(F)     |             |         |      |      | 0.0931  | 0.2571  | 0.2629  | 0.1094   | 0.0639  | 0.0016  |
| Treatment F       |             |         |      |      | 2.216   | 58.834  | 58.746  | 3339.182 | 24.685  | 72.131  |
| Treatment Prob(F) |             |         |      |      | 0.0060  | 0.0001  | 0.0001  | 0.0001   | 0.0001  | 0.0001  |

10-24-93 (V-53482.DAT)

## SUMMARY

VPI &amp; SU

Double Crop Soybeans-Amelia

Project Code:DCSOYAMELIA 93

Location :Amelia, VA.

Cooperator :E.S. Hagood

By:Dept. Plant Path., Phys.,

Weed/Crop Code

AMARE

Rating Data Type

VISUAL

Rating Unit

0-100

Rating Date

7-21-93

| Trt Treatment | Form Fm             | Rate  | Grow    | Appl |
|---------------|---------------------|-------|---------|------|
| No Name       | Amt Ds Rate Unit    | Stg   | Code    |      |
| 1 roundup     | 4.00 l 1.00 lb ai/A | pre   | 100.0 a |      |
| 1 NAF 2       | 7.66 l 1.68 lb ai/A | pre   |         |      |
| 2 roundup     | 4.00 l 1.00 lb ai/A | pre   | 100.0 a |      |
| 2 NAF 2       | 7.66 l 1.92 lb ai/A | pre   |         |      |
| 3 roundup     | 4.00 l 1.00 lb ai/A | pre   | 100.0 a |      |
| 3 NAF 2       | 7.66 l 2.16 lb ai/A | pre   |         |      |
| 4 roundup     | 4.00 l 1.00 lb ai/A | pre   | 100.0 a |      |
| 4 NAF 2       | 7.66 l 1.68 lb ai/A | pre   |         |      |
| 4 storm       | 4.00 l 1.12 lb ai/A | epost |         |      |
| 5 roundup     | 4.00 l 1.00 lb ai/A | pre   | 100.0 a |      |
| 5 NAF 2       | 7.66 l 1.92 lb ai/A | pre   |         |      |
| 5 storm       | 4.00 l 1.12 lb ai/A | epost |         |      |
| 6 roundup     | 4.00 l 1.00 lb ai/A | pre   | 100.0 a |      |
| 6 NAF 2       | 7.66 l 2.16 lb ai/A | pre   |         |      |
| 6 storm       | 4.00 l 1.12 lb ai/A | epost |         |      |
| 7 NAF 2       | 7.66 l 1.68 lb ai/A | pre   | 95.0 b  |      |
| 7 X-77        | l .500 % v/v        | pre   |         |      |
| 8 NAF 2       | 7.66 l 1.92 lb ai/A | pre   | 100.0 a |      |
| 8 X-77        | l .500 % v/v        | pre   |         |      |
| 9 NAF 2       | 7.66 l 2.16 lb ai/A | pre   | 96.3 ab |      |
| 9 X-77        | l .500 % v/v        | pre   |         |      |
| 10 roundup    | 4.00 l 1.00 lb ai/A | pre   | 100.0 a |      |
| 10 canopy     | 75 d .280 lb ai/A   | pre   |         |      |
| 10 dual       | 8.00 l 1.50 lb ai/A | pre   |         |      |
| 11 canopy     | 75 d .280 lb ai/A   | pre   | 95.0 b  |      |
| 11 dual       | 8.00 l 1.50 lb ai/A | pre   |         |      |
| 11 X-77       | l .500 % v/v        | pre   |         |      |
| 12 pursuit    | 2.00 l .062 lb ai/A | pre   | 100.0 a |      |
| 12 X-77       | l .500 % v/v        | pre   |         |      |
| 13 pursuit    | 2.00 l .062 lb ai/A | pre   | 100.0 a |      |
| 13 prowl      | 4.00 l .75 lb ai/A  | pre   |         |      |
| 13 X-77       | l .500 % v/v        | pre   |         |      |

10-24-93 (V-53482.DAT)

## SUMMARY

VPI &amp; SU

Double Crop Soybeans-Amelia

Project Code:DCSOYAMELIA 93

Location :Amelia, VA.

Cooperator :E.S. Hagood

By:Dept. Plant Path., Phys.,

|                  |         |
|------------------|---------|
| Weed/Crop Code   | AMARE   |
| Rating Data Type | VISUAL  |
| Rating Unit      | 0-100   |
| Rating Date      | 7-21-93 |

| Trt Treatment | Form Fm     | Rate    | Grow | Appl    |
|---------------|-------------|---------|------|---------|
| No Name       | Amt Ds Rate | Unit    | Stg  | Code    |
| 14 roundup    | 4.00 l 1.00 | lb ai/A | pre  | 100.0 a |
| 14 pursuit    | 2.00 l .062 | lb ai/A | pre  |         |
| 15 roundup    | 4.00 l 1.00 | lb ai/A | pre  | 100.0 a |
| 15 pursuit    | 2.00 l .062 | lb ai/A | pre  |         |
| 15 prowl      | 4.00 l .75  | lb ai/A | pre  |         |
| 16 V-53482    | 50 d .063   | lb ai/A | pre  | 100.0 a |
| 16 roundup    | 4.00 l 1.00 | lb ai/A | pre  |         |
| 16 dual       | 8.00 l 1.00 | lb ai/A | pre  |         |
| 17 V-53482    | 50 d .063   | lb ai/A | pre  | 100.0 a |
| 17 select     | 0.94 l .094 | lb ai/A | pre  |         |
| 17 coc        | l 1.00      | % v/v   | pre  |         |
| 18 V-53482    | 50 d .063   | lb ai/A | pre  | 98.8 ab |
| 18 roundup    | 4.00 l .50  | lb ai/A | pre  |         |
| 19 V-53482    | 50 d .063   | lb ai/A | pre  | 97.5 ab |
| 19 squadron   | 2.66 l .875 | lb ai/A | pre  |         |
| 20 roundup    | 4.00 l 1.00 | lb ai/A | pre  | 98.8 ab |
| 20 canopy     | 75 d .60    | lb ai/A | pre  |         |
| 21 V-53482    | 50 d .063   | lb ai/A | pre  | 98.8 ab |
| 21 roundup    | 4.00 l 1.00 | lb ai/A | pre  |         |
| 22 roundup    | 4.00 l 1.00 | lb ai/A | pre  | 100.0 a |
| 22 squadron   | 2.66 l .875 | lb ai/A | pre  |         |
| 23 squadron   | 2.66 l .875 | lb ai/A | pre  | 96.3 ab |
| 23 X-77       | l .50       | % v/v   | pre  |         |
| 24 control    |             |         |      | 0.0 c   |

|                 |   |         |
|-----------------|---|---------|
| LSD (.05)       | = | 3.5     |
| Standard Dev. = |   | 2.47344 |
| CV              | = | 2.61    |

|                   |  |         |
|-------------------|--|---------|
| Block F           |  | 2.540   |
| Block Prob(F)     |  | 0.0635  |
| Treatment F       |  | 268.662 |
| Treatment Prob(F) |  | 0.0001  |

WEATHER DATA (WHITETHORNE/BLACKSBURG)

| Date | April   |        | May     |        | June    |        |
|------|---------|--------|---------|--------|---------|--------|
|      | max/min | precip | max/min | precip | max/min | precip |
| 1    | 56/43   | .28    | 75/51   |        | 72/49   |        |
| 2    | 62/41   | .01    | 81/51   |        | 69/39   |        |
| 3    | 46/29   |        | 75/55   |        | 75/45   |        |
| 4    | 51/31   |        | 69/55   | .11    | 80/56   |        |
| 5    | 58/30   | .02    | 64/55   | .44    | 79/54   | 1.59   |
| 6    | 34/29   | .35    | 76/54   |        | 76/47   |        |
| 7    | 47/26   |        | 78/48   |        | 75/51   |        |
| 8    | 62/28   |        | 80/49   |        | 81/53   |        |
| 9    | 67/37   |        | 75/54   |        | 87/60   |        |
| 10   | -/-     | .27    | 81/53   | 1.83   | 89/59   |        |
| 11   | 54/39   |        | 80/53   |        | 88/61   | .25    |
| 12   | 72/45   |        | 81/55   |        | 83/62   |        |
| 13   | 64/40   |        | 77/56   | 1.07   | 77/57   | 1.17   |
| 14   | 68/41   |        | 69/49   | .30    | 63/55   | .23    |
| 15   | 76/49   |        | 71/48   |        | 71/53   |        |
| 16   | 71/50   | 1.05   | 72/51   |        | 81/55   |        |
| 17   | 68/34   |        | 80/56   | .02    | 83/53   |        |
| 18   | 49/37   |        | 77/55   | T      | 86/63   |        |
| 19   | 65/39   |        | 80/56   | .44    | 87/62   |        |
| 20   | 68/42   |        | 60/42   | .06    | 88/60   |        |
| 21   | 71/49   | .18    | 62/34   |        | 88/63   |        |
| 22   | 55/31   | .45    | 62/35   | .02    | 74/60   | .01    |
| 23   | 49/32   |        | 64/40   |        | 80/56   |        |
| 24   | 61/38   |        | 70/48   |        | 82/56   |        |
| 25   | 74/45   |        | 79/53   |        | 82/58   |        |
| 26   | 74/50   | .68    | 71/55   | .07    | 82/59   |        |
| 27   | 48/33   | .08    | 70/42   |        | 81/53   | .08    |
| 28   | 66/33   |        | 79/44   |        | 83/56   |        |
| 29   | 72/34   |        | 83/56   |        | 87/58   | .25    |
| 30   | 77/41   |        | 80/55   |        | 81/57   |        |
| 31   |         |        | 70/54   |        |         |        |

# WEATHER DATA (WHITETHORNE/BLACKSBURG)

| Date | July    |        | August  |        | September |        |
|------|---------|--------|---------|--------|-----------|--------|
|      | max/min | precip | max/min | precip | max/min   | precip |
| 1    | 85/59   | .17    | -/-     |        | 89/62     | T      |
| 2    | 87/63   | .40    | 86/59   |        | 90/61     | .04    |
| 3    | 84/64   | .10    | 87/64   | .07    | 84/61     | .02    |
| 4    | 87/65   | .04    | 85/63   |        | 87/63     | .24    |
| 5    | 88/65   | .02    | 84/58   |        | 75/56     | .12    |
| 6    | 90/63   | .01    | 82/56   | .12    | 81/54     |        |
| 7    | 89/64   |        | 69/53   | .22    | 83/56     |        |
| 8    | 92/63   |        | 76/53   |        | 82/57     |        |
| 9    | 92/65   | .      | 79/55   |        | 82/57     |        |
| 10   | 94/64   | T      | 81/55   |        | 83/58     | .01    |
| 11   | 90/65   |        | 83/55   |        | 75/49     |        |
| 12   | 88/63   | .52    | 75/58   | .13    | 71/41     |        |
| 13   | 87/63   | .08    | 86/62   | .58    | 76/50     |        |
| 14   | 89/64   | .05    | 71/62   | .60    | 82/50     |        |
| 15   | 90/65   | .36    | 82/63   |        | 81/58     |        |
| 16   | 85/65   | .31    | 86/60   |        | 87/62     | .39    |
| 17   | 83/63   | .01    | 87/60   |        | 76/62     | 1.18   |
| 18   | 84/65   |        | 83/63   |        | 75/61     | 1.14   |
| 19   | 84/68   |        | 86/64   |        | 77/50     |        |
| 20   | 89/67   | .85    | 87/63   |        | 69/50     |        |
| 21   | 87/61   |        | 88/62   | .04    | 66/55     | .57    |
| 22   | 88/63   |        | 84/63   |        | 77/51     |        |
| 23   | 87/61   |        | 81/59   |        | 77/51     |        |
| 24   |         |        | 86/60   |        | 76/53     |        |
| 25   | 85/60   |        | 90/62   |        | --/49     |        |
| 26   | 92/65   | .02    | 91/62   | .01    | --/49     | .46    |
| 27   | 94/65   | .34    | 89/62   |        | 82/56     | .33    |
| 28   | 89/63   |        | 90/59   | .81    | 69/41     | .77    |
| 29   | 93/65   |        | 90/61   |        | 68/42     |        |
| 30   | 89/64   |        | 89/62   |        | 64/40     |        |
| 31   |         |        | 86/61   | .69    |           |        |

# WEATHER DATA (AMELIA)

|      | April   |        | May     |        |
|------|---------|--------|---------|--------|
| Date | max/min | precip | max/min | precip |
| 1    | 83/47   |        | 75/58   | .06    |
| 2    | 84/52   |        | 75/55   |        |
| 3    | 78/54   |        | 76/68   | .02    |
| 4    | 80/54   | .07    | 81/60   | .43    |
| 5    | 74/62   | .75    | 87/60   | .59    |
| 6    | 81/58   |        | 75/54   |        |
| 7    | 80/56   |        | 85/53   |        |
| 8    | 79/40   |        | 91/69   | T      |
| 9    | 83/64   |        | 96/72   |        |
| 10   | 85/58   |        | 95/72   |        |
| 11   | 89/59   |        | 88/70   | .60    |
| 12   | 89/61   | .49    | 77/63   |        |
| 13   | 79/59   | .75    | 75/59   |        |
| 14   | 73/56   |        | 78/54   |        |
| 15   | 83/53   |        | 84/62   |        |
| 16   | 83/58   | .25    | 87/68   |        |
| 17   | 76/62   | .01    | 89/64   |        |
| 18   | 74/61   | 1.56   | 94/78   |        |
| 19   | 73/59   | .27    | 95/72   |        |
| 20   | 69/51   | T      | 95/74   |        |
| 21   | 69/47   |        | 88/69   | .05    |
| 22   | 78/46   |        | 88/78   |        |
| 23   | 78/46   |        | 85/59   |        |
| 24   | 84/57   |        | 88/54   |        |
| 25   | 86/64   | T      | 88/59   |        |
| 26   | 72/57   | .23    | 92/63   |        |
| 27   | 82/53   |        | 89/69   | T      |
| 28   | 88/56   |        | 96/62   |        |
| 29   | 86/68   | .01    | 94/69   | T      |
| 30   | 76/52   |        | 89/69   |        |
| 31   | 83/50   | .34    | 89/69   |        |

# WEATHER DATA (NEW KENT)

|      | April   |        | May     |        |
|------|---------|--------|---------|--------|
| Date | max/min | precip | max/min | precip |
| 1    | 78/44   |        | 75/57   | .15    |
| 2    | 81/50   |        | 75/49   |        |
| 3    | 76/53   |        | 77/59   | .01    |
| 4    | 76/57   |        | 89/63   | .42    |
| 5    | 72/62   | .18    | 86/61   | .82    |
| 6    | 80/56   | .60    | 86/52   | .02    |
| 7    | 80/55   |        | 86/52   |        |
| 8    | 76/46   |        | 89/69   | .92    |
| 9    | 78/52   |        | 95/71   |        |
| 10   | 82/54   |        | 95/68   |        |
| 11   | 87/58   |        | 94/68   | .10    |
| 12   | 87/60   |        | 82/65   |        |
| 13   | 87/63   | .65    | 78/59   |        |
| 14   | 75/57   | 1.03   | 75/54   | T      |
| 15   | 83/55   |        | 85/60   |        |
| 16   | 87/62   |        | 87/66   |        |
| 17   | 86/63   |        | 89/60   |        |
| 18   | 75/61   | 1.37   | 93/68   |        |
| 19   | 73/60   | .84    | 94/73   |        |
| 20   | 77/54   | .84    | 95/73   |        |
| 21   | 69/45   |        | 93/70   |        |
| 22   | 71/44   |        | 83/70   | T      |
| 23   | 78/44   |        | 86/63   |        |
| 24   | 85/60   |        | 89/53   |        |
| 25   | 86/65   |        | 88/58   |        |
| 26   | 81/59   | .45    | 88/61   |        |
| 27   | 83/54   | T      | 88/66   |        |
| 28   | 89/59   |        | 91/60   |        |
| 29   | 86/64   | .15    | 94/66   |        |
| 30   | 80/51   |        | 89/66   | .53    |
| 31   | 82/57   |        |         |        |

# WEATHER DATA (SPOTSYLVANIA)

|      | May     |        | June    |        |
|------|---------|--------|---------|--------|
| Date | max/min | precip | max/min | precip |
| 1    | 77/46   |        | 81/52   | .52    |
| 2    | 81/49   |        | 78/47   |        |
| 3    | 83/56   |        | 73/53   | .15    |
| 4    | 76/58   |        | 78/58   | .01    |
| 5    | 76/59   | .03    | 78/49   | .50    |
| 6    | 82/58   | .85    | 77/49   |        |
| 7    | 84/49   | .90    | 85/50   |        |
| 8    | 78/46   |        | 85/54   | .55    |
| 9    | 84/52   |        | 88/66   | .01    |
| 10   | 82/55   |        | 95/63   | .20    |
| 11   | 87/55   |        | 95/63   |        |
| 12   | 89/58   |        | 90/63   |        |
| 13   | 86/60   | .17    | 88/50   |        |
| 14   | 78/49   | .79    | 88/51   |        |
| 15   | 75/50   | .01    | 83/55   |        |
| 16   | 84/55   |        | 83/63   |        |
| 17   | 86/55   | .47    | 89/58   |        |
| 18   | 86/56   | .26    | 89/61   |        |
| 19   | 61/56   | .94    | 94/67   |        |
| 20   | 64/50   | .19    | 96/70   | .01    |
| 21   | 70/40   |        | 94/66   |        |
| 22   | 72/42   |        | 87/66   |        |
| 23   | 73/42   |        | 89/62   |        |
| 24   | 77/55   |        | 87/50   |        |
| 25   | 83/59   |        | 86/55   |        |
| 26   | 84/59   | .03    | 88/60   |        |
| 27   | 78/48   | .07    | 92/62   | .23    |
| 28   | 85/53   |        | 91/61   |        |
| 29   | 85/51   |        | 95/65   |        |
| 30   | 87/47   |        | 90/65   |        |
| 31   | 78/46   |        |         |        |

