

# Herbicide Evaluation Trials - 1987

C. H. Slack and W. W. Witt



University of Kentucky • College of Agriculture • Department of Agronomy • Lexington  
(Not for Publication)

## ACKNOWLEDGEMENTS

Special assistance in preparing this publication was provided by the following individuals:

**James R. Martin**, Extension Weed Control Specialist, who aided in conducting experiments at Princeton and farmer locations in western Kentucky.

**Randy Wells** and **Mark Cole**, technicians, who aided greatly in plot establishment, field day, data collection and plot harvest, as well as the day-to-day operation of the project.

**Gene L. Olson**, technician, who provided assistance in plot establishment and field day preparation.

**Laura Boldt**, **Jerry Flint**, **Anthony Mills**, **Kip Sander**, **Gary Schmitz**, and **Angela Thomsson**, graduate research assistants, who made significant contributions in conducting special projects.

Thanks to **Mr. John H. Byars**, **Mr. Jeff Davis**, **Ms. Jan Hilton** and **Mr. Daryl Holland** of the Agricultural Data Center for their assistance in developing computer programs for computerizing and summarizing the results of our tests.

A special thanks to **Ms. Betty J. Ham**, Publications Production Manager, and her group for the many hours of hard work involved in the quick printing of this report and to **Dr. Deborah B. Witham** for editing.

# CONTENTS

|   | <i>Page</i> |
|---|-------------|
| <b>I. EXPERIMENTAL TECHNIQUES</b> .....                             | 1           |
| <b>II. ABBREVIATIONS USED IN REPORT HEADINGS</b>                    |             |
| A. Weed Species .....   | 2           |
| B. Miscellaneous .....  | 2           |
| C. Growth Stages .....  | 2           |
| 1. Corn   |             |
| D. Application Times .....  | 3           |
| <b>III. CLIMATOLOGICAL DATA</b>                                     |             |
| A. Spindletop .....   | 4           |
| B. Princeton .....  | 10          |
| <b>IV. HERBICIDES IN REPORT</b> .....                               | 16          |
| <b>V. CORN WEED CONTROL—LEXINGTON</b>                               |             |
| <b>A. Control of Grass and Broadleaf Species</b>                    |             |
| 1. Preemergence-First Evaluation (C7001) .....                      | 18          |
| 2. Preemergence-Second Evaluation (C7001) .....                     | 21          |
| 3. Preplant Incorporated-First Evaluation (C7002) .....             | 24          |
| 4. Preplant Incorporated-Second Evaluation (C7002) .....            | 25          |
| 5. Postemergence-First Evaluation (C7003) .....                     | 26          |
| 6. Postemergence-Second Evaluation (C7003) .....                    | 30          |
| 7. No-till Stalkland (C7004) .....                                  | 34          |
| 8. No-till Stalkland II-First Evaluation (C7005) .....              | 38          |
| 9. No-till Stalkland II-Second Evaluation (C7005) .....             | 40          |
| 10. No-till Cron in Soybean Stubble-First Evaluation (C7009) .....  | 42          |
| 11. No-till Corn in Soybean Stubble-Second Evaluation (C7009) ..... | 46          |
| 12. Shattercane Control (S7030) .....                               | 50          |
| <b>VI. SOYBEAN WEED CONTROL—LEXINGTON</b>                           |             |
| <b>A. Control of Grass and Broadleaf Species</b>                    |             |
| 13. Preemergence (S7011) .....                                      | 52          |
| 14. Preemergence II-First Evaluation (S7060) .....                  | 56          |
| 15. Preemergence II-Second Evaluation (S7060) .....                 | 58          |
| 16. Preplant Incorporated-First Evaluation (S7013) .....            | 60          |
| 17. Preplant Incorporated-Second Evaluation (S7013) .....           | 67          |
| 18. Preplant Incorporated II-First Evaluation (S7061) .....         | 74          |
| 19. Preplant Incorporated II-Second Evaluation (S7061) .....        | 77          |
| 20. Postemergence (S7014) .....                                     | 80          |
| 21. Postemergence II-First Evaluation (S7027) .....                 | 85          |
| 22. Postemergence II-Second Evaluation (S7027) .....                | 89          |
| 23. Postemergence III-First Evaluation (S7033) .....                | 93          |
| 24. Postemergence III-Second Evaluation (S7033) .....               | 99          |

|  |     |
|--|-----|
| 25. Postemergence IV-First Evaluation (S7034) .....                | 105 |
| 26. Postemergence IV-Second Evaluation (S7034) .....               | 106 |
| 27. Postemergence V-First Evaluation (S7062) .....                 | 107 |
| 28. Postemergence V-Second Evaluation (S7062) .....                | 110 |
| 29. No-till Early Preplant (S7017) .....                           | 113 |
| 30. No-till Early Preplant II (S7032) .....                        | 116 |
| 31. Full Season No-till-First Evaluation (S7035) .....             | 119 |
| 32. Full Season No-till-Second Evaluation (S7035) .....            | 128 |
| 33. Full Season Reduced Tillage-First Evaluation (S7037).....      | 137 |
| 34. Full Season Reduced Tillage-Second Evaluation (S7037).....     | 145 |
| <br>   |     |
| <b>VII. GRAIN SORGHUM WEED CONTROL—LEXINGTON</b>                   |     |
| 35. Weed Control in Grain Sorghum (S7120).....                     | 153 |
| <br>   |     |
| <b>VIII. CORN WEED CONTROL—PRINCETON</b>                           |     |
| 36. Weed Control in Conventional Corn (S7104).....                 | 155 |
| <br>   |     |
| <b>IX. SOYBEAN WEED CONTROL—PRINCETON</b>                          |     |
| <b>A. Specific Weed Species</b>                                    |     |
| 37. Johnsongrass Preemergence & Preplant Incorporated (S7102)..... | 156 |
| 38. Johnsongrass Postemergence (S7103) .....                       | 157 |
| 39. Cocklebur Control in Soybeans (S7112) .....                    | 161 |
| 40. Morningglory Control in Soybeans (S7117) .....                 | 170 |
| <br>   |     |
| <b>X. BURLEY TOBACCO</b>   |     |
| 43. Soil & Postemergence Applied Herbicides (T7018) .....          | 175 |

## **I. EXPERIMENTAL TECHNIQUES**

- DESIGN:** All treatments within an experiment were in a randomized complete block design with three or four replications per treatment. Each treated plot was two rows wide by twenty-five to forty feet in length depending on the experiment. An untreated row separated each plot except in the no-tillage studies.
- APPLICATION:** All treatments were applied with a hand-held boom sprayer pressurized by CO<sub>2</sub>. Unless indicated otherwise, all treatments were applied at 25 GPA. Plots were incorporated with a field cultivator at both the Lexington and Princeton locations.
- EVALUATION:** Weed control was evaluated based on a 0 to 100 scale with 0 representing no control and 100 representing total control. Crop injury was also based on a 0 to 100 scale with 0 representing no injury and 100 representing crop death.
- CULTIVATION:** Plots were not cultivated except where indicated.
- SPECIFIC  
EXPERIMENTAL  
INFORMATION:** The following items are found at the end of each summary: (A) location, (B) fertilization, (C) soil type, (D) pH, (E) organic matter, (F) treatment date(s), (G) hybrid or cultivar, (H) planting dates, (I) crop and/or weed growth stage for postemergence application.

## II. ABBREVIATIONS

### A. Weed Species

| <u>ABB</u> | <u>Common Name</u>       | <u>Scientific Name</u>          |
|------------|--------------------------|---------------------------------|
| BLNS       | Eastern Black Nightshade | <i>Solanum pytcanthum</i>       |
| CLMW       | Climbing Milkweed        | <i>Sarcostemma cynanchoides</i> |
| COCB       | Common Cocklebur         | <i>Xanthium pensylvanicum</i>   |
| COLQ       | Common Lambsquarters     | <i>Chenopodium album</i>        |
| CORW       | Common Ragweed           | <i>Ambrosia artemisiifolia</i>  |
| FAPA       | Fall Panicum             | <i>Panicum dichotomiflorum</i>  |
| GIFT       | Giant Foxtail            | <i>Setaria faberi</i>           |
| HHCL       | Hophornbeam Copperleaf   | <i>Acalypha ostryifolia</i>     |
| HONE       | Horsenettle              | <i>Solanum carolinense</i>      |
| ILMG       | Ivyleaf Morningglory     | <i>Ipomoea hederaceae</i>       |
| JIWE       | Jimsonweed               | <i>Datura stramonium</i>        |
| JOGR       | Johnsongrass             | <i>Sorghum halepense</i>        |
| LACG       | Large Crabgrass          | <i>Digitaria sanguinalis</i>    |
| MRTL       | Marestail                | <i>Conyza canadensis</i>        |
| PESW       | Pennsylvania Smartweed   | <i>Polygonum pensylvanicum</i>  |
| PRLE       | Prickly Lettuce          | <i>Lactuca serriola</i>         |
| PRSI       | Prickly Sida             | <i>Sida spinosa</i>             |
| RRPW       | Redroot Pigweed          | <i>Amaranthus retroflexus</i>   |
| SHCA       | Shattercane              | <i>Sorghum bicolor</i>          |
| TAMG       | Tall Morningglory        | <i>Ipomoea purpurea</i>         |
| VELE       | Velvetleaf               | <i>Abutilon theophrasti</i>     |
| YEFT       | Yellow Foxtail           | <i>Setaria glauca</i>           |

### B. Miscellaneous

|      |                       |
|------|-----------------------|
| BRLE | All Broadleaf Species |
| GRAS | All Grass Species     |
| CRIN | Crop Injury           |

### C. Crop Growth Stages at Application

#### 1. CORN

- SPK - Spiking stage; corn just emerging from soil
- 2LF - Two fully developed leaves formed
- 3LF - Three fully developed leaves formed
- 4LF - Four fully developed leaves formed
- 5LF - Five fully developed leaves formed

## II. ABBREVIATIONS

### D. Herbicide Application Times with Reference to Crop or Weed

1. PPI —Preplant incorporated
2. PRE —Preemergence
3. EPP —Early preplant; 3-4 weeks before planting
4. POE —Postemergence
5. POT —Post transplanting
6. EP —Early postemergence; weeds < 2"
7. MP —Mid-postemergence; weeds 2-4"
8. LP —Late postemergence; weeds 4-6"
9. LLP —Late, late postemergence; weeds > 18"
10. POD —Postemergence directed; to the base of the crop plant
11. REG —Sequential application when regrowth occurs
12. +1D —Sequential treatment applied 1 day after first application
13. +5D —Sequential treatment applied 5 days after first application
14. +7D —Sequential treatment applied 7 days after first application
15. -7D —Treatment applied 7 days before planting
16. -45 —Sequential treatment applied 45 days before planting
17. 2WP —Treatment applied 2 weeks prior to planting
18. 6J —6" Johnsongrass
19. 12J —12" Johnsongrass
20. 12R —Treatment applied when regrowth of Johnsongrass reaches 12"
21. 15J —15" Johnsongrass
22. 21J —21" Johnsongrass

### III A. April Climatological Data, Spindletop

|         | TEMP |    | PCPN  | RH  |    | SOILTEMP |    |      |    | EVAP |
|---------|------|----|-------|-----|----|----------|----|------|----|------|
|         | HI   | LO |       | HI  | LO | GRASS    |    | BARE |    |      |
|         |      |    |       |     | HI | LO       | HI | LO   |    |      |
| 4/ 1/87 | 56   | 31 | --    | 85  | 42 | 44       | 42 | 46   | 35 |      |
| 4/ 2/87 | 54   | 34 | .42   | 100 | 50 | 44       | 43 | 46   | 38 |      |
| 4/ 3/87 | 41   | 31 | --    | 84  | 53 | 43       | 42 | 44   | 33 |      |
| 4/ 4/87 | 34   | 30 | .14   | 100 | 76 | 41       | 40 | 41   | 35 |      |
| 4/ 5/87 | 40   | 33 | .15   | 100 | 84 | 39       | 39 | 37   | 35 |      |
| 4/ 6/87 | 49   | 35 | --    | 100 | 75 | 41       | 40 | 42   | 34 | .00  |
| 4/ 7/87 | 58   | 45 | .01   | 100 | 68 | 44       | 40 | 53   | 44 | .07  |
| 4/ 8/87 | 64   | 43 | --    | 100 | 32 | 48       | 43 | 56   | 41 | .20  |
| 4/ 9/87 | 63   | 38 | --    | 99  | 34 | 48       | 46 | 59   | 41 | .10  |
| 4/10/87 | 70   | 36 | --    | 85  | 31 | 49       | 47 | 60   | 40 | .19  |
| 4/11/87 | 70   | 46 | .01   | 98  | 31 | 51       | 48 | 68   | 48 | .28  |
| 4/12/87 | 63   | 54 | .12   | 100 | 32 | 53       | 50 | 60   | 49 | .30  |
| 4/13/87 | 67   | 41 | --    | 100 | 54 | 53       | 51 | 59   | 45 | .11  |
| 4/14/87 | 75   | 62 | .16   | 100 | 57 | 55       | 51 | 62   | 53 | .18  |
| 4/15/87 | 63   | 55 | 1.25  | 100 | 77 | 54       | 53 | 62   | 53 | .22  |
| 4/16/87 | 61   | 47 | TRACE | 100 | 81 | 53       | 52 | 56   | 49 | .06  |
| 4/17/87 | 60   | 51 | .01   | 100 | 80 | 53       | 52 | 56   | 50 | .13  |
| 4/18/87 | 72   | 44 | TRACE | 100 | 51 | 54       | 52 | 66   | 47 | .09  |
| 4/19/87 | 77   | 47 | --    | 100 | 41 | 59       | 54 | 70   | 51 | .20  |
| 4/20/87 | 81   | 52 | --    | 100 | 40 | 61       | 57 | 72   | 54 | .17  |
| 4/21/87 | 84   | 55 | --    | 97  | 39 | 62       | 58 | 76   | 56 | .24  |
| 4/22/87 | 84   | 55 | --    | 99  | 40 | 63       | 60 | 77   | 58 | .23  |
| 4/23/87 | 65   | 52 | .11   | 99  | 38 | 61       | 60 | 72   | 58 | .19  |
| 4/24/87 | 65   | 43 | --    | 100 | 61 | 62       | 58 | 66   | 52 | .15  |
| 4/25/87 | 64   | 37 | --    | 100 | 39 | 59       | 55 | 72   | 46 | .21  |
| 4/26/87 | 69   | 40 | --    | 100 | 35 | 60       | 56 | 71   | 50 | .21  |
| 4/27/87 | 74   | 47 | .02   | 100 | 49 | 60       | 57 | 69   | 52 | .21  |
| 4/28/87 | 63   | 48 | --    | 84  | 33 | 60       | 57 | 67   | 50 | .22  |
| 4/29/87 | 80   | 48 | --    | 74  | 31 | 60       | 56 | 70   | 50 | .32  |
| 4/30/87 | 73   | 50 | --    | 70  | 39 | 63       | 58 | 75   | 56 | .25  |

\*\*\*\*\*A '!' ABOVE AN AVERAGE VALUE MEANS THERE IS \*\*\*\*\*  
 \*\*\*\*\* ONE OR MORE OF MISSING DATA FOR THAT ITEM \*\*\*\*\*

#### SUMMARY

| AVERAGES   | FOR PERIOD |         |         |         |       | ACCUMULATIONS |                   |                   |                  |                  | FOR PERIOD |      |     |                  |
|------------|------------|---------|---------|---------|-------|---------------|-------------------|-------------------|------------------|------------------|------------|------|-----|------------------|
|            | STATION    | TEMP HI | TEMP LO | PER AVG | RH HI | RH LO         | SOILTEMP GRASS HI | SOILTEMP GRASS LO | SOILTEMP BARE HI | SOILTEMP BARE LO | PCPN       | EVAP | GDD | HEAT 50 DEG. MOD |
| SPINDLETOP | 65         | 44      | 55      | 96      | 50    | 53            | 51                | 61                | 47               | 2.40             | 4.53       | 263  | 323 | 16               |

#### EXTREMES FOR PERIOD

| STATION    | TEMP HI | TEMP LO | PCPN | RH HI | RH LO | SOILTEMP GRASS HI | SOILTEMP GRASS LO | SOILTEMP BARE HI | SOILTEMP BARE LO | EVAP | GDD | HEAT 50 DEG. MOD | COOL DEG. DAYS |
|------------|---------|---------|------|-------|-------|-------------------|-------------------|------------------|------------------|------|-----|------------------|----------------|
| SPINDLETOP | 84      | 30      | 1.25 | 100   | 31    | 63                | 39                | 77               | 33               | .32  | 20  | 33               | 5              |



### III A. May Climatological Data, Spindletop

|         |  | TEMP |    | PCPN | RH  |    | SOILTEMP |    |      |    | EVAP |
|---------|--|------|----|------|-----|----|----------|----|------|----|------|
|         |  | HI   | LO |      | HI  | LO | GRASS    |    | BARE |    |      |
|         |  |      |    |      |     |    | HI       | LO | HI   | LO |      |
| 5/ 1/87 |  | 76   | 42 | --   | 100 | 34 | 62       | 57 | 76   | 53 | .18  |
| 5/ 2/87 |  | 85   | 62 | --   | 88  | 36 | 63       | 59 | 78   | 60 | .31  |
| 5/ 3/87 |  | 80   | 52 | .10  | 100 | 76 | 64       | 61 | 80   | 62 | .05  |
| 5/ 4/87 |  | 63   | 49 | 1.01 | 100 | 51 | 67       | 60 | 69   | 56 | .24  |
| 5/ 5/87 |  | 69   | 40 | --   | 100 | 40 | 63       | 59 | 69   | 50 | .20  |
| 5/ 6/87 |  | 73   | 42 | --   | 93  | 35 | 64       | 60 | 70   | 51 | .24  |
| 5/ 7/87 |  | 78   | 46 | --   | 100 | 32 | 64       | 60 | 74   | 54 | .25  |
| 5/ 8/87 |  | 74   | 42 | --   | 100 | 30 | 64       | 61 | 73   | 54 | .27  |
| 5/ 9/87 |  | 78   | 46 | --   | 85  | 36 | 65       | 61 | 78   | 54 | .26  |
| 5/10/87 |  | 82   | 53 | --   | 87  | 38 | 66       | 62 | 80   | 57 | .33  |
| 5/11/87 |  | 83   | 64 | --   | 97  | 44 | 67       | 64 | 80   | 62 | .26  |
| 5/12/87 |  | 80   | 61 | --   | 99  | 61 | 67       | 64 | 82   | 63 | .20  |
| 5/13/87 |  | 82   | 53 | --   | 87  | 53 | 69       | 65 | 83   | 63 | .30  |
| 5/14/87 |  | 85   | 62 | --   | 100 | 67 | 70       | 66 | 84   | 64 | .34  |
| 5/15/87 |  | 79   | 66 | .03  | 100 | 53 | 69       | 67 | 82   | 68 | .20  |
| 5/16/87 |  | 78   | 47 | --   | 87  | 37 | 69       | 64 | 81   | 59 | .24  |
| 5/17/87 |  | 88   | 52 | --   | 78  | 48 | 70       | 65 | 84   | 61 | .19  |
| 5/18/87 |  | 87   | 74 | --   | 92  | 57 | 70       | 67 | 83   | 69 | .36  |
| 5/19/87 |  | 83   | 69 | .45  | 100 | 63 | 70       | 68 | 81   | 69 | .16  |
| 5/20/87 |  | 87   | 67 | --   | 100 | 63 | 72       | 68 | 82   | 66 | .13  |
| 5/21/87 |  | 80   | 69 | --   | 100 | 68 | 72       | 70 | 81   | 69 | .18  |
| 5/22/87 |  | 85   | 67 | --   | 100 | 65 | 72       | 70 | 81   | 68 | .19  |
| 5/23/87 |  | 86   | 68 | --   | 100 | 52 | 75       | 70 | 85   | 70 | .28  |
| 5/24/87 |  | 84   | 58 | --   | 98  | 60 | 75       | 70 | 85   | 68 | .20  |
| 5/25/87 |  | 88   | 65 | .09  | 100 | 52 | 73       | 70 | 84   | 70 | .26  |
| 5/26/87 |  | 86   | 74 | --   | 100 | 52 | 74       | 71 | 83   | 70 | .27  |
| 5/27/87 |  | 89   | 63 | --   | 100 | 85 | 74       | 70 | 85   | 68 | .22  |
| 5/28/87 |  | 90   | 68 | --   | 98  | 50 | 74       | 71 | 83   | 71 | .18  |
| 5/29/87 |  | 91   | 67 | --   | 100 | 50 | 75       | 71 | 86   | 72 | .24  |
| 5/30/87 |  | 90   | 70 | --   | 94  | 43 | 75       | 72 | 86   | 73 | .25  |
| 5/31/87 |  | 85   | 61 | .02  | 100 | 52 | 75       | 71 | 86   | 70 | .18  |

\*\*\*\*\*A '\*' ABOVE AN AVERAGE VALUE MEANS THERE IS \*\*\*\*\*  
 \*\*\*\*\* ONE OR MORE OF MISSING DATA FOR THAT ITEM \*\*\*\*\*

| AVERAGES   | SUMMARY             |      |      |          |       |               |      |      |      |      | GDD  | HEAT | COOL |            |
|------------|---------------------|------|------|----------|-------|---------------|------|------|------|------|------|------|------|------------|
|            | FOR PERIOD          |      |      |          |       | ACCUMULATIONS |      |      |      |      |      |      |      | FOR PERIOD |
| STATION    | TEMP                | PER  | RH   | SOILTEMP | PCPN  | EVAP          | GDD  | HEAT | COOL |      |      |      |      |            |
|            | HI                  | LO   | AVG  | HI       | LO    | GRASS         | BARE | 50   | DEG. | DEG. | MOD  | DAYS | DAYS | DAYS       |
|            | HI                  | LO   |      | HI       | LO    | HI            | LO   | HI   | LO   | HI   | LO   |      |      |            |
| SPINDLETOP | 82                  | 59   | 71   | 96       | 51    | 69            | 66   | 80   | 63   | 1.70 | 7.16 | 651  | 47   | 220        |
| STATION    | EXTREMES FOR PERIOD |      |      |          |       |               |      |      |      |      |      |      |      |            |
|            | TEMP                | PCPN | RH   | SOILTEMP | EVAP  | GDD           | HEAT | COOL |      |      |      |      |      |            |
|            | HI                  | LO   | HI   | LO       | GRASS | BARE          | 50   | DEG. | DEG. | MOD  | DAYS | DAYS | DAYS | DAYS       |
|            | HI                  | LO   | HI   | LO       | HI    | LO            | HI   | LO   | HI   | LO   |      |      |      |            |
| SPINDLETOP | 91                  | 40   | 1.01 | 100      | 30    | 75            | 57   | 86   | 50   | .36  | 30   | 10   | 16   |            |

### III A. June Climatological Data, Spindletop

|         | TEMP |    | PCPN | RH  |    | SOILTEMP |    |      |    | EVAP |
|---------|------|----|------|-----|----|----------|----|------|----|------|
|         | HI   | LO |      | HI  | LO | GRASS    |    | BARE |    |      |
|         |      |    |      |     |    | HI       | LO | HI   | LO |      |
| 6/ 1/87 | 85   | 72 | .01  | 100 | 56 | 74       | 72 | 84   | 72 | .24  |
| 6/ 2/87 | 84   | 65 | 1.13 | 100 | 69 | 75       | 72 | 80   | 70 | .29  |
| 6/ 3/87 | 83   | 67 | .33  | 100 | 61 | 75       | 71 | 80   | 69 | .27  |
| 6/ 4/87 | 80   | 64 | --   | 95  | 37 | 76       | 73 | 79   | 68 | .36  |
| 6/ 5/87 | 79   | 60 | --   | 100 | 29 | 76       | 72 | 81   | 66 | .32  |
| 6/ 6/87 | 86   | 53 | --   | 99  | 32 | 78       | 70 | 86   | 63 | .33  |
| 6/ 7/87 | 89   | 76 | --   | 88  | 32 | 75       | 72 | 85   | 68 | .35  |
| 6/ 8/87 | 90   | 73 | --   | 91  | 42 | 76       | 72 | 85   | 70 | .38  |
| 6/ 9/87 | 92   | 63 | 1.27 | 100 | 43 | 77       | 74 | 86   | 70 | .30  |
| 6/10/87 | 75   | 58 | --   | 92  | 37 | 75       | 69 | 75   | 63 | .21  |
| 6/11/87 | 87   | 58 | --   | 85  | 46 | 74       | 70 | 76   | 63 | .21  |
| 6/12/87 | 79   | 68 | 1.32 | 100 | 80 | 73       | 71 | 77   | 68 | .22  |
| 6/13/87 | 89   | 66 | --   | 99  | 48 | 76       | 71 | 81   | 67 | .23  |
| 6/14/87 | 88   | 63 | --   | 100 | 40 | 78       | 73 | 84   | 69 | .32  |
| 6/15/87 | 90   | 68 | --   | 98  | 48 | 78       | 75 | 81   | 71 | .23  |
| 6/16/87 | 90   | 72 | .02  | 100 | 55 | 78       | 75 | 83   | 73 | .21  |
| 6/17/87 | 85   | 65 | --   | 99  | 49 | 79       | 75 | 82   | 70 | .21  |
| 6/18/87 | 87   | 69 | --   | 91  | 60 | 77       | 74 | 81   | 71 | .18  |
| 6/19/87 | 86   | 69 | --   | 98  | 61 | 77       | 75 | 81   | 72 | .24  |
| 6/20/87 | 82   | 73 | .61  | 98  | 78 | 78       | 75 | 81   | 73 | .19  |
| 6/21/87 | 85   | 69 | --   | 96  | 70 | 76       | 74 | 78   | 70 | .20  |
| 6/22/87 | 86   | 71 | .78  | 100 | 67 | 76       | 74 | 79   | 70 | .26  |
| 6/23/87 | 86   | 70 | .22  | 95  | 58 | 78       | 74 | 81   | 70 | .28  |
| 6/24/87 | 88   | 66 | --   | 92  | 55 | 78       | 75 | 84   | 70 | .19  |
| 6/25/87 | 86   | 69 | .02  | 91  | 55 | 79       | 76 | 84   | 72 | .27  |
| 6/26/87 | 82   | 67 | .01  | 91  | 38 | 79       | 76 | 82   | 71 | .25  |
| 6/27/87 | 77   | 57 | --   | 86  | 32 | 73       | 70 | 85   | 66 | .20  |
| 6/28/87 | 83   | 55 | --   | 92  | 27 | 78       | 72 | 84   | 65 | .21  |
| 6/29/87 | 90   | 57 | .24  | 94  | 44 | 77       | 74 | 81   | 70 | .38  |
| 6/30/87 | 89   | 75 | --   | 83  | 40 | 78       | 75 | 86   | 71 | .34  |

\*\*\*\*\*A '\*' ABOVE AN AVERAGE VALUE MEANS THERE IS \*\*\*\*\*  
 \*\*\*\*\* ONE OR MORE OF MISSING DATA FOR THAT ITEM \*\*\*\*\*

| AVERAGES   | SUMMARY    |     |     |          |    |               |      |     |      |      |            |     |     |
|------------|------------|-----|-----|----------|----|---------------|------|-----|------|------|------------|-----|-----|
|            | FOR PERIOD |     |     |          |    | ACCUMULATIONS |      |     |      |      | FOR PERIOD |     |     |
| STATION    | TEMP       | PER | RH  | SOILTEMP |    | PCPN          | EVAP | GDD | HEAT | COOL |            |     |     |
|            | HI         | LO  | AVG | HI       | LO | GRASS         | BARE | 50  | DEG. | DEG. |            |     |     |
|            |            |     |     |          |    | HI            | LO   | HI  | LO   | MOD  |            |     |     |
|            |            |     |     |          |    |               |      |     |      | DAYS |            |     |     |
| SPINDLETOP | 85         | 66  | 76  | 95       | 50 | 77            | 73   | 82  | 69   | 5.96 | 7.87       | 758 | 327 |

| STATION    | EXTREMES FOR PERIOD |      |      |          |       |      |     |      |      |     |    |    |
|------------|---------------------|------|------|----------|-------|------|-----|------|------|-----|----|----|
|            | TEMP                | PCPN | RH   | SOILTEMP |       | EVAP | GDD | HEAT | COOL |     |    |    |
|            | HI                  | LO   | HI   | LO       | GRASS | BARE | 50  | DEG. | DEG. |     |    |    |
|            |                     |      |      |          | HI    | LO   | HI  | LO   | MOD  |     |    |    |
|            |                     |      |      |          |       |      |     |      | DAYS |     |    |    |
| SPINDLETOP | 92                  | 53   | 1.32 | 100      | 27    | 79   | 69  | 86   | 63   | .38 | 31 | 18 |

### III A. July Climatological Data, Spindletop

|         |  | TEMP |    | PCPN  | RH  |    | SOILTEMP |    |      |    | EVAP |
|---------|--|------|----|-------|-----|----|----------|----|------|----|------|
|         |  | HI   | LO |       | HI  | LO | GRASS    |    | BARE |    |      |
|         |  |      |    |       |     | HI | LO       | HI | LO   | HI | LO   |
| 7/ 1/87 |  | 84   | 72 | .63   | 90  | 65 | 78       | 75 | 85   | 73 | .24  |
| 7/ 2/87 |  | 81   | 71 | .03   | 95  | 82 | 78       | 75 | 78   | 70 | .19  |
| 7/ 3/87 |  | 88   | 67 | --    | 96  | 70 | 78       | 74 | 82   | 69 | .19  |
| 7/ 4/87 |  | 87   | 69 | .06   | 97  | 66 | 80       | 76 | 84   | 72 | .19  |
| 7/ 5/87 |  | 83   | 71 | --    | 94  | 62 | 79       | 76 | 82   | 71 | .26  |
| 7/ 6/87 |  | 89   | 67 | .21   | 95  | 64 | 79       | 76 | 84   | 70 | .31  |
| 7/ 7/87 |  | 88   | 69 | .13   | 97  | 66 | 80       | 75 | 84   | 70 | .29  |
| 7/ 8/87 |  | 88   | 72 | --    | 86  | 76 | 80       | 77 | 83   | 71 | .24  |
| 7/ 9/87 |  | 87   | 72 | --    | 100 | 66 | 80       | 77 | 86   | 73 | .23  |
| 7/10/87 |  | 87   | 71 | --    | 94  | 65 | 81       | 77 | 87   | 63 | .21  |
| 7/11/87 |  | 88   | 70 | .01   | 93  | 62 | 81       | 78 | 88   | 64 | .26  |
| 7/12/87 |  | 90   | 65 | .07   | 93  | 59 | 80       | 76 | 88   | 70 | .18  |
| 7/13/87 |  | 86   | 71 | .52   | 94  | 73 | 80       | 77 | 83   | 72 | .23  |
| 7/14/87 |  | 78   | 68 | .23   | 94  | 55 | 79       | 76 | 78   | 70 | .26  |
| 7/15/87 |  | 78   | 56 | TRACE | 94  | 51 | 77       | 74 | 79   | 64 | .24  |
| 7/16/87 |  | 81   | 58 | .21   | 95  | 44 | 78       | 73 | 78   | 64 | .27  |
| 7/17/87 |  | 88   | 61 | --    | 91  | 41 | 81       | 73 | 82   | 63 | .26  |
| 7/18/87 |  | 90   | 65 | --    | 89  | 41 | 84       | 72 | 86   | 64 | .27  |
| 7/19/87 |  | 91   | 67 | --    | 90  | 40 | 86       | 73 | 94   | 63 | .28  |
| 7/20/87 |  | 92   | 73 | --    | 96  | 44 | 88       | 72 | 98   | 62 | .29  |
| 7/21/87 |  | 92   | 64 | --    | 98  | 46 | 84       | 70 | 92   | 74 | .24  |
| 7/22/87 |  | 92   | 66 | --    | 96  | 42 | 93       | 74 | 92   | 72 | .31  |
| 7/23/87 |  | 95   | 65 | --    | 94  | 38 | 82       | 77 | 98   | 74 | .33  |
| 7/24/87 |  | 95   | 68 | --    | 93  | 43 | 82       | 77 | 97   | 73 | .34  |
| 7/25/87 |  | 94   | 70 | --    | 94  | 39 | 83       | 76 | 96   | 73 | .32  |
| 7/26/87 |  | 94   | 71 | --    | 94  | 48 | 85       | 73 | 95   | 72 | .32  |
| 7/27/87 |  | 94   | 68 | .10   | 98  | 48 | 84       | 75 | 93   | 69 | .33  |
| 7/28/87 |  | 91   | 66 | .75   | 98  | 55 | 84       | 77 | 92   | 72 | .38  |
| 7/29/87 |  | 85   | 61 | --    | 92  | 51 | 84       | 76 | 85   | 68 | .24  |
| 7/30/87 |  | 88   | 65 | --    | 90  | 40 | 84       | 73 | 90   | 66 | .29  |
| 7/31/87 |  | 94   | 67 | --    | 92  | 54 | 85       | 74 | 89   | 67 | .30  |

\*\*\*\*\*A '\*' ABOVE AN AVERAGE VALUE MEANS THERE IS \*\*\*\*\*  
 \*\*\*\*\* ONE OR MORE OF MISSING DATA FOR THAT ITEM \*\*\*\*\*

| AVERAGES   | SUMMARY    |     |     |          |      |       |               |      |      |      |      |     |            |
|------------|------------|-----|-----|----------|------|-------|---------------|------|------|------|------|-----|------------|
|            | FOR PERIOD |     |     |          |      |       | ACCUMULATIONS |      |      |      |      |     | FOR PERIOD |
| STATION    | TEMP       | PER | RH  | SOILTEMP | PCPN | EVAP  | GDD           | HEAT | COOL |      |      |     |            |
|            | HI         | LO  | AVG | HI       | LO   | GRASS | BARE          | 50   | DEG. | DEG. |      |     |            |
|            |            |     |     | HI       | LO   | HI    | LO            | MOD  | DAYS | DAYS |      |     |            |
| SPINDLETOP | 88         | 67  | 78  | 94       | 55   | 82    | 75            | 87   | 69   | 2.95 | 8.29 | 818 | 404        |

| STATION    | EXTREMES FOR PERIOD |      |     |          |       |      |      |      |      |      |      |    |  |
|------------|---------------------|------|-----|----------|-------|------|------|------|------|------|------|----|--|
|            | TEMP                | PCPN | RH  | SOILTEMP | EVAP  | GDD  | HEAT | COOL |      |      |      |    |  |
|            | HI                  | LO   | HI  | LO       | GRASS | BARE | 50   | DEG. | DEG. |      |      |    |  |
|            |                     |      | HI  | LO       | HI    | LO   | HI   | LO   | MOD  | DAYS | DAYS |    |  |
| SPINDLETOP | 95                  | 56   | .75 | 100      | 38    | 93   | 70   | 98   | 62   | .38  | 30   | 18 |  |

### III A. August Climatological Data, Spindletop

|         | TEMP |    | PCPN | RH  |    | SOILTEMP |    |      |    | EVAP |
|---------|------|----|------|-----|----|----------|----|------|----|------|
|         | HI   | LO |      | HI  | LO | GRASS    |    | BARE |    |      |
|         |      |    |      |     |    | HI       | LO | HI   | LO |      |
| 8/ 1/87 | 96   | 69 | .04  | 89  | 52 | 86       | 76 | 90   | 67 | .30  |
| 8/ 2/87 | 97   | 68 | --   | 88  | 45 | 87       | 77 | 91   | 70 | .31  |
| 8/ 3/87 | 96   | 69 | .54  | 94  | 58 | 84       | 77 | 92   | 74 | .24  |
| 8/ 4/87 | 94   | 68 | .02  | 98  | 56 | 84       | 78 | 88   | 74 | .28  |
| 8/ 5/87 | 88   | 64 | --   | 96  | 60 | 83       | 78 | 84   | 72 | .22  |
| 8/ 6/87 | 92   | 67 | --   | 95  | 54 | 83       | 78 | 90   | 72 | .22  |
| 8/ 7/87 | 93   | 72 | --   | 94  | 50 | 83       | 79 | 94   | 77 | .28  |
| 8/ 8/87 | 91   | 71 | --   | 92  | 40 | 86       | 78 | 93   | 78 | .26  |
| 8/ 9/87 | 90   | 66 | .05  | 98  | 64 | 83       | 79 | 91   | 80 | .26  |
| 8/10/87 | 80   | 61 | --   | 94  | 64 | 80       | 75 | 80   | 76 | .16  |
| 8/11/87 | 86   | 58 | --   | 92  | 48 | 84       | 75 | 84   | 73 | .12  |
| 8/12/87 | 91   | 66 | --   | 87  | 58 | 84       | 76 | 92   | 74 | .25  |
| 8/13/87 | 90   | 74 | --   | 87  | 56 | 82       | 77 | 91   | 78 | .27  |
| 8/14/87 | 91   | 72 | --   | 86  | 55 | 82       | 77 | 94   | 78 | .26  |
| 8/15/87 | 93   | 68 | --   | 89  | 56 | 83       | 78 | 94   | 77 | .28  |
| 8/16/87 | 92   | 70 | --   | 80  | 34 | 84       | 77 | 94   | 78 | .27  |
| 8/17/87 | 89   | 75 | --   | 92  | 60 | 83       | 76 | 89   | 80 | .25  |
| 8/18/87 | 92   | 63 | --   | 91  | 46 | 84       | 77 | 93   | 75 | .29  |
| 8/19/87 | 90   | 61 | --   | 86  | 34 | 84       | 76 | 92   | 75 | .30  |
| 8/20/87 | 91   | 59 | --   | 88  | 44 | 83       | 75 | 92   | 73 | .26  |
| 8/21/87 | 91   | 64 | --   | 87  | 52 | 84       | 76 | 88   | 75 | .25  |
| 8/22/87 | 97   | 73 | .04  | 88  | 50 | 86       | 78 | 93   | 78 | .31  |
| 8/23/87 | 83   | 59 | --   | 84  | 50 | 86       | 79 | 89   | 74 | .21  |
| 8/24/87 | 82   | 56 | --   | 72  | 38 | 80       | 74 | 88   | 73 | .22  |
| 8/25/87 | 83   | 59 | --   | 88  | 42 | 78       | 73 | 82   | 72 | .18  |
| 8/26/87 | 95   | 65 | --   | 84  | 52 | 82       | 75 | 89   | 72 | .27  |
| 8/27/87 | 91   | 73 | .08  | 99  | 53 | 81       | 76 | 87   | 77 | .24  |
| 8/28/87 | 79   | 69 | --   | 96  | 72 | 81       | 77 | 81   | 74 | .17  |
| 8/29/87 | 80   | 56 | --   | 93  | 50 | 80       | 75 | 83   | 68 | .16  |
| 8/30/87 | 79   | 53 | --   | 100 | 35 | 79       | 73 | 82   | 67 | .14  |
| 8/31/87 | 82   | 59 | --   | 90  | 49 | 77       | 74 | 80   | 68 | .16  |

\*\*\*\*\*A '\*' ABOVE AN AVERAGE VALUE MEANS THERE IS \*\*\*\*\*  
 \*\*\*\*\* ONE OR MORE OF MISSING DATA FOR THAT ITEM \*\*\*\*\*

#### SUMMARY

#### AVERAGES

#### FOR PERIOD

#### ACCUMULATIONS

#### FOR PERIOD

| STATION    | TEMP |    |     | RH |    | SOILTEMP |    |      |    | PCPN | EVAP | GDD | HEAT | COOL |
|------------|------|----|-----|----|----|----------|----|------|----|------|------|-----|------|------|
|            | HI   | LO | AVG | HI | LO | GRASS    |    | BARE |    |      |      |     |      |      |
|            |      |    |     |    |    | HI       | LO | HI   | LO |      |      | MOD | DAYS | DAYS |
| SPINDLETOP | 89   | 65 | 77  | 90 | 51 | 83       | 76 | 89   | 74 | .77  | 7.39 | 783 |      | 387  |

#### EXTREMES FOR PERIOD

| STATION    | TEMP |    | PCPN | RH  |    | SOILTEMP |    |      |    | EVAP | GDD | HEAT | COOL |      |
|------------|------|----|------|-----|----|----------|----|------|----|------|-----|------|------|------|
|            | HI   | LO |      | HI  | LO | GRASS    |    | BARE |    |      |     |      |      | 50   |
|            |      |    |      |     |    | HI       | LO | HI   | LO |      |     | MOD  | DAYS | DAYS |
| SPINDLETOP | 97   | 53 | .54  | 100 | 34 | 87       | 73 | 94   | 67 | .31  | 31  |      | 20   |      |

### III A. September Climatological Data, Spindletop

|         | TEMP |    | PCPN  | RH |    | SOILTEMP |    |      |    | EVAP |
|---------|------|----|-------|----|----|----------|----|------|----|------|
|         | HI   | LO |       | HI | LO | GRASS    |    | BARE |    |      |
|         |      |    |       |    |    | HI       | LO | HI   | LO |      |
| 9/ 1/87 | 80   | 51 | --    | 92 | 41 | 77       | 72 | 83   | 64 | .19  |
| 9/ 2/87 | 84   | 49 | --    | 86 | 39 | 76       | 71 | 84   | 65 | .21  |
| 9/ 3/87 | 87   | 56 | --    | 92 | 43 | 76       | 72 | 85   | 68 | .23  |
| 9/ 4/87 | 89   | 66 | --    | 94 | 54 | 76       | 73 | 86   | 69 | .25  |
| 9/ 5/87 | 86   | 64 | --    | 76 | 53 | 77       | 74 | 86   | 71 | .21  |
| 9/ 6/87 | 84   | 65 | --    | 91 | 61 | 76       | 72 | 82   | 72 | .22  |
| 9/ 7/87 | 83   | 67 | TRACE | 90 | 21 | 75       | 71 | 80   | 73 | .21  |
| 9/ 8/87 | 86   | 58 | --    | 78 | 32 | 78       | 72 | 84   | 68 | .20  |
| 9/ 9/87 | 87   | 56 | --    | 83 | 34 | 78       | 70 | 85   | 68 | .22  |
| 9/10/87 | 89   | 61 | --    | 94 | 37 | 78       | 71 | 83   | 72 | .24  |
| 9/11/87 | 89   | 67 | .32   | 97 | 66 | 75       | 72 | 85   | 70 | .26  |
| 9/12/87 | 79   | 67 | --    | 94 | 66 | 76       | 70 | 75   | 69 | .11  |
| 9/13/87 | 84   | 63 | --    | 93 | 41 | 76       | 70 | 78   | 67 | .15  |
| 9/14/87 | 89   | 61 | --    | 88 | 32 | 74       | 70 | 86   | 64 | .17  |
| 9/15/87 | 88   | 68 | --    | 84 | 38 | 75       | 72 | 81   | 66 | .24  |
| 9/16/87 | 87   | 70 | .04   | 92 | 44 | 76       | 72 | 81   | 72 | .17  |
| 9/17/87 | 86   | 72 | --    | 86 | 45 | 75       | 72 | 80   | 71 | .20  |
| 9/18/87 | 84   | 63 | --    | 91 | 44 | 75       | 71 | 82   | 69 | .21  |
| 9/19/87 | 79   | 53 | --    | 94 | 26 | 73       | 69 | 74   | 70 | .14  |
| 9/20/87 | 79   | 53 | --    | 94 | 26 | 71       | 66 | 76   | 62 | .16  |
| 9/21/87 | 75   | 57 | --    | 71 | 38 | 69       | 66 | 74   | 59 | .10  |
| 9/22/87 | 69   | 48 | --    | 80 | 40 | 69       | 66 | 74   | 59 | .26  |
| 9/23/87 | 75   | 45 | --    | 96 | 47 | 69       | 65 | 73   | 58 | .15  |
| 9/24/87 | 79   | 49 | --    | 88 | 33 | 69       | 65 | 77   | 58 | .21  |
| 9/25/87 | 79   | 45 | --    | 84 | 31 | 70       | 66 | 78   | 60 | .20  |
| 9/26/87 | 84   | 42 | --    | 75 | 29 | 70       | 65 | 80   | 59 | .22  |
| 9/27/87 | 88   | 48 | --    | 77 | 25 | 71       | 66 | 81   | 61 | .26  |
| 9/28/87 | 84   | 60 | --    |    |    |          |    |      |    |      |
| 9/29/87 | 76   | 64 | .62   |    |    |          |    |      |    |      |
| 9/30/87 | 71   | 53 | --    |    |    |          |    |      |    |      |

\*\*\*\*\*A '\*' ABOVE AN AVERAGE VALUE MEANS THERE IS \*\*\*\*\*  
 \*\*\*\*\* ONE OR MORE OF MISSING DATA FOR THAT ITEM \*\*\*\*\*

| AVERAGES            |            | SUMMARY ACCUMULATIONS |         |            |       |                   |                   |                  |                  |             |      |      |      |             |           |
|---------------------|------------|-----------------------|---------|------------|-------|-------------------|-------------------|------------------|------------------|-------------|------|------|------|-------------|-----------|
| STATION             | FOR PERIOD |                       |         | FOR PERIOD |       |                   |                   |                  |                  |             | PCPN | EVAP | GDD  | HEAT        | COOL      |
|                     | HI         | LO                    | PER AVG | RH HI      | RH LO | SOILTEMP GRASS HI | SOILTEMP GRASS LO | SOILTEMP BARE HI | SOILTEMP BARE LO | 50 DEG. MOD |      |      |      |             |           |
| SPINDLETOP          | 83         | 58                    | 71      | 87         | 40    | 74                | 70                | 80               | 66               | .98         | 5.39 | 618  | 20   | 185         |           |
| EXTREMES FOR PERIOD |            |                       |         |            |       |                   |                   |                  |                  |             |      |      |      |             |           |
| STATION             | TEMP       |                       |         | PCPN       |       | RH                |                   | SOILTEMP         |                  | EVAP        | GDD  | HEAT | COOL |             |           |
|                     | HI         | LO                    | PER AVG | HI         | LO    | GRASS HI          | GRASS LO          | BARE HI          | BARE LO          |             |      |      |      | 50 DEG. MOD | DEG. DAYS |
| SPINDLETOP          | 89         | 42                    | .62     | 97         | 21    | 78                | 65                | 86               | 58               | .26         | 29   | 6    | 14   |             |           |

### III B. April Climatological Data, Princeton

|         |  | TEMP |    | PCPN  | RH  |    | SOILTEMP |    |      |    | EVAP |
|---------|--|------|----|-------|-----|----|----------|----|------|----|------|
|         |  | HI   | LO |       | HI  | LO | GRASS    |    | BARE |    |      |
|         |  |      |    |       |     | HI | LO       | HI | LO   | HI | LO   |
| 4/ 1/87 |  | 63   | 28 | --    | 96  | 48 | 54       | 50 |      |    |      |
| 4/ 2/87 |  | 60   | 33 | .41   | 98  | 36 | 54       | 48 |      |    |      |
| 4/ 3/87 |  | 42   | 24 | --    | 94  | 62 | 55       | 49 |      |    |      |
| 4/ 4/87 |  | 48   | 26 | --    | 78  | 24 | 54       | 48 |      |    |      |
| 4/ 5/87 |  | 52   | 36 | --    | 58  | 38 | 53       | 42 |      |    |      |
| 4/ 6/87 |  | 58   | 34 | --    | 100 | 44 | 52       | 50 |      |    |      |
| 4/ 7/87 |  | 58   | 38 | --    | 94  | 48 | 52       | 48 |      |    |      |
| 4/ 8/87 |  | 72   | 41 | --    | 92  | 28 | 54       | 50 |      |    |      |
| 4/ 9/87 |  | 72   | 40 | --    | 84  | 18 | 54       | 50 |      |    |      |
| 4/10/87 |  | 78   | 40 | --    | 70  | 22 | 56       | 50 |      |    |      |
| 4/11/87 |  | 66   | 38 | .33   | 98  | 22 | 58       | 52 |      |    |      |
| 4/12/87 |  | 68   | 48 | --    | 84  | 30 | 58       | 54 |      |    |      |
| 4/13/87 |  | 78   | 56 | --    | 78  | 32 | 60       | 58 |      |    |      |
| 4/14/87 |  | 76   | 55 | 1.07  | 98  | 56 | 61       | 58 |      |    |      |
| 4/15/87 |  | 65   | 49 | .20   | 98  | 82 | 60       | 54 |      |    |      |
| 4/16/87 |  | 59   | 48 | .27   | 98  | 82 | 60       | 54 |      |    |      |
| 4/17/87 |  | 68   | 50 | .08   | 96  | 62 | 62       | 56 |      |    |      |
| 4/18/87 |  | 75   | 45 | --    | 98  | 64 | 62       | 56 |      |    |      |
| 4/19/87 |  | 80   | 48 | --    | 98  | 32 | 62       | 50 |      |    |      |
| 4/20/87 |  | 85   | 52 | --    | 98  | 28 | 64       | 52 |      |    |      |
| 4/21/87 |  | 89   | 54 | --    | 98  | 32 | 64       | 50 |      |    |      |
| 4/22/87 |  | 88   | 58 | --    | 98  | 72 | 62       | 50 |      |    |      |
| 4/23/87 |  | 65   | 44 | TRACE | 98  | 42 | 60       | 40 |      |    |      |
| 4/24/87 |  | 62   | 45 | .03   | 98  | 62 | 64       | 52 |      |    |      |
| 4/25/87 |  | 72   | 48 | --    | 98  | 58 | 64       | 52 |      |    |      |
| 4/26/87 |  | 80   | 42 | --    | 98  | 26 | 64       | 52 |      |    |      |
| 4/27/87 |  | 76   | 52 | --    | 98  | 22 | 64       | 52 |      |    |      |
| 4/28/87 |  | 68   | 46 | --    | 74  | 28 | 64       | 50 |      |    |      |
| 4/29/87 |  | 82   | 58 | --    | 60  | 32 | 66       | 59 |      |    |      |
| 4/30/87 |  | 76   | 60 | --    | 78  | 50 | 68       | 58 |      |    |      |

\*\*\*\*\* A '\*' ABOVE AN AVERAGE VALUE MEANS THERE IS \*\*\*\*\*  
 \*\*\*\*\* ONE OR MORE OF MISSING DATA FOR THAT ITEM \*\*\*\*\*

#### SUMMARY

| AVERAGES  | FOR PERIOD |         |         |         |       |       | ACCUMULATIONS     |                  |      |      | FOR PERIOD |                |                |
|-----------|------------|---------|---------|---------|-------|-------|-------------------|------------------|------|------|------------|----------------|----------------|
|           | STATION    | TEMP HI | TEMP LO | PER AVG | RH HI | RH LO | SOILTEMP GRASS HI | SOILTEMP BARE LO | PCPN | EVAP | GDD 50 MOD | HEAT DEG. DAYS | COOL DEG. DAYS |
| PRINCETON | 69         | 45      | 57      | 90      | 43    | 60    | 51                |                  | 2.39 | 319  | 267        | 30             |                |

  

| STATION   | TEMP |    | PCPN | RH  |    | SOILTEMP |         | EVAP | GDD 50 MOD | HEAT DEG. DAYS | COOL DEG. DAYS |
|-----------|------|----|------|-----|----|----------|---------|------|------------|----------------|----------------|
|           | HI   | LO |      | HI  | LO | GRASS HI | BARE LO |      |            |                |                |
| PRINCETON | 89   | 24 | 1.07 | 100 | 18 | 68       | 40      | 22   | 32         | 8              |                |

### III B. May Climatological Data, Princeton

|         |  | TEMP |    | PCPN | RH  |    | SOILTEMP |    |      |    | EVAP |
|---------|--|------|----|------|-----|----|----------|----|------|----|------|
|         |  | HI   | LO |      | HI  | LO | GRASS    |    | BARE |    |      |
|         |  | HI   | LO |      | HI  | LO | HI       | LO | HI   | LO |      |
| 5/ 1/87 |  | 77   | 52 | --   | 90  | 60 | 68       | 60 |      |    |      |
| 5/ 2/87 |  | 74   | 56 | --   | 98  | 78 | 68       | 60 |      |    |      |
| 5/ 3/87 |  | 73   | 60 | .37  | 100 | 80 | 68       | 60 |      |    |      |
| 5/ 4/87 |  | 70   | 58 | .03  | 100 | 82 | 68       | 58 |      |    |      |
| 5/ 5/87 |  | 74   | 48 | --   | 100 | 72 | 68       | 60 |      |    |      |
| 5/ 6/87 |  | 75   | 45 | --   | 98  | 32 | 69       | 62 |      |    |      |
| 5/ 7/87 |  | 80   | 48 | --   | 100 | 22 | 69       | 60 |      |    |      |
| 5/ 8/87 |  | 78   | 48 | --   | 100 | 28 | 68       | 62 |      |    |      |
| 5/ 9/87 |  | 81   | 49 | --   | 98  | 28 | 69       | 64 |      |    |      |
| 5/10/87 |  | 84   | 50 | --   | 98  | 30 | 69       | 64 |      |    |      |
| 5/11/87 |  | 84   | 60 | --   | 98  | 60 | 72       | 62 |      |    |      |
| 5/12/87 |  | 83   | 62 | --   | 98  | 64 | 72       | 68 |      |    |      |
| 5/13/87 |  | 86   | 64 | --   | 98  | 58 | 72       | 68 |      |    |      |
| 5/14/87 |  | 86   | 64 | --   | 98  | 50 | 76       | 66 |      |    |      |
| 5/15/87 |  | 84   | 64 | --   | 98  | 45 | 78       | 66 |      |    |      |
| 5/16/87 |  | 86   | 60 | --   | 98  | 58 | 78       | 68 |      |    |      |
| 5/17/87 |  | 88   | 65 | --   | 98  | 46 | 78       | 68 |      |    |      |
| 5/18/87 |  | 86   | 68 | --   | 98  | 60 | 78       | 68 |      |    |      |
| 5/19/87 |  | 89   | 68 | --   | 98  | 68 | 79       | 70 |      |    |      |
| 5/20/87 |  | 91   | 78 | --   | 98  | 68 | 80       | 74 |      |    |      |
| 5/21/87 |  | 92   | 68 | --   | 98  | 62 | 80       | 72 |      |    |      |
| 5/22/87 |  | 91   | 65 | --   | 98  | 64 | 81       | 75 |      |    |      |
| 5/23/87 |  | 90   | 65 | --   | 98  | 72 | 80       | 76 |      |    |      |
| 5/24/87 |  | 84   | 62 | --   | 98  | 72 | 80       | 76 |      |    |      |
| 5/25/87 |  | 86   | 66 | .50  | 100 | 48 | 82       | 76 |      |    |      |
| 5/26/87 |  | 85   | 65 | --   | 98  | 52 | 82       | 78 |      |    |      |
| 5/27/87 |  | 91   | 66 | --   | 98  | 62 | 82       | 72 |      |    |      |
| 5/28/87 |  | 90   | 64 | --   | 98  | 32 | 84       | 76 |      |    |      |
| 5/29/87 |  | 92   | 64 | --   | 98  | 34 | 84       | 78 |      |    |      |
| 5/30/87 |  | 91   | 66 | .51  | 98  | 72 | 84       | 76 |      |    |      |
| 5/31/87 |  | 85   | 66 | .17  | 98  | 54 | 82       | 76 |      |    |      |

\*\*\*\*\*A '\*' ABOVE AN AVERAGE VALUE MEANS THERE IS \*\*\*\*\*  
 \*\*\*\*\* ONE OR MORE OF MISSING DATA FOR THAT ITEM \*\*\*\*\*

#### SUMMARY

#### AVERAGES

#### FOR PERIOD

#### ACCUMULATIONS

#### FOR PERIOD

| STATION   | TEMP |    |         | RH |    | SOILTEMP |    |      |    | PCPN | EVAP | GDD | HEAT | COOL |
|-----------|------|----|---------|----|----|----------|----|------|----|------|------|-----|------|------|
|           | HI   | LO | PER AVG | HI | LO | GRASS    |    | BARE |    |      |      |     |      |      |
|           | HI   | LO | AVG     | HI | LO | HI       | LO | HI   | LO |      |      | 50  | DEG. | DEG. |
| PRINCETON | 84   | 61 | 73      | 98 | 55 | 76       | 68 |      |    | 1.58 |      | 683 | 13   | 248  |

#### EXTREMES FOR PERIOD

| STATION   | TEMP |    | PCPN | RH  |    | SOILTEMP |    |      |    | EVAP | GDD | HEAT | COOL |      |
|-----------|------|----|------|-----|----|----------|----|------|----|------|-----|------|------|------|
|           | HI   | LO |      | HI  | LO | GRASS    |    | BARE |    |      |     |      |      |      |
|           | HI   | LO |      | HI  | LO | HI       | LO | HI   | LO |      |     | 50   | DEG. | DEG. |
| PRINCETON | 92   | 45 | .51  | 100 | 22 | 84       | 58 |      |    |      |     | 32   | 5    | 20   |

### III B. June Climatological Data, Princeton

|         |  | TEMP |    | PCPN  | RH  |    | SOILTEMP |    |      |    | EVAP |  |
|---------|--|------|----|-------|-----|----|----------|----|------|----|------|--|
|         |  | HI   | LO |       | HI  | LO | GRASS    |    | BARE |    |      |  |
|         |  |      |    |       |     |    |          | HI | LO   | HI | LO   |  |
| 6/ 1/87 |  | 85   | 64 | .07   | 98  | 72 | 84       | 78 |      |    |      |  |
| 6/ 2/87 |  | 90   | 72 | --    | 98  | 60 | 84       | 76 |      |    |      |  |
| 6/ 3/87 |  | 90   | 68 | --    | 98  | 72 | 84       | 74 |      |    |      |  |
| 6/ 4/87 |  | 84   | 52 | --    | 98  | 30 | 76       | 74 |      |    |      |  |
| 6/ 5/87 |  | 83   | 54 | --    | 98  | 32 | 84       | 76 |      |    |      |  |
| 6/ 6/87 |  | 90   | 52 | --    | 98  | 20 | 84       | 74 |      |    |      |  |
| 6/ 7/87 |  | 90   | 55 | --    | 96  | 28 | 84       | 74 |      |    |      |  |
| 6/ 8/87 |  | 91   | 64 | --    | 96  | 18 | 84       | 76 |      |    |      |  |
| 6/ 9/87 |  | 94   | 65 | --    | 96  | 32 | 86       | 78 |      |    |      |  |
| 6/10/87 |  | 92   | 66 | .29   | 96  | 71 | 86       | 74 |      |    |      |  |
| 6/11/87 |  | 92   | 68 | TRACE | 96  | 70 | 86       | 74 |      |    |      |  |
| 6/12/87 |  | 89   | 76 | --    | 98  | 62 | 84       | 70 |      |    |      |  |
| 6/13/87 |  | 94   | 65 | .25   | 98  | 42 | 84       | 72 |      |    |      |  |
| 6/14/87 |  | 95   | 64 | TRACE | 96  | 34 | 84       | 72 |      |    |      |  |
| 6/15/87 |  | 92   | 72 | --    | 98  | 50 | 84       | 74 |      |    |      |  |
| 6/16/87 |  | 91   | 69 | .17   | 96  | 52 | 84       | 76 |      |    |      |  |
| 6/17/87 |  | 91   | 68 | .49   | 98  | 50 | 84       | 76 |      |    |      |  |
| 6/18/87 |  | 89   | 66 | .36   | 98  | 62 | 84       | 76 |      |    |      |  |
| 6/19/87 |  | 89   | 68 | 2.08  | 100 | 58 | 84       | 72 |      |    |      |  |
| 6/20/87 |  | 88   | 72 | TRACE | 98  | 48 | 84       | 72 |      |    |      |  |
| 6/21/87 |  | 86   | 70 | .06   | 98  | 72 | 84       | 72 |      |    |      |  |
| 6/22/87 |  | 90   | 70 | --    | 90  | 58 | 84       | 74 |      |    |      |  |
| 6/23/87 |  | 93   | 70 | --    | 98  | 52 | 84       | 76 |      |    |      |  |
| 6/24/87 |  | 92   | 68 | 2.89  | 98  | 92 | 86       | 78 |      |    |      |  |
| 6/25/87 |  | 85   | 65 | .42   | 100 | 72 | 84       | 76 |      |    |      |  |
| 6/26/87 |  | 90   | 68 | .05   | 98  | 38 | 84       | 78 |      |    |      |  |
| 6/27/87 |  | 84   | 56 | --    | 98  | 28 | 84       | 72 |      |    |      |  |
| 6/28/87 |  | 84   | 58 | --    | 98  | 50 | 85       | 74 |      |    |      |  |
| 6/29/87 |  | 90   | 71 | --    | 98  | 50 | 85       | 76 |      |    |      |  |
| 6/30/87 |  | 90   | 68 | TRACE | 98  | 52 | 82       | 76 |      |    |      |  |

\*\*\*\*\*A '\*' ABOVE AN AVERAGE VALUE MEANS THERE IS \*\*\*\*\*  
 \*\*\*\*\* ONE OR MORE OF MISSING DATA FOR THAT ITEM \*\*\*\*\*

| AVERAGES  | SUMMARY    |     |     |          |      |               |      |      |      |      |
|-----------|------------|-----|-----|----------|------|---------------|------|------|------|------|
|           | FOR PERIOD |     |     |          |      | ACCUMULATIONS |      |      |      |      |
| STATION   | TEMP       | PER | RH  | SOILTEMP | PCPN | EVAP          | GDD  | HEAT | COOL |      |
|           | HI         | LO  | AVG | HI       | LO   | GRASS         | BARE | 50   | DEG. | DEG. |
|           |            |     |     | HI       | LO   | HI            | LO   | MOD  | DAYS | DAYS |
| PRINCETON | 89         | 65  | 78  | 97       | 51   | 84            | 75   | 7.13 | 770  | 380  |

| STATION   | EXTREMES FOR PERIOD |      |      |          |       |      |      |      |      |  |
|-----------|---------------------|------|------|----------|-------|------|------|------|------|--|
|           | TEMP                | PCPN | RH   | SOILTEMP | EVAP  | GDD  | HEAT | COOL |      |  |
|           | HI                  | LO   | HI   | LO       | GRASS | BARE | 50   | DEG. | DEG. |  |
|           |                     |      | HI   | LO       | HI    | LO   | MOD  | DAYS | DAYS |  |
| PRINCETON | 95                  | 52   | 2.89 | 100      | 18    | 86   | 70   | 31   | 18   |  |



### III B. July Climatological Data, Princeton

|         |  | TEMP |    | PCPN  | RH  |    | SOILTEMP |    |      |    | EVAP |  |
|---------|--|------|----|-------|-----|----|----------|----|------|----|------|--|
|         |  | HI   | LO |       | HI  | LO | GRASS    |    | BARE |    |      |  |
|         |  |      |    |       |     |    |          | HI | LO   | HI | LO   |  |
| 7/ 1/87 |  | 87   | 68 | 1.00  | 99  | 50 | 82       | 77 |      |    |      |  |
| 7/ 2/87 |  | 85   | 66 | --    | 99  | 50 | 82       | 75 |      |    |      |  |
| 7/ 3/87 |  | 85   | 66 | TRACE | 99  | 86 | 82       | 75 |      |    |      |  |
| 7/ 4/87 |  | 88   | 68 | --    | 68  | 58 | 83       | 76 |      |    |      |  |
| 7/ 5/87 |  | 87   | 66 | 2.35  | 89  | 70 | 84       | 75 |      |    |      |  |
| 7/ 6/87 |  | 92   | 68 | .04   | 99  | 42 | 82       | 76 |      |    |      |  |
| 7/ 7/87 |  | 90   | 69 | .13   | 98  | 52 | 84       | 78 |      |    |      |  |
| 7/ 8/87 |  | 89   | 68 | .16   | 100 | 60 | 84       | 76 |      |    |      |  |
| 7/ 9/87 |  | 88   | 73 | .06   | 100 | 80 | 84       | 74 |      |    |      |  |
| 7/10/87 |  | 85   | 71 | --    | 98  | 76 | 84       | 74 |      |    |      |  |
| 7/11/87 |  | 92   | 73 | --    | 98  | 56 | 84       | 76 |      |    |      |  |
| 7/12/87 |  | 90   | 73 | .10   | 92  | 75 | 84       | 75 |      |    |      |  |
| 7/13/87 |  | 85   | 72 | .63   | 94  | 72 | 84       | 78 |      |    |      |  |
| 7/14/87 |  | 80   | 59 | --    | 96  | 42 | 82       | 76 |      |    |      |  |
| 7/15/87 |  | 82   | 58 | --    | 98  | 42 | 81       | 75 |      |    |      |  |
| 7/16/87 |  | 91   | 62 | --    | 98  | 40 | 82       | 78 |      |    |      |  |
| 7/17/87 |  | 92   | 64 | --    | 98  | 32 | 84       | 76 |      |    |      |  |
| 7/18/87 |  | 93   | 68 | --    | 98  | 44 | 85       | 78 |      |    |      |  |
| 7/19/87 |  | 92   | 69 | --    | 99  | 38 | 85       | 79 |      |    |      |  |
| 7/20/87 |  | 93   | 68 | --    | 92  | 36 | 86       | 80 |      |    |      |  |
| 7/21/87 |  | 94   | 70 | --    | 96  | 40 | 86       | 82 |      |    |      |  |
| 7/22/87 |  | 92   | 70 | TRACE | 96  | 54 | 86       | 80 |      |    |      |  |
| 7/23/87 |  | 90   | 68 | .21   | 98  | 60 | 84       | 78 |      |    |      |  |
| 7/24/87 |  | 90   | 67 | --    | 97  | 62 | 85       | 79 |      |    |      |  |
| 7/25/87 |  | 91   | 69 | --    | 99  | 60 | 84       | 78 |      |    |      |  |
| 7/26/87 |  | 93   | 71 | --    | 98  | 51 | 85       | 80 |      |    |      |  |
| 7/27/87 |  | 95   | 73 | --    | 98  | 50 | 86       | 82 |      |    |      |  |
| 7/28/87 |  | 94   | 68 | .20   | 98  | 60 | 84       | 80 |      |    |      |  |
| 7/29/87 |  | 92   | 69 | 1.17  | 98  | 58 | 86       | 82 |      |    |      |  |
| 7/30/87 |  | 90   | 73 | .04   | 98  | 60 | 88       | 80 |      |    |      |  |
| 7/31/87 |  | 93   | 70 | --    | 98  | 50 | 88       | 82 |      |    |      |  |

\*\*\*\*\*A '\*' ABOVE AN AVERAGE VALUE MEANS THERE IS \*\*\*\*\*  
 \*\*\*\*\* ONE OR MORE OF MISSING DATA FOR THAT ITEM \*\*\*\*\*

| AVERAGES  | SUMMARY    |     |     |          |      |               |      |      |      |      |            |
|-----------|------------|-----|-----|----------|------|---------------|------|------|------|------|------------|
|           | FOR PERIOD |     |     |          |      | ACCUMULATIONS |      |      |      |      | FOR PERIOD |
| STATION   | TEMP       | PER | RH  | SOILTEMP | PCPN | EVAP          | GDD  | HEAT | COOL |      |            |
|           | HI         | LO  | AVG | HI       | LO   | GRASS         | BARE | 50   | DEG. | DEG. |            |
|           |            |     |     | HI       | LO   | HI            | LO   | MOD  | DAYS | DAYS |            |
| PRINCETON | 90         | 68  | 79  | 96       | 55   | 84            | 78   | 6.09 | 842  | 443  |            |

| STATION   | EXTREMES FOR PERIOD |      |      |          |       |      |      |      |      |  |
|-----------|---------------------|------|------|----------|-------|------|------|------|------|--|
|           | TEMP                | PCPN | RH   | SOILTEMP | EVAP  | GDD  | HEAT | COOL |      |  |
|           | HI                  | LO   | HI   | LO       | GRASS | BARE | 50   | DEG. | DEG. |  |
|           |                     |      | HI   | LO       | HI    | LO   | MOD  | DAYS | DAYS |  |
| PRINCETON | 95                  | 58   | 2.35 | 100      | 32    | 88   | 74   | 30   | 19   |  |

### III B. August Climatological Data, Princeton

|         |  | TEMP |    | PCPN | RH  |    | SOILTEMP |    |      |    | EVAP |
|---------|--|------|----|------|-----|----|----------|----|------|----|------|
|         |  | HI   | LO |      | HI  | LO | GRASS    |    | BARE |    |      |
|         |  |      |    |      |     |    | HI       | LO | HI   | LO |      |
| 8/ 1/87 |  | 95   | 72 | --   | 98  | 58 | 88       | 80 |      |    |      |
| 8/ 2/87 |  | 97   | 74 | --   | 99  | 48 | 86       | 80 |      |    |      |
| 8/ 3/87 |  | 101  | 78 | .03  | 100 | 46 | 88       | 82 |      |    |      |
| 8/ 4/87 |  | 94   | 72 | .38  | 100 | 64 | 84       | 82 |      |    |      |
| 8/ 5/87 |  | 85   | 73 | --   | 96  | 48 | 82       | 80 |      |    |      |
| 8/ 6/87 |  | 89   | 66 | --   | 96  | 44 | 83       | 76 |      |    |      |
| 8/ 7/87 |  | 90   | 68 | --   | 98  | 62 | 84       | 78 |      |    |      |
| 8/ 8/87 |  | 95   | 64 | --   | 96  | 32 | 84       | 72 |      |    |      |
| 8/ 9/87 |  | 96   | 73 | .66  | 96  | 52 | 82       | 76 |      |    |      |
| 8/10/87 |  | 94   | 68 | 1.06 | 96  | 62 | 81       | 74 |      |    |      |
| 8/11/87 |  | 85   | 65 | --   | 98  | 52 | 88       | 76 |      |    |      |
| 8/12/87 |  | 89   | 68 | --   | 98  | 46 | 84       | 78 |      |    |      |
| 8/13/87 |  | 91   | 75 | --   | 98  | 52 | 84       | 80 |      |    |      |
| 8/14/87 |  | 92   | 73 | --   | 96  | 46 | 84       | 78 |      |    |      |
| 8/15/87 |  | 92   | 71 | --   | 96  | 40 | 84       | 80 |      |    |      |
| 8/16/87 |  | 93   | 70 | --   | 94  | 50 | 83       | 79 |      |    |      |
| 8/17/87 |  | 92   | 77 | .10  | 98  | 48 | 83       | 78 |      |    |      |
| 8/18/87 |  | 89   | 66 | --   | 96  | 52 | 84       | 76 |      |    |      |
| 8/19/87 |  | 89   | 69 | --   | 96  | 32 | 82       | 76 |      |    |      |
| 8/20/87 |  | 94   | 63 | --   | 92  | 32 | 84       | 76 |      |    |      |
| 8/21/87 |  | 96   | 68 | --   | 96  | 40 | 84       | 78 |      |    |      |
| 8/22/87 |  | 98   | 74 | --   | 99  | 40 | 85       | 80 |      |    |      |
| 8/23/87 |  | 96   | 61 | 1.34 | 98  | 30 | 85       | 80 |      |    |      |
| 8/24/87 |  | 83   | 62 | --   | 86  | 35 | 80       | 75 |      |    |      |
| 8/25/87 |  | 92   | 62 | --   | 92  | 40 | 85       | 74 |      |    |      |
| 8/26/87 |  | 93   | 72 | --   | 99  | 40 | 85       | 77 |      |    |      |
| 8/27/87 |  | 93   | 72 | --   | 99  | 58 | 85       | 77 |      |    |      |
| 8/28/87 |  | 85   | 65 | .12  | 96  | 56 | 85       | 76 |      |    |      |
| 8/29/87 |  | 88   | 56 | --   | 96  | 44 | 82       | 76 |      |    |      |
| 8/30/87 |  | 83   | 56 | --   | 96  | 30 | 78       | 72 |      |    |      |
| 8/31/87 |  | 84   | 58 | --   | 90  | 36 | 78       | 72 |      |    |      |

\*\*\*\*\*A '-' ABOVE AN AVERAGE VALUE MEANS THERE IS \*\*\*\*\*  
 \*\*\*\*\* ONE OR MORE OF MISSING DATA FOR THAT ITEM \*\*\*\*\*

#### SUMMARY

#### AVERAGES

#### FOR PERIOD

#### ACCUMULATIONS

#### FOR PERIOD

| STATION   | TEMP |    |     | RH |    | SOILTEMP |    |      |    | PCPN | EVAP | GDD | HEAT | COOL |
|-----------|------|----|-----|----|----|----------|----|------|----|------|------|-----|------|------|
|           | HI   | LO | AVG | HI | LO | GRASS    |    | BARE |    |      |      |     |      |      |
|           |      |    |     |    |    | HI       | LO | HI   | LO |      |      |     |      |      |
| PRINCETON | 91   | 68 | 80  | 96 | 46 | 84       | 77 |      |    | 3.69 |      | 838 |      | 466  |

#### EXTREMES FOR PERIOD

| STATION   | TEMP |    |      | RH  |    | SOILTEMP |    |      |    | EVAP | GDD | HEAT | COOL |
|-----------|------|----|------|-----|----|----------|----|------|----|------|-----|------|------|
|           | HI   | LO | PCPN | HI  | LO | GRASS    |    | BARE |    |      |     |      |      |
|           |      |    |      |     |    | HI       | LO | HI   | LO |      |     |      |      |
| PRINCETON | 101  | 56 | 1.34 | 100 | 30 | 88       | 72 |      |    |      | 32  |      | 25   |

### III B. September Climatological Data, Princeton

|         | TEMP |    | PCPN  | RH  |    | SOILTEMP |    |      |    | EVAP |
|---------|------|----|-------|-----|----|----------|----|------|----|------|
|         | HI   | LO |       | HI  | LO | GRASS    |    | BARE |    |      |
|         | HI   | LO |       | HI  | LO | HI       | LO | HI   | LO |      |
| 9/ 1/87 | 81   | 48 | --    | 96  | 20 | 76       | 70 |      |    |      |
| 9/ 2/87 | 88   | 48 | --    | 98  | 30 | 76       | 69 |      |    |      |
| 9/ 3/87 | 89   | 58 | --    | 95  | 35 | 75       | 70 |      |    |      |
| 9/ 4/87 | 93   | 58 | --    | 95  | 30 | 79       | 70 |      |    |      |
| 9/ 5/87 | 92   | 63 | --    | 96  | 32 | 79       | 72 |      |    |      |
| 9/ 6/87 | 90   | 63 | --    | 98  | 34 | 79       | 72 |      |    |      |
| 9/ 7/87 | 90   | 68 | .29   | 100 | 72 | 80       | 76 |      |    |      |
| 9/ 8/87 | 84   | 68 | --    | 96  | 50 | 82       | 78 |      |    |      |
| 9/ 9/87 | 88   | 62 | --    | 96  | 42 | 80       | 76 |      |    |      |
| 9/10/87 | 89   | 67 | .43   | 100 | 30 | 78       | 72 |      |    |      |
| 9/11/87 | 88   | 66 | --    | 96  | 54 | 76       | 70 |      |    |      |
| 9/12/87 | 88   | 63 | --    | 100 | 65 | 77       | 75 |      |    |      |
| 9/13/87 | 88   | 64 | --    | 95  | 35 | 82       | 75 |      |    |      |
| 9/14/87 | 90   | 59 | --    | 98  | 30 | 78       | 72 |      |    |      |
| 9/15/87 | 90   | 64 | --    | 95  | 45 | 81       | 78 |      |    |      |
| 9/16/87 | 85   | 65 | .38   | 95  | 64 | 79       | 74 |      |    |      |
| 9/17/87 | 88   | 66 | .50   | 100 | 50 | 75       | 73 |      |    |      |
| 9/18/87 | 87   | 61 | --    | 98  | 45 | 76       | 73 |      |    |      |
| 9/19/87 | 78   | 62 | TRACE | 98  | 32 | 77       | 74 |      |    |      |
| 9/20/87 | 80   | 52 | --    | 98  | 28 | 76       | 70 |      |    |      |
| 9/21/87 | 76   | 50 | --    | 100 | 40 | 73       | 49 |      |    |      |
| 9/22/87 | 74   | 47 | --    | 96  | 30 | 74       | 68 |      |    |      |
| 9/23/87 | 72   | 47 | --    | 98  | 44 | 72       | 65 |      |    |      |
| 9/24/87 | 80   | 45 | --    | 98  | 30 | 70       | 64 |      |    |      |
| 9/25/87 | 82   | 51 | --    | 98  | 34 | 70       | 65 |      |    |      |
| 9/26/87 | 86   | 51 | --    | 96  | 28 | 70       | 66 |      |    |      |
| 9/27/87 | 85   | 54 | --    | 98  | 28 | 71       | 66 |      |    |      |
| 9/28/87 | 88   | 62 | --    | 98  | 32 | 71       | 68 |      |    |      |
| 9/29/87 | 85   | 62 | .68   | 98  | 40 | 72       | 66 |      |    |      |
| 9/30/87 | 77   | 51 | --    | 98  | 30 | 70       | 65 |      |    |      |

\*\*\*\*\*A '\*' ABOVE AN AVERAGE VALUE MEANS THERE IS \*\*\*\*\*  
 \*\*\*\*\* ONE OR MORE OF MISSING DATA FOR THAT ITEM \*\*\*\*\*

| AVERAGES  | SUMMARY    |     |     |          |      |               |      |      |      |        |
|-----------|------------|-----|-----|----------|------|---------------|------|------|------|--------|
|           | FOR PERIOD |     |     |          |      | ACCUMULATIONS |      |      |      |        |
| STATION   | TEMP       | PER | RH  | SOILTEMP | PCPN | EVAP          | GDD  | HEAT | COOL |        |
|           | HI         | LO  | AVG | HI       | LO   | GRASS         | BARE | 50   | DEG. | DEG.   |
|           | HI         | LO  |     | HI       | LO   | HI            | LO   | MOD  | DAYS | DAYS   |
| PRINCETON | 85         | 58  | 72  | 97       | 39   | 76            | 70   | 2.28 | 636  | 14 219 |

| STATION   | EXTREMES FOR PERIOD |      |     |          |       |      |      |      |      |    |
|-----------|---------------------|------|-----|----------|-------|------|------|------|------|----|
|           | TEMP                | PCPN | RH  | SOILTEMP | EVAP  | GDD  | HEAT | COOL |      |    |
|           | HI                  | LO   | HI  | LO       | GRASS | BARE | 50   | DEG. | DEG. |    |
|           | HI                  | LO   | HI  | LO       | HI    | LO   | MOD  | DAYS | DAYS |    |
| PRINCETON | 93                  | 45   | .68 | 100      | 20    | 82   | 49   | 27   | 5    | 14 |

## IV. HERBICIDES IN REPORT

| CHEMICAL/COMMON         | TRADE NAME                                  | COMPANY               |
|-------------------------|---|-----------------------|
| 2,4-D AMINE             | FORMULA 40, WEEDAR 64                       | VERTAC, RHONE POULENC |
| 2,4-DB                  | BUTYRAC 200                                 | RHONE POULENC         |
| 2,4-D ESTER             | ESTERON 99<br>10-34-0                       | VERTAC                |
| ACIFLUORFEN 1           | BLAZER 2L                                   | BASF                  |
| ACIFLUORFEN 2           | TACKLE                                      | RHONE POULENC         |
| ALACHLOR                | LASSO 4E, 4MT                               | MONSANTO              |
| ALACHLOR + ATRAZINE     | LASSO/ATRAZINE                              | MONSANTO              |
| ALACHLOR + GLYPHOSATE   | BRONCO (LASSO 2.5 +<br>ROUNDUP 1.5)         | MONSANTO              |
| ALACHLOR + IMAZAQUIN    | PARTNER                                     | MONSANTO, AMER. CYAN. |
| AMMONIUM SULFATE        |   |                       |
| ATRAZINE                | ATRAZINE (DUPONT), AATREX,<br>AATREX NINE-0 | DUPONT, CIBA GEIGY    |
| BAS 517                 |   | BASF                  |
| BENAZOLIN               |   | NORAM                 |
| BENEFIN                 | BALAN                                       | ELANCO                |
| BENTAZON                | BASAGRAN                                    | BASF                  |
| BENTAZON + ACIFLUORFEN  | STORM                                       | BASF                  |
| BROMOXYNIL 2            | BUCTRIL                                     | RHONE POULENC         |
| BROMOXYNIL + ATRAZINE   | BUCTRIL/ATRAZINE PGK.                       | RHONE POULENC         |
| BUTYLATE + R25788       | SUTAN +                                     | STAUFFER              |
| CGA 180937              |   | CIBA GEIGY            |
| CHLORIMURON             | CLASSIC                                     | DUPONT                |
| CHLORIMURON + LINURON   | GEMINI                                      | DUPONT                |
| CHLORIMURON+METRIBUZIN  | CANOPY                                      | DUPONT                |
| CINMETHYLIN             | CINCH                                       | DUPONT                |
| CYANAZINE               | BLADEX 4L, 80W                              | DUPONT                |
| CYANAZINE + ATRAZINE    | EXTRAZINE                                   | DUPONT                |
| CROP OIL CONCENTRATE    | AMOCO, PEPTOIL, TORCH                       |                       |
| DAX                     |   | BASF                  |
| DICAMBA                 | BANVEL                                      | SANDOZ                |
| DICAMBA + ATRAZINE      | MARKSMAN                                    | SANDOZ                |
| DIPHENAMID              | ENIDE                                       | NORAM                 |
| DPX 32054               |   | DUPONT                |
| DPX L8348               | PREVIEW                                     | DUPONT                |
| DPX M6316 (THIAMETURON) | HARMONY                                     | DUPONT                |
| DPX 8259                | GEMINI                                      | DUPONT                |
| DPX R8260               | LOROX PLUS                                  | DUPONT                |
| EPTC + R25788           | ERADICANE                                   | STAUFFER              |
| ETHALFLURALIN           | SONALAN                                     | ELANCO                |
| FENOXAPROP              | WHIP  | AMERICAN HOECHST      |
| FMC 57020 (CLOMAZONE)   | COMMAND                                     | FMC                   |
| FLUAZIFOP-BUTYL         | FUSILADE, FUSILADE 2000                     | ICI                   |
| FOMESAFEN               | REFLEX                                      | ICI                   |
| GLYPHOSATE              | ROUNDUP                                     | MONSANTO              |
| HALOXYFOP               | VERDICT                                     | DOW                   |
| HOE 39866               | IGNITE                                      | AMERICAN HOECHST      |
| IMAZAQUIN               | SCEPTER                                     | AMERICAN CYANAMID     |
| IMAZETHAPYR             | PURSUIT                                     | AMERICAN CYANAMID     |
| ISOPROPALIN             | PAARLAN                                     | ELANCO                |
| KY 1000                 |   |                       |
| KY 2000                 |   |                       |

#### IV. HERBICIDES (continued)

|                         |                   |                   |
|-------------------------|-------------------|-------------------|
| LACTOFEN                | COBRA             | PPG               |
| LINURON                 | LOROX             | DUPONT            |
| LIQUID FERTILIZER       | 28% NITROGEN      |                   |
| METALACHLOR             | DUAL              | CIBA GEIGY        |
| METALACHLOR + ATRAZINE  | BICEP 6L,6LD      | CIBA GEIGY        |
| METALACHLOR+METRIBUZIN  | TURBO             | MOBAY             |
| METALACHLOR/HOE 39866   | DUAL/IGNITE PKG.  | CIBA GIEGY        |
| METRIBUZIN 1            | SENCOR 4L,75DF    | MOBAY             |
| METRIBUZIN 1 OR 2       | METRIBUZIN        |                   |
| METRIBUZIN 2            | LEXONE 4L,75DF    | DUPONT            |
| NAPROPAMIDE             | DEVRIKOL          | STAUFFER          |
| NAPTALAM + 2,4-DB       | RESCUE            | UNIROYAL          |
| ORYZALIN                | SURFLAN           | ELANCO            |
| PARAQUAT                | GRAMOXONE         | ICI               |
| PARAQUAT + ATRAZINE     | COLONEL           | ICI               |
| PARAQUAT+METRI.+LINURON | PRELUDE           | ICI               |
| PARAQUAT + SIMAZINE     | BRIT              | ICI               |
| PEBULATE                | TILLAM            | STAUFFER          |
| PENDIMETHALIN           | PROWL             | AMERICAN CYANAMID |
| PENDIMETH. + IMAZAQUIN  | SQUADRON          | AMERICAN CYANAMID |
| PPG 1259                |                   | PPG               |
| PPG 4000                |                   | PPG               |
| RE 45601 (CLETHODIM)    | SELECT            | CHEVRON           |
| RS 012                  |                   | RIVERSIDE TERRA   |
| RS 105                  |                   | RIVERSIDE TERRA   |
| SAN 825H                |                   | SANDOZ            |
| SAN DCA1                |                   | SANDOZ            |
| SC 0051                 |                   | STAUFFER          |
| SC 0735                 |                   | STAUFFER          |
| SC 0774                 |                   | STAUFFER          |
| SC 5676 + R25788        |                   | STAUFFER          |
| SETHOXYDIM              | POAST             | BASF              |
| SIMAZINE                | PRINCEP           | CIBA GEIGY        |
| SURFACTANT              | X-77,TRITON AG 98 |                   |
| TRIDIPHANE              | TANDEM            | DOW               |
| TRIFLURALIN             | TREFLAN           | ELANCO            |
| TRIFLURALIN+METRIBUZIN  | SALUTE            | MOBAY             |
| TRIFLURALIN+FMC 57020   | COMMENCE          | ELANCO,FMC        |
| VARIQUAT                |                   | NORAM             |
| QUIZALAFOP              | ASSURE            | DUPONT            |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7001 CORN PREEMERGENCE

| TRT NO. | HERBICIDE TREATMENT  | FORMULA | RATE        | APPL METH | -----JUNE 14----- |      |      |      |      |      |      |      |      |
|---------|----------------------|---------|-------------|-----------|-------------------|------|------|------|------|------|------|------|------|
|         |                      |         |             |           | GRAS              | BRLE | CRIN | LACG | GIFT | COLO | ILMG | RRPW | VELE |
| 1       | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 92                | 50   | 0    | 92   | 92   | 75   | 42   | 80   | 38   |
| 2A      | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 92                | 95   | 0    | 95   | 95   | 100  | 95   | 98   | 98   |
| 2B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |      |      |
| 3A      | ALACHLOR             | 4.00 MT | 5.000 LB/AC | PRE       | 100               | 95   | 0    | 100  | 100  | 98   | 95   | 100  | 100  |
| 3B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |      |      |
| 4A      | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 90                | 80   | 0    | 98   | 90   | 88   | 82   | 92   | 85   |
| 4B      | CYANAZINE            | 4.00 L  | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |      |      |
| 5       | METOLACHLOR          | 8.00 E  | 2.000 LB/AC | PRE       | 88                | 58   | 0    | 95   | 88   | 68   | 48   | 82   | 45   |
| 6A      | METOLACHLOR          | 8.00 E  | 2.000 LB/AC | PRE       | 90                | 90   | 0    | 95   | 90   | 100  | 92   | 98   | 92   |
| 6B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |      |      |
| 7A      | METOLACHLOR          | 8.00 E  | 4.000 LB/AC | PRE       | 90                | 92   | 0    | 95   | 90   | 100  | 92   | 100  | 98   |
| 7B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |      |      |
| 8A      | METOLACHLOR          | 8.00 E  | 2.000 LB/AC | PRE       | 88                | 92   | 0    | 90   | 88   | 100  | 92   | 100  | 100  |
| 8B      | PPG 4000             | 4.80 FL | .900 LB/AC  | PRE       |                   |      |      |      |      |      |      |      |      |
| 9A      | METOLACHLOR          | 8.00 E  | 2.000 LB/AC | PRE       | 90                | 90   | 0    | 92   | 90   | 92   | 90   | 95   | 90   |
| 9B      | PPG 1259             | 3.00 FL | .150 LB/AC  | PRE       |                   |      |      |      |      |      |      |      |      |
| 9C      | CYANAZINE            | 4.00 L  | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |      |      |
| 10      | ATRAZINE             | 4.00 L  | 1.000 LB/AC | PRE       | 30                | 92   | 0    | 30   | 30   | 100  | 90   | 98   | 98   |
| 11      | ATRAZINE             | 4.00 L  | 2.000 LB/AC | PRE       | 55                | 92   | 0    | 55   | 62   | 100  | 92   | 98   | 92   |
| 12A     | ATRAZINE             | 4.00 L  | 2.250 LB/AC | PRE       | 82                | 98   | 0    | 88   | 82   | 100  | 100  | 100  | 95   |
| 12B     | CYANAZINE            | 4.00 L  | .750 LB/AC  | PRE       |                   |      |      |      |      |      |      |      |      |
| 13      | CYANAZINE            | 4.00 L  | 2.000 LB/AC | PRE       | 80                | 82   | 0    | 82   | 80   | 85   | 85   | 92   | 92   |
| 14      | CYANAZINE            | 4.00 L  | 3.000 LB/AC | PRE       | 92                | 88   | 0    | 95   | 92   | 92   | 88   | 95   | 90   |
| 15      | METALACHLOR + ATRAZI | 6.00 L  | 4.500 LB/AC | PRE       | 90                | 95   | 0    | 95   | 90   | 100  | 95   | 100  | 100  |
| 16A     | PENDIMETHALIN        | 4.00 E  | 1.500 LB/AC | PRE       | 82                | 92   | 0    | 88   | 82   | 98   | 95   | 98   | 95   |
| 16B     | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7001 CORN PREEMERGENCE

| TRT NO. | HERBICIDE TREATMENT  | FORMULA   | RATE        | APPL METH | -----JUNE 14----- |      |      |      |      |      |      |      |      |  |
|---------|----------------------|-----------|-------------|-----------|-------------------|------|------|------|------|------|------|------|------|--|
|         |                      |           |             |           | GRAS              | BRLE | CRIN | LACG | GIFT | COLQ | ILMG | RRPW | VELE |  |
| 17A     | PENDIMETHALIN        | 4.00 E    | 1.500 LB/AC | PRE       | 90                | 90   | 0    | 90   | 90   | 95   | 88   | 98   | 98   |  |
| 17B     | CYANAZINE            | 4.00 L    | 2.000 LB/AC | PRE       |                   |      |      |      |      |      |      |      |      |  |
| 18      | CYANAZINE + ATRAZINE | 4.00 L    | 2.000 LB/AC | PRE       | 65                | 95   | 0    | 68   | 65   | 100  | 95   | 98   | 95   |  |
| 19A     | CYANAZINE + ATRAZINE | 4.00 L    | 1.330 LB/AC | PRE       | 78                | 90   | 0    | 82   | 75   | 100  | 90   | 98   | 98   |  |
| 19B     | ATRAZINE             | 4.00 L    | .660 LB/AC  | PRE       |                   |      |      |      |      |      |      |      |      |  |
| 20A     | CYANAZINE + ATRAZINE | 4.00 L    | 2.000 LB/AC | PRE       | 88                | 100  | 0    | 88   | 88   | 100  | 100  | 100  | 100  |  |
| 20B     | ATRAZINE             | 4.00 L    | 1.000 LB/AC | PRE       |                   |      |      |      |      |      |      |      |      |  |
| 21A     | CGA 180937           | 7.80 EC   | 2.000 LB/AC | PRE       | 90                | 92   | 0    | 95   | 90   | 100  | 92   | 100  | 95   |  |
| 21B     | ATRAZINE             | 4.00 L    | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |      |      |  |
| 22A     | CGA 180937           | 7.80 EC   | 4.000 LB/AC | PRE       | 90                | 92   | 0    | 92   | 90   | 100  | 92   | 98   | 95   |  |
| 22B     | ATRAZINE             | 4.00 L    | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |      |      |  |
| 23A     | RS-012               | 3.75 EC   | .940 LB/AC  | PRE       | 52                | 92   | 0    | 58   | 50   | 100  | 95   | 100  | 92   |  |
| 23B     | ATRAZINE             | 90.00 WDG | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |      |      |  |
| 24A     | RS-012               | 3.75 EC   | .940 LB/AC  | PRE       | 80                | 70   | 0    | 82   | 80   | 75   | 72   | 72   | 68   |  |
| 24B     | CYANAZINE            | 80.00 WP  | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |      |      |  |
| 25A     | SC 0735              | 75.00 WP  | .500 LB/AC  | PRE       | 82                | 90   | 0    | 85   | 85   | 98   | 90   | 95   | 92   |  |
| 25B     | R-29148              | 2.00 E    | .083 LB/AC  | PRE       |                   |      |      |      |      |      |      |      |      |  |
| 25C     | ATRAZINE             | 4.00 L    | 1.000 LB/AC | PRE       |                   |      |      |      |      |      |      |      |      |  |
| 26A     | SC 0735              | 75.00 WP  | .750 LB/AC  | PRE       | 88                | 95   | 0    | 90   | 90   | 100  | 95   | 100  | 100  |  |
| 26B     | R-29148              | 2.00 E    | .125 LB/AC  | PRE       |                   |      |      |      |      |      |      |      |      |  |
| 26C     | ATRAZINE             | 4.00 L    | 1.000 LB/AC | PRE       |                   |      |      |      |      |      |      |      |      |  |
| 27A     | SC 0774              | 75.00 WP  | .380 LB/AC  | PRE       | 55                | 90   | 0    | 58   | 55   | 98   | 90   | 95   | 92   |  |
| 27B     | R-29148              | 2.00 E    | .063 LB/AC  | PRE       |                   |      |      |      |      |      |      |      |      |  |
| 27C     | ATRAZINE             | 4.00 L    | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |      |      |  |
| 28A     | SC 0774              | 75.00 WP  | .500 LB/AC  | PRE       | 78                | 95   | 0    | 85   | 78   | 100  | 95   | 100  | 95   |  |
| 28B     | R-29148              | 2.00 E    | .083 LB/AC  | PRE       |                   |      |      |      |      |      |      |      |      |  |
| 28C     | ATRAZINE             | 4.00 L    | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |      |      |  |
| 29A     | SC 0774              | 75.00 WP  | .750 LB/AC  | PRE       | 88                | 92   | 0    | 90   | 88   | 98   | 92   | 98   | 98   |  |
| 29B     | R-29148              | 2.00 E    | .125 LB/AC  | PRE       |                   |      |      |      |      |      |      |      |      |  |
| 29C     | ATRAZINE             | 4.00 L    | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |      |      |  |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7001 CORN PREEMERGENCE

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE            | APPL METH | -----JUNE 14----- |      |      |      |      |      |      |      |      |  |
|---------|---------------------|----------|-----------------|-----------|-------------------|------|------|------|------|------|------|------|------|--|
|         |                     |          |                 |           | GRAS              | BRLE | CRIN | LACG | GIFT | COLQ | ILMG | RRPW | VELE |  |
| 30A     | SC 0774             | 75.00 WP | .750 LB/AC PRE  |           | 90                | 92   | 0    | 92   | 92   | 100  | 92   | 98   | 100  |  |
| 30B     | R-29148             | 2.00 E   | .250 LB/AC PRE  |           |                   |      |      |      |      |      |      |      |      |  |
| 30C     | ATRAZINE            | 4.00 L   | 1.500 LB/AC PRE |           |                   |      |      |      |      |      |      |      |      |  |
| 31A     | SC 0774             | 75.00 WP | 1.000 LB/AC PRE |           | 85                | 98   | 0    | 90   | 88   | 100  | 98   | 100  | 100  |  |
| 31B     | R-29148             | 2.00 E   | .166 LB/AC PRE  |           |                   |      |      |      |      |      |      |      |      |  |
| 31C     | ATRAZINE            | 4.00 L   | 1.500 LB/AC PRE |           |                   |      |      |      |      |      |      |      |      |  |
| 32A     | SC 0774             | 75.00 WP | 1.000 LB/AC PRE |           | 90                | 95   | 0    | 92   | 90   | 100  | 95   | 100  | 98   |  |
| 32B     | R-29148             | 2.00 E   | .330 LB/AC PRE  |           |                   |      |      |      |      |      |      |      |      |  |
| 32C     | ATRAZINE            | 4.00 L   | 1.500 LB/AC PRE |           |                   |      |      |      |      |      |      |      |      |  |
| 33A     | SC 0774             | 75.00 WP | 1.250 LB/AC PRE |           | 92                | 92   | 0    | 98   | 92   | 100  | 92   | 100  | 100  |  |
| 33B     | R-29148             | 2.00 E   | .208 LB/AC PRE  |           |                   |      |      |      |      |      |      |      |      |  |
| 33C     | ATRAZINE            | 4.00 L   | 1.500 LB/AC PRE |           |                   |      |      |      |      |      |      |      |      |  |
| 34      | SAN 825H            | 4.67 FL  | 3.500 LB/AC PRE |           | 82                | 98   | 0    | 88   | 82   | 100  | 100  | 100  | 98   |  |
| 35      | SAN DCA1            | 4.67 FL  | 3.500 LB/AC PRE |           | 88                | 95   | 0    | 88   | 88   | 100  | 100  | 98   | 92   |  |
| 36      | CHECK (CULTIVATED)  | .00 CK   | .000            |           | 100               | 100  | 0    | 100  | 100  | 100  | 100  | 100  | 100  |  |
|         |                     |          | LSD(05):        |           | 13                | 10   | 0    | 15   | 13   | 12   | 12   | NS   | 16   |  |

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

FERTILIZATION (LB/AC): 250 N,

60 P,

60 K

PH: 6.3

O.M.: 3.3%

DATE PLANTED: MAY 6

DATE TREATED: PRE MAY 6

VARIETY: PIONEER 3320



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7001 CORN PREEMERGENCE

| TRT NO. | HERBICIDE TREATMENT  | FORMULA | RATE        | APPL METH | -----JULY 14----- |      |      |      |      |      |      |
|---------|----------------------|---------|-------------|-----------|-------------------|------|------|------|------|------|------|
|         |                      |         |             |           | CRIN              | LACG | GIFT | COLO | ILMG | RRPW | VELE |
| 1       | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 0                 | 92   | 85   | 55   | 35   | 78   | 38   |
| 2A      | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 0                 | 95   | 88   | 95   | 82   | 92   | 92   |
| 2B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 3A      | ALACHLOR             | 4.00 MT | 5.000 LB/AC | PRE       | 0                 | 90   | 90   | 98   | 88   | 100  | 98   |
| 3B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 4A      | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 0                 | 92   | 85   | 82   | 60   | 92   | 82   |
| 4B      | CYANAZINE            | 4.00 L  | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 5       | METOLACHLOR          | 8.00 E  | 2.000 LB/AC | PRE       | 0                 | 90   | 85   | 58   | 38   | 75   | 38   |
| 6A      | METOLACHLOR          | 8.00 E  | 2.000 LB/AC | PRE       | 0                 | 90   | 80   | 100  | 85   | 95   | 90   |
| 6B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 7A      | METOLACHLOR          | 8.00 E  | 4.000 LB/AC | PRE       | 0                 | 90   | 85   | 98   | 78   | 95   | 92   |
| 7B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 8A      | METOLACHLOR          | 8.00 E  | 2.000 LB/AC | PRE       | 0                 | 82   | 78   | 98   | 78   | 100  | 95   |
| 8B      | PPG 4000             | 4.80 FL | .900 LB/AC  | PRE       |                   |      |      |      |      |      |      |
| 9A      | METOLACHLOR          | 8.00 E  | 2.000 LB/AC | PRE       | 0                 | 90   | 82   | 85   | 78   | 92   | 85   |
| 9B      | PPG 1259             | 3.00 FL | .150 LB/AC  | PRE       |                   |      |      |      |      |      |      |
| 9C      | CYANAZINE            | 4.00 L  | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 10      | ATRAZINE             | 4.00 L  | 1.000 LB/AC | PRE       | 0                 | 25   | 25   | 98   | 85   | 98   | 95   |
| 11      | ATRAZINE             | 4.00 L  | 2.000 LB/AC | PRE       | 0                 | 52   | 55   | 98   | 88   | 95   | 92   |
| 12A     | ATRAZINE             | 4.00 L  | 2.250 LB/AC | PRE       | 0                 | 78   | 70   | 95   | 90   | 100  | 95   |
| 12B     | CYANAZINE            | 4.00 L  | .750 LB/AC  | PRE       |                   |      |      |      |      |      |      |
| 13      | CYANAZINE            | 4.00 L  | 2.000 LB/AC | PRE       | 0                 | 72   | 65   | 80   | 72   | 92   | 85   |
| 14      | CYANAZINE            | 4.00 L  | 3.000 LB/AC | PRE       | 0                 | 90   | 88   | 88   | 80   | 95   | 82   |
| 15      | METALACHLOR + ATRAZI | 6.00 L  | 4.500 LB/AC | PRE       | 0                 | 90   | 82   | 98   | 85   | 100  | 98   |
| 16A     | PENDIMETHALIN        | 4.00 E  | 1.500 LB/AC | PRE       | 0                 | 85   | 78   | 95   | 88   | 95   | 92   |
| 16B     | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7001 CORN PREEMERGENCE

| TRT NO. | HERBICIDE TREATMENT  | FORMULA   | RATE        | APPL METH | -----JULY 14----- |      |      |      |      |      |      |
|---------|----------------------|-----------|-------------|-----------|-------------------|------|------|------|------|------|------|
|         |                      |           |             |           | CRIN              | LACG | GIFT | COLQ | IIMG | RRPW | VELE |
| 17A     | PENDIMETHALIN        | 4.00 E    | 1.500 LB/AC | PRE       | 0                 | 90   | 82   | 92   | 75   | 98   | 92   |
| 17B     | CYANAZINE            | 4.00 L    | 2.000 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 18      | CYANAZINE + ATRAZINE | 4.00 L    | 2.000 LB/AC | PRE       | 0                 | 58   | 52   | 95   | 90   | 98   | 90   |
| 19A     | CYANAZINE + ATRAZINE | 4.00 L    | 1.330 LB/AC | PRE       | 0                 | 75   | 60   | 100  | 88   | 95   | 92   |
| 19B     | ATRAZINE             | 4.00 L    | .660 LB/AC  | PRE       |                   |      |      |      |      |      |      |
| 20A     | CYANAZINE + ATRAZINE | 4.00 L    | 2.000 LB/AC | PRE       | 0                 | 85   | 80   | 98   | 85   | 98   | 98   |
| 20B     | ATRAZINE             | 4.00 L    | 1.000 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 21A     | CGA 180937           | 7.80 EC   | 2.000 LB/AC | PRE       | 0                 | 92   | 82   | 95   | 82   | 98   | 88   |
| 21B     | ATRAZINE             | 4.00 L    | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 22A     | CGA 180937           | 7.80 EC   | 4.000 LB/AC | PRE       | 0                 | 92   | 85   | 100  | 80   | 95   | 95   |
| 22B     | ATRAZINE             | 4.00 L    | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 23A     | RS-012               | 3.75 EC   | .940 LB/AC  | PRE       | 0                 | 52   | 40   | 92   | 85   | 100  | 88   |
| 23B     | ATRAZINE             | 90.00 WDG | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 24A     | RS-012               | 3.75 EC   | .940 LB/AC  | PRE       | 0                 | 75   | 72   | 75   | 62   | 72   | 65   |
| 24B     | CYANAZINE            | 80.00 WP  | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 25A     | SC 0735              | 75.00 WP  | .500 LB/AC  | PRE       | 0                 | 80   | 75   | 90   | 75   | 95   | 92   |
| 25B     | R-29148              | 2.00 E    | .083 LB/AC  | PRE       |                   |      |      |      |      |      |      |
| 25C     | ATRAZINE             | 4.00 L    | 1.000 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 26A     | SC 0735              | 75.00 WP  | .750 LB/AC  | PRE       | 0                 | 90   | 82   | 98   | 82   | 100  | 98   |
| 26B     | R-29148              | 2.00 E    | .125 LB/AC  | PRE       |                   |      |      |      |      |      |      |
| 26C     | ATRAZINE             | 4.00 L    | 1.000 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 27A     | SC 0774              | 75.00 WP  | .380 LB/AC  | PRE       | 0                 | 50   | 50   | 95   | 82   | 95   | 90   |
| 27B     | R-29148              | 2.00 E    | .063 LB/AC  | PRE       |                   |      |      |      |      |      |      |
| 27C     | ATRAZINE             | 4.00 L    | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 28A     | SC 0774              | 75.00 WP  | .500 LB/AC  | PRE       | 0                 | 72   | 65   | 98   | 90   | 98   | 92   |
| 28B     | R-29148              | 2.00 E    | .083 LB/AC  | PRE       |                   |      |      |      |      |      |      |
| 28C     | ATRAZINE             | 4.00 L    | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 29A     | SC 0774              | 75.00 WP  | .750 LB/AC  | PRE       | 0                 | 88   | 78   | 92   | 82   | 98   | 98   |
| 29B     | R-29148              | 2.00 E    | .125 LB/AC  | PRE       |                   |      |      |      |      |      |      |
| 29C     | ATRAZINE             | 4.00 L    | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7001 CORN PREEMERGENCE

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----JULY 14----- |      |      |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|-------------------|------|------|------|------|------|------|
|         |                     |          |             |           | CRIN              | LACG | GIFT | COLQ | ILMG | RRPW | VELE |
| 30A     | SC 0774             | 75.00 WP | .750 LB/AC  | PRE       | 0                 | 88   | 82   | 98   | 82   | 98   | 98   |
| 30B     | R-29148             | 2.00 E   | .250 LB/AC  | PRE       |                   |      |      |      |      |      |      |
| 30C     | ATRAZINE            | 4.00 L   | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 31A     | SC 0774             | 75.00 WP | 1.000 LB/AC | PRE       | 0                 | 85   | 80   | 95   | 85   | 100  | 98   |
| 31B     | R-29148             | 2.00 E   | .166 LB/AC  | PRE       |                   |      |      |      |      |      |      |
| 31C     | ATRAZINE            | 4.00 L   | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 32A     | SC 0774             | 75.00 WP | 1.000 LB/AC | PRE       | 0                 | 88   | 80   | 95   | 85   | 100  | 95   |
| 32B     | R-29148             | 2.00 E   | .330 LB/AC  | PRE       |                   |      |      |      |      |      |      |
| 32C     | ATRAZINE            | 4.00 L   | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 33A     | SC 0774             | 75.00 WP | 1.250 LB/AC | PRE       | 0                 | 98   | 88   | 98   | 85   | 100  | 98   |
| 33B     | R-29148             | 2.00 E   | .208 LB/AC  | PRE       |                   |      |      |      |      |      |      |
| 33C     | ATRAZINE            | 4.00 L   | 1.500 LB/AC | PRE       |                   |      |      |      |      |      |      |
| 34      | SAN 825H            | 4.67 FL  | 3.500 LB/AC | PRE       | 0                 | 80   | 72   | 100  | 92   | 100  | 98   |
| 35      | SAN DCA1            | 4.67 FL  | 3.500 LB/AC | PRE       | 0                 | 80   | 72   | 100  | 92   | 98   | 92   |
| 36      | CHECK (CULTIVATED)  | .00 CK   | .000        |           | 0                 | 100  | 100  | 100  | 100  | 100  | 100  |
|         |                     |          | LSD (05):   |           | 0                 | 14   | 12   | 13   | 13   | 15   | 17   |

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

FERTILIZATION (LB/AC): 250 N, 60 P, 60 K PH: 6.3 O.M.: 3.3%

DATE PLANTED: MAY 6 DATE TREATED: PRE MAY 6

VARIETY: PIONEER 3320

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7002 CORN PREPLANT INCORPORATED

| TRT NO. | HERBICIDE TREATMENT  | FORMULA | RATE        | APPL METH | -----JUNE 14----- |      |      |      |      |      |      |      |      |      |      |
|---------|----------------------|---------|-------------|-----------|-------------------|------|------|------|------|------|------|------|------|------|------|
|         |                      |         |             |           | GRAS              | BRLE | CRIN | GIFT | GRFT | JIWE | COLQ | ILMG | TAMG | RRPW | VELE |
| 1       | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PPI       | 92                | 65   | 0    | 92   | 92   | 88   | 88   | 62   | 62   | 88   | 58   |
| 2A      | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PPI       | 95                | 92   | 0    | 95   | 95   | 100  | 100  | 92   | 98   | 100  | 98   |
| 2B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PPI       |                   |      |      |      |      |      |      |      |      |      |      |
| 3       | METOLACHLOR          | 8.00 E  | 2.000 LB/AC | PPI       | 98                | 62   | 0    | 98   | 98   | 92   | 90   | 65   | 62   | 92   | 60   |
| 4A      | METOLACHLOR          | 8.00 E  | 2.000 LB/AC | PPI       | 95                | 95   | 0    | 95   | 98   | 100  | 98   | 95   | 98   | 98   | 100  |
| 4B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PPI       |                   |      |      |      |      |      |      |      |      |      |      |
| 5A      | EPTC + R-25788       | 6.70 E  | 4.000 LB/AC | PPI       | 92                | 95   | 0    | 92   | 92   | 98   | 100  | 98   | 98   | 100  | 100  |
| 5B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PPI       |                   |      |      |      |      |      |      |      |      |      |      |
| 6A      | BUTYLATE + R-25788   | 6.70 E  | 4.000 LB/AC | PPI       | 92                | 95   | 0    | 92   | 92   | 100  | 100  | 100  | 100  | 95   | 95   |
| 6B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PPI       |                   |      |      |      |      |      |      |      |      |      |      |
| 7       | BUTYLATE+ PK MIX ATR | 5.50 E  | 4.500 LB/AC | PPI       | 90                | 98   | 0    | 90   | 90   | 100  | 98   | 98   | 98   | 100  | 100  |
| 8       | SC 5676 + R25788     | 7.00 E  | 2.000 LB/AC | PPI       | 100               | 88   | 0    | 100  | 100  | 100  | 95   | 88   | 88   | 100  | 98   |
| 9       | SC 5676 + R25788     | 7.00 E  | 4.000 LB/AC | PPI       | 100               | 88   | 0    | 100  | 100  | 100  | 100  | 88   | 90   | 98   | 100  |
| 10      | CHECK (CULTIVATED)   | .00 CK  | .000        |           | 100               | 100  | 0    | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
|         |                      |         | LSD(05):    |           | 6                 | 7    | 0    | 6    | 5    | 6    | 4    | 7    | 7    | 5    | 6    |

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM  
 FERTILIZATION (LB/AC): 250 N, 60 P, 60 K PH: 6.3 O.M.: 3.3%  
 DATE PLANTED: MAY 6 DATE TREATED: PPI MAY 6  
 VARIETY: PIONEER 3320

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7002 CORN PREPLANT INCORPORATED

| TRT NO. | HERBICIDE TREATMENT  | FORMULA | RATE            | APPL METH | -----JULY 14----- |      |      |      |      |      |      |      |      |
|---------|----------------------|---------|-----------------|-----------|-------------------|------|------|------|------|------|------|------|------|
|         |                      |         |                 |           | CRIN              | GIFT | GRFT | JIWE | COLO | ILMG | TAMG | RRPW | VELE |
| 1       | ALACHLOR             | 4.00 MT | 2.500 LB/AC PPI |           | 0                 | 90   | 90   | 85   | 78   | 60   | 60   | 88   | 58   |
| 2A      | ALACHLOR             | 4.00 MT | 2.500 LB/AC PPI |           | 0                 | 92   | 92   | 100  | 100  | 85   | 92   | 98   | 92   |
| 2B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC PPI |           |                   |      |      |      |      |      |      |      |      |
| 3       | METOLACHLOR          | 8.00 E  | 2.000 LB/AC PPI |           | 0                 | 95   | 95   | 92   | 85   | 62   | 60   | 90   | 60   |
| 4A      | METOLACHLOR          | 8.00 E  | 2.000 LB/AC PPI |           | 0                 | 92   | 92   | 100  | 98   | 88   | 90   | 98   | 98   |
| 4B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC PPI |           |                   |      |      |      |      |      |      |      |      |
| 5A      | EPTC + R-25788       | 6.70 E  | 4.000 LB/AC PPI |           | 0                 | 88   | 88   | 92   | 98   | 90   | 92   | 100  | 100  |
| 5B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC PPI |           |                   |      |      |      |      |      |      |      |      |
| 6A      | BUTYLATE + R-25788   | 6.70 E  | 4.000 LB/AC PPI |           | 0                 | 85   | 88   | 100  | 98   | 92   | 92   | 95   | 95   |
| 6B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC PPI |           |                   |      |      |      |      |      |      |      |      |
| 7       | BUTYLATE+ PK MIX ATR | 5.50 E  | 4.500 LB/AC PPI |           | 0                 | 82   | 85   | 95   | 98   | 88   | 90   | 100  | 100  |
| 8       | SC 5676 + R25788     | 7.00 E  | 2.000 LB/AC PPI |           | 0                 | 92   | 100  | 100  | 92   | 78   | 85   | 100  | 98   |
| 9       | SC 5676 + R25788     | 7.00 E  | 4.000 LB/AC PPI |           | 0                 | 92   | 98   | 100  | 100  | 75   | 82   | 95   | 98   |
| 10      | CHECK (CULTIVATED)   | .00 CK  | .000            |           | 0                 | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
|         |                      |         | LSD (05):       |           | 0                 | 6    | 8    | 9    | 7    | 7    | 7    | 6    | 8    |

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM  
 FERTILIZATION (LB/AC): 250 N, 60 P, 60 K PH: 6.3 O.M.: 3.3%  
 DATE PLANTED: MAY 6 DATE TREATED: PPI MAY 6  
 VARIETY: PIONEER 3320

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7003 CORN POSTEMERGENCE

| TRT NO. | HERBICIDE TREATMENT | FORMULA | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|---------------------|---------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                     |         |             |           | GRAS                            | BRLE | CRIN | GIFT | FAPA | JIWE | COLQ | VELE |
| 1A      | ALACHLOR            | 4.00 MT | 2.500 LB/AC | PRE       | 70                              | 100  | 0    | 82   | 72   | 100  | 100  | 100  |
| 1B      | ATRAZINE            | 4.00 L  | 1.500 LB/AC | EP        |                                 |      |      |      |      |      |      |      |
| 1C      | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 2A      | ALACHLOR            | 4.00 MT | 2.500 LB/AC | PRE       | 48                              | 85   | 0    | 48   | 92   | 92   | 100  | 90   |
| 2B      | 2,4-D AMINE         | 4.00 E  | .500 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 3A      | ALACHLOR            | 4.00 MT | 2.500 LB/AC | PRE       | 60                              | 100  | 0    | 60   | 95   | 100  | 100  | 98   |
| 3B      | DICAMBA             | 4.00 S  | .500 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 4A      | ALACHLOR            | 4.00 MT | 2.500 LB/AC | PRE       | 35                              | 100  | 0    | 35   | 90   | 100  | 100  | 100  |
| 4B      | BROMOXYNIL 2        | 2.00 E  | .380 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 5A      | ALACHLOR            | 4.00 MT | 2.500 LB/AC | PRE       | 38                              | 100  | 0    | 48   | 70   | 100  | 100  | 100  |
| 5B      | BROMOXYNIL          | 1.00 E  | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 5C      | WITH ATRAZINE       | 2.00 L  | .380 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 6A      | ALACHLOR            | 4.00 MT | 2.500 LB/AC | PRE       | 48                              | 100  | 0    | 52   | 82   | 100  | 100  | 100  |
| 6B      | BROMOXYNIL          | 1.00 E  | .250 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 6C      | WITH ATRAZINE       | 2.00 L  | .500 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 7A      | ALACHLOR            | 4.00 MT | 2.500 LB/AC | PRE       | 72                              | 100  | 0    | 72   | 98   | 100  | 100  | 100  |
| 7B      | BROMOXYNIL          | 1.00 E  | .380 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 7C      | WITH ATRAZINE       | 2.00 L  | .750 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 8A      | ALACHLOR            | 4.00 MT | 1.000 LB/AC | PRE       | 95                              | 38   | 0    | 95   | 95   | 60   | 52   | 98   |
| 8B      | CINMETHYLIN         | 7.00 EC | 1.000 LB/AC | EP        |                                 |      |      |      |      |      |      |      |
| 8C      | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 9A      | ALACHLOR            | 4.00 MT | 1.000 LB/AC | PRE       | 100                             | 45   | 0    | 100  | 100  | 78   | 48   | 98   |
| 9B      | CINMETHYLIN         | 7.00 EC | 1.250 LB/AC | EP        |                                 |      |      |      |      |      |      |      |
| 9C      | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 10A     | ALACHLOR            | 4.00 MT | 1.000 LB/AC | PRE       | 98                              | 100  | 0    | 98   | 100  | 100  | 100  | 100  |
| 10B     | CINMETHYLIN         | 7.00 EC | 1.000 LB/AC | EP        |                                 |      |      |      |      |      |      |      |
| 10C     | ATRAZINE            | 4.00 L  | 1.000 LB/AC | EP        |                                 |      |      |      |      |      |      |      |
| 10D     | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 11A     | ALACHLOR            | 4.00 MT | 1.000 LB/AC | PRE       | 100                             | 100  | 0    | 100  | 100  | 100  | 100  | 100  |
| 11B     | CINMETHYLIN         | 7.00 EC | 1.250 LB/AC | EP        |                                 |      |      |      |      |      |      |      |
| 11C     | ATRAZINE            | 4.00 L  | 1.000 LB/AC | EP        |                                 |      |      |      |      |      |      |      |
| 11D     | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 12A     | ALACHLOR            | 4.00 MT | 2.500 LB/AC | PRE       | 52                              | 100  | 0    | 52   | 85   | 100  | 100  | 100  |
| 12B     | BENTAZON + ATRAZINE | 3.20 L  | 1.000 LB/AC | MP        |                                 |      |      |      |      |      |      |      |
| 12C     | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7003 CORN POSTEMERGENCE

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                     |          |             |           | GRAS                            | BRLE | CRIN | GIFT | FAPA | JIWE | COLQ | VELE |
| 13A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 40                              | 100  | 0    | 40   | 88   | 100  | 100  | 100  |
| 13B     | DPX M6316           | 75.00 DF | .016 LB/AC  | 4LF       |                                 |      |      |      |      |      |      |      |
| 13C     | X-77 (SURFACTANT)   | .50 WA   | .125 %      | 4LF       |                                 |      |      |      |      |      |      |      |
| 14A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 25                              | 100  | 0    | 25   | 90   | 100  | 100  | 100  |
| 14B     | DPX M6316           | 75.00 DF | .016 LB/AC  | 4LF       |                                 |      |      |      |      |      |      |      |
| 14C     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | 4LF       |                                 |      |      |      |      |      |      |      |
| 15A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 12                              | 100  | 2    | 12   | 72   | 100  | 100  | 100  |
| 15B     | DPX M6316           | 75.00 DF | .030 LB/AC  | 4LF       |                                 |      |      |      |      |      |      |      |
| 15C     | X-77 (SURFACTANT)   | .50 WA   | .125 %      | 4LF       |                                 |      |      |      |      |      |      |      |
| 16A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 18                              | 100  | 5    | 18   | 92   | 100  | 100  | 100  |
| 16B     | DPX M6316           | 75.00 DF | .030 LB/AC  | 4LF       |                                 |      |      |      |      |      |      |      |
| 16C     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | 4LF       |                                 |      |      |      |      |      |      |      |
| 17A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 60                              | 100  | 0    | 60   | 95   | 100  | 100  | 100  |
| 17B     | BENAZOLIN           | 4.00 F   | .250 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 17C     | ATRAZINE            | 4.00 L   | .500 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 17D     | OIL CONCENTRATE     | .00 AD   | .500 QT/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 18A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 48                              | 100  | 0    | 48   | 92   | 100  | 100  | 100  |
| 18B     | BENAZOLIN           | 4.00 F   | .250 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 18C     | ATRAZINE            | 4.00 L   | .500 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 18D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 19A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 65                              | 100  | 0    | 65   | 92   | 100  | 100  | 100  |
| 19B     | PPG 4000            | 4.80 FL  | .600 LB/AC  | 5LF       |                                 |      |      |      |      |      |      |      |
| 20A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 88                              | 100  | 2    | 90   | 98   | 100  | 100  | 100  |
| 20B     | PPG 1259            | 3.00 FL  | .100 LB/AC  | 5LF       |                                 |      |      |      |      |      |      |      |
| 20C     | CYANAZINE           | 80.00 WP | 1.000 LB/AC | 5LF       |                                 |      |      |      |      |      |      |      |
| 21A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 75                              | 100  | 0    | 85   | 95   | 100  | 100  | 100  |
| 21B     | PPG 1259            | 3.00 FL  | .100 LB/AC  | 5LF       |                                 |      |      |      |      |      |      |      |
| 21C     | 2,4-D AMINE         | 4.00 E   | .250 LB/AC  | 5LF       |                                 |      |      |      |      |      |      |      |
| 22A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 42                              | 95   | 0    | 42   | 92   | 100  | 100  | 92   |
| 22B     | RS-105              | 60.00 WP | 1.050 LB/AC | EP        |                                 |      |      |      |      |      |      |      |
| 23A     | ATRAZINE            | 4.00 L   | 1.500 LB/AC | EP        | 20                              | 100  | 0    | 75   | 22   | 100  | 100  | 98   |
| 23B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 24A     | ATRAZINE            | 4.00 L   | 2.000 LB/AC | EP        | 30                              | 100  | 0    | 95   | 30   | 100  | 100  | 100  |
| 24B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7003 CORN POSTEMERGENCE

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                     |          |             |           | GRAS                            | BRLE | CRIN | GIFT | FAPA | JIWE | COLO | VELE |
| 25A     | ATRAZINE            | 4.00 L   | 2.000 LB/AC | LP        | 10                              | 100  | 0    | 22   | 42   | 100  | 100  | 100  |
| 25B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | LP        |                                 |      |      |      |      |      |      |      |
| 26A     | ATRAZINE            | 4.00 L   | 2.000 LB/AC | LP        | 20                              | 100  | 0    | 82   | 20   | 100  | 100  | 100  |
| 26B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | LP        |                                 |      |      |      |      |      |      |      |
| 26C     | ATRAZINE            | 4.00 L   | 2.000 LB/AC | +7D       |                                 |      |      |      |      |      |      |      |
| 26D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | +7D       |                                 |      |      |      |      |      |      |      |
| 27A     | PENDIMETHALIN       | 4.00 E   | 1.500 LB/AC | SPK       | 88                              | 100  | 0    | 90   | 90   | 100  | 100  | 100  |
| 27B     | ATRAZINE            | 4.00 L   | 1.500 LB/AC | SPK       |                                 |      |      |      |      |      |      |      |
| 28A     | PENDIMETHALIN       | 4.00 E   | 1.500 LB/AC | 3LF       | 30                              | 100  | 0    | 45   | 45   | 100  | 100  | 100  |
| 28B     | ATRAZINE            | 4.00 L   | 1.500 LB/AC | 3LF       |                                 |      |      |      |      |      |      |      |
| 29A     | PENDIMETHALIN       | 4.00 E   | 1.500 LB/AC | SPK       | 95                              | 100  | 0    | 95   | 98   | 100  | 100  | 100  |
| 29B     | CYANAZINE           | 80.00 WP | 2.000 LB/AC | SPK       |                                 |      |      |      |      |      |      |      |
| 30A     | PENDIMETHALIN       | 4.00 E   | 1.500 LB/AC | 3LF       | 58                              | 100  | 2    | 82   | 62   | 100  | 100  | 100  |
| 30B     | CYANAZINE           | 80.00 WP | 2.000 LB/AC | 3LF       |                                 |      |      |      |      |      |      |      |
| 31      | CYANAZINE           | 80.00 WP | 2.000 LB/AC | EP        | 58                              | 42   | 0    | 68   | 72   | 100  | 52   | 58   |
| 32A     | TRIDIPHANE          | 4.00 E   | .500 LB/AC  | EP        | 95                              | 100  | 0    | 100  | 95   | 100  | 100  | 100  |
| 32B     | ATRAZINE            | 4.00 L   | 1.500 LB/AC | EP        |                                 |      |      |      |      |      |      |      |
| 32C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 33A     | TRIDIPHANE          | 4.00 E   | .500 LB/AC  | LP        | 12                              | 100  | 0    | 60   | 18   | 100  | 100  | 100  |
| 33B     | ATRAZINE            | 4.00 L   | 2.000 LB/AC | LP        |                                 |      |      |      |      |      |      |      |
| 33C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | LP        |                                 |      |      |      |      |      |      |      |
| 34A     | TRIDIPHANE          | 4.00 E   | .500 LB/AC  | LP        | 25                              | 100  | 0    | 68   | 28   | 100  | 100  | 100  |
| 34B     | ATRAZINE            | 4.00 L   | 2.000 LB/AC | LP        |                                 |      |      |      |      |      |      |      |
| 34C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | LP        |                                 |      |      |      |      |      |      |      |
| 34D     | ATRAZINE            | 4.00 L   | 1.000 LB/AC | +7D       |                                 |      |      |      |      |      |      |      |
| 34E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | +7D       |                                 |      |      |      |      |      |      |      |
| 35A     | TRIDIPHANE          | 4.00 E   | .500 LB/AC  | EP        | 98                              | 100  | 0    | 98   | 100  | 100  | 100  | 100  |
| 35B     | CYANAZINE           | 80.00 WP | 1.600 LB/AC | EP        |                                 |      |      |      |      |      |      |      |
| 36A     | TRIDIPHANE          | 4.00 E   | .500 LB/AC  | EP        | 100                             | 100  | 0    | 100  | 100  | 100  | 100  | 100  |
| 36B     | CYANAZINE           | 80.00 WP | .800 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 36C     | ATRAZINE            | 4.00 L   | .800 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 37      | DICAMBA             | 4.00 S   | .250 LB/AC  | MP        | 10                              | 100  | 0    | 20   | 45   | 100  | 100  | 100  |



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7003 CORN POSTEMERGENCE

| TRT NO.  | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|----------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|          |                      |          |             |           | GRAS                            | BRLE | CRIN | GIFT | FAPA | JIWE | COLQ | VELE |
| 38       | DICAMBA              | 4.00 S   | .380 LB/AC  | MP        | 10                              | 100  | 2    | 10   | 40   | 100  | 100  | 100  |
| 39       | DICAMBA + ATRAZINE   | 3.20 L   | 1.400 LB/AC | EP        | 12                              | 100  | 0    | 48   | 30   | 100  | 100  | 100  |
| 40A      | SC 0735              | 75.00 WP | .250 LB/AC  | 2LF       | 98                              | 100  | 0    | 98   | 98   | 100  | 100  | 100  |
| 40B      | ATRAZINE             | 4.00 L   | 1.000 LB/AC | 2LF       |                                 |      |      |      |      |      |      |      |
| 40C      | TWEEN 20 (SURFACTANT | .00 WA   | .250 %      | 2LF       |                                 |      |      |      |      |      |      |      |
| 41A      | SC 0735              | 75.00 WP | .380 LB/AC  | 2LF       | 98                              | 100  | 0    | 100  | 98   | 100  | 100  | 100  |
| 41B      | ATRAZINE             | 4.00 L   | 1.000 LB/AC | 2LF       |                                 |      |      |      |      |      |      |      |
| 41C      | TWEEN 20 (SURFACTANT | .00 WA   | .250 %      | 2LF       |                                 |      |      |      |      |      |      |      |
| 42A      | SC 0051              | 3.00 E   | .250 LB/AC  | 2LF       | 12                              | 100  | 0    | 12   | 65   | 100  | 100  | 100  |
| 42B      | TWEEN 20 (SURFACTANT | .00 WA   | .250 %      | 2LF       |                                 |      |      |      |      |      |      |      |
| 43A      | SC 0051              | 3.00 E   | .500 LB/AC  | 2LF       | 12                              | 100  | 0    | 18   | 75   | 100  | 100  | 100  |
| 43B      | TWEEN 20 (SURFACTANT | .00 WA   | .250 %      | 2LF       |                                 |      |      |      |      |      |      |      |
| 44A      | SC 0051              | 3.00 E   | .250 LB/AC  | 2LF       | 32                              | 100  | 0    | 85   | 30   | 100  | 100  | 100  |
| 44B      | ATRAZINE             | 4.00 L   | 1.000 LB/AC | 2LF       |                                 |      |      |      |      |      |      |      |
| 44C      | TWEEN 20 (SURFACTANT | .00 WA   | .250 %      | 2LF       |                                 |      |      |      |      |      |      |      |
| 45A      | SC 0051              | 3.00 E   | .500 LB/AC  | 2LF       | 58                              | 100  | 0    | 82   | 52   | 100  | 100  | 100  |
| 45B      | ATRAZINE             | 4.00 L   | 1.000 LB/AC | 2LF       |                                 |      |      |      |      |      |      |      |
| 45C      | TWEEN 20 (SURFACTANT | .00 WA   | .250 %      | 2LF       |                                 |      |      |      |      |      |      |      |
| 46A      | SC 0051              | 3.00 E   | .750 LB/AC  | 2LF       | 62                              | 100  | 0    | 92   | 62   | 100  | 100  | 100  |
| 46B      | ATRAZINE             | 4.00 L   | 1.000 LB/AC | 2LF       |                                 |      |      |      |      |      |      |      |
| 46C      | TWEEN 20 (SURFACTANT | .00 WA   | .250 %      | 2LF       |                                 |      |      |      |      |      |      |      |
| 47       | SAN 825H             | 4.67 FL  | 2.330 LB/AC | EP        | 22                              | 100  | 0    | 58   | 40   | 100  | 100  | 100  |
| 48       | SAN DCA1             | 4.67 FL  | 2.330 LB/AC | EP        | 22                              | 100  | 0    | 62   | 25   | 100  | 100  | 100  |
| 49       | CHECK (CULTIVATED)   | .00 CK   | .000        |           | 100                             | 100  | 0    | 100  | 100  | 100  | 100  | 100  |
| LSD(05): |                      |          |             |           | 23                              | 11   | NS   | 21   | 19   | 10   | 8    | 10   |

LOCATION: SPINDLETOP FARM  
 FERTILIZATION (LB/AC): 250 N, 60 P, 60 K  
 DATE PLANTED: MAY 6  
 VARIETY: PIONEER 3320

SOIL TYPE: MAURY SILT LOAM  
 PH: 6.4 O.M.: 4.4%  
 DATE TREATED: PRE MAY 6  
 SPK MAY 13  
 EP, 2LF MAY 18  
 3LF MAY 20  
 4LF MAY 22  
 MP, 5LF MAY 26

## DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7003 CORN POSTEMERGENCE

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA | RATE        | APPL<br>METH | ----8 WEEKS AFTER APPLIED -- |      |      |      |      |
|------------|------------------------|---------|-------------|--------------|------------------------------|------|------|------|------|
|            |                        |         |             |              | CRIN                         | GIFT | FAPA | JIWE | COLQ |
| 1A         | ALACHLOR               | 4.00 MT | 2.500 LB/AC | PRE          | 0                            | 75   | 68   | 100  | 100  |
| 1B         | ATRAZINE               | 4.00 L  | 1.500 LB/AC | EP           |                              |      |      |      |      |
| 1C         | OIL CONCENTRATE        | .00 AD  | 1.000 QT/AC | EP           |                              |      |      |      |      |
| 2A         | ALACHLOR               | 4.00 MT | 2.500 LB/AC | PRE          | 0                            | 45   | 88   | 92   | 98   |
| 2B         | 2,4-D AMINE            | 4.00 E  | .500 LB/AC  | EP           |                              |      |      |      |      |
| 3A         | ALACHLOR               | 4.00 MT | 2.500 LB/AC | PRE          | 0                            | 55   | 95   | 100  | 100  |
| 3B         | DICAMBA                | 4.00 S  | .500 LB/AC  | EP           |                              |      |      |      |      |
| 4A         | ALACHLOR               | 4.00 MT | 2.500 LB/AC | PRE          | 0                            | 38   | 88   | 100  | 100  |
| 4B         | BROMOXYNIL 2           | 2.00 E  | .380 LB/AC  | EP           |                              |      |      |      |      |
| 5A         | ALACHLOR               | 4.00 MT | 2.500 LB/AC | PRE          | 0                            | 45   | 72   | 100  | 100  |
| 5B         | BROMOXYNIL             | 1.00 E  | .188 LB/AC  | MP           |                              |      |      |      |      |
| 5C         | WITH ATRAZINE          | 2.00 L  | .380 LB/AC  | MP           |                              |      |      |      |      |
| 6A         | ALACHLOR               | 4.00 MT | 2.500 LB/AC | PRE          | 0                            | 50   | 78   | 100  | 100  |
| 6B         | BROMOXYNIL             | 1.00 E  | .250 LB/AC  | MP           |                              |      |      |      |      |
| 6C         | WITH ATRAZINE          | 2.00 L  | .500 LB/AC  | MP           |                              |      |      |      |      |
| 7A         | ALACHLOR               | 4.00 MT | 2.500 LB/AC | PRE          | 0                            | 65   | 98   | 100  | 100  |
| 7B         | BROMOXYNIL             | 1.00 E  | .380 LB/AC  | MP           |                              |      |      |      |      |
| 7C         | WITH ATRAZINE          | 2.00 L  | .750 LB/AC  | MP           |                              |      |      |      |      |
| 8A         | ALACHLOR               | 4.00 MT | 1.000 LB/AC | PRE          | 0                            | 92   | 98   | 62   | 50   |
| 8B         | CINMETHYLIN            | 7.00 EC | 1.000 LB/AC | EP           |                              |      |      |      |      |
| 8C         | OIL CONCENTRATE        | .00 AD  | 1.000 QT/AC | EP           |                              |      |      |      |      |
| 9A         | ALACHLOR               | 4.00 MT | 1.000 LB/AC | PRE          | 0                            | 100  | 100  | 80   | 38   |
| 9B         | CINMETHYLIN            | 7.00 EC | 1.250 LB/AC | EP           |                              |      |      |      |      |
| 9C         | OIL CONCENTRATE        | .00 AD  | 1.000 QT/AC | EP           |                              |      |      |      |      |
| 10A        | ALACHLOR               | 4.00 MT | 1.000 LB/AC | PRE          | 0                            | 98   | 98   | 100  | 100  |
| 10B        | CINMETHYLIN            | 7.00 EC | 1.000 LB/AC | EP           |                              |      |      |      |      |
| 10C        | ATRAZINE               | 4.00 L  | 1.000 LB/AC | EP           |                              |      |      |      |      |
| 10D        | OIL CONCENTRATE        | .00 AD  | 1.000 QT/AC | EP           |                              |      |      |      |      |
| 11A        | ALACHLOR               | 4.00 MT | 1.000 LB/AC | PRE          | 0                            | 100  | 100  | 100  | 100  |
| 11B        | CINMETHYLIN            | 7.00 EC | 1.250 LB/AC | EP           |                              |      |      |      |      |
| 11C        | ATRAZINE               | 4.00 L  | 1.000 LB/AC | EP           |                              |      |      |      |      |
| 11D        | OIL CONCENTRATE        | .00 AD  | 1.000 QT/AC | EP           |                              |      |      |      |      |
| 12A        | ALACHLOR               | 4.00 MT | 2.500 LB/AC | PRE          | 0                            | 50   | 85   | 100  | 100  |
| 12B        | BENTAZON + ATRAZINE    | 3.20 L  | 1.000 LB/AC | MP           |                              |      |      |      |      |
| 12C        | OIL CONCENTRATE        | .00 AD  | 1.000 QT/AC | MP           |                              |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7003 CORN POSTEMERGENCE

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | ----8 WEEKS AFTER APPLIED -- |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|------------------------------|------|------|------|------|
|         |                     |          |             |           | CRIN                         | GIFT | FAPA | JIWE | COLQ |
| 13A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                            | 25   | 85   | 100  | 100  |
| 13B     | DPX M6316           | 75.00 DF | .016 LB/AC  | 4LF       |                              |      |      |      |      |
| 13C     | X-77 (SURFACTANT)   | .50 WA   | .125 %      | 4LF       |                              |      |      |      |      |
| 14A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                            | 25   | 90   | 100  | 100  |
| 14B     | DPX M6316           | 75.00 DF | .016 LB/AC  | 4LF       |                              |      |      |      |      |
| 14C     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | 4LF       |                              |      |      |      |      |
| 15A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                            | 12   | 75   | 100  | 100  |
| 15B     | DPX M6316           | 75.00 DF | .030 LB/AC  | 4LF       |                              |      |      |      |      |
| 15C     | X-77 (SURFACTANT)   | .50 WA   | .125 %      | 4LF       |                              |      |      |      |      |
| 16A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                            | 15   | 85   | 100  | 100  |
| 16B     | DPX M6316           | 75.00 DF | .030 LB/AC  | 4LF       |                              |      |      |      |      |
| 16C     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | 4LF       |                              |      |      |      |      |
| 17A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                            | 58   | 85   | 100  | 100  |
| 17B     | BENAZOLIN           | 4.00 F   | .250 LB/AC  | MP        |                              |      |      |      |      |
| 17C     | ATRAZINE            | 4.00 L   | .500 LB/AC  | MP        |                              |      |      |      |      |
| 17D     | OIL CONCENTRATE     | .00 AD   | .500 QT/AC  | MP        |                              |      |      |      |      |
| 18A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                            | 48   | 90   | 100  | 100  |
| 18B     | BENAZOLIN           | 4.00 F   | .250 LB/AC  | MP        |                              |      |      |      |      |
| 18C     | ATRAZINE            | 4.00 L   | .500 LB/AC  | MP        |                              |      |      |      |      |
| 18D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                              |      |      |      |      |
| 19A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                            | 65   | 95   | 100  | 100  |
| 19B     | PPG 4000            | 4.80 FL  | .600 LB/AC  | 5LF       |                              |      |      |      |      |
| 20A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                            | 90   | 98   | 100  | 100  |
| 20B     | PPG 1259            | 3.00 FL  | .100 LB/AC  | 5LF       |                              |      |      |      |      |
| 20C     | CYANAZINE           | 80.00 WP | 1.000 LB/AC | 5LF       |                              |      |      |      |      |
| 21A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                            | 75   | 92   | 100  | 100  |
| 21B     | PPG 1259            | 3.00 FL  | .100 LB/AC  | 5LF       |                              |      |      |      |      |
| 21C     | 2,4-D AMINE         | 4.00 E   | .250 LB/AC  | 5LF       |                              |      |      |      |      |
| 22A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                            | 45   | 90   | 100  | 100  |
| 22B     | RS-105              | 60.00 WP | 1.050 LB/AC | EP        |                              |      |      |      |      |
| 23A     | ATRAZINE            | 4.00 L   | 1.500 LB/AC | EP        | 0                            | 70   | 20   | 100  | 100  |
| 23B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                              |      |      |      |      |
| 24A     | ATRAZINE            | 4.00 L   | 2.000 LB/AC | EP        | 0                            | 92   | 28   | 100  | 100  |
| 24B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                              |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7003 CORN POSTEMERGENCE

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA  | RATE        | APPL<br>METH | ----8 WEEKS AFTER APPLIED -- |      |      |      |      |
|------------|------------------------|----------|-------------|--------------|------------------------------|------|------|------|------|
|            |                        |          |             |              | CRIN                         | GIFT | FAPA | JIWE | COLQ |
| 25A        | ATRAZINE               | 4.00 L   | 2.000 LB/AC | LP           | 0                            | 22   | 35   | 100  | 100  |
| 25B        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | LP           |                              |      |      |      |      |
| 26A        | ATRAZINE               | 4.00 L   | 2.000 LB/AC | LP           | 0                            | 85   | 15   | 100  | 100  |
| 26B        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | LP           |                              |      |      |      |      |
| 26C        | ATRAZINE               | 4.00 L   | 2.000 LB/AC | +7D          |                              |      |      |      |      |
| 26D        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | +7D          |                              |      |      |      |      |
| 27A        | PENDIMETHALIN          | 4.00 E   | 1.500 LB/AC | SPK          | 0                            | 90   | 82   | 100  | 100  |
| 27B        | ATRAZINE               | 4.00 L   | 1.500 LB/AC | SPK          |                              |      |      |      |      |
| 28A        | PENDIMETHALIN          | 4.00 E   | 1.500 LB/AC | 3LF          | 0                            | 48   | 48   | 100  | 100  |
| 28B        | ATRAZINE               | 4.00 L   | 1.500 LB/AC | 3LF          |                              |      |      |      |      |
| 29A        | PENDIMETHALIN          | 4.00 E   | 1.500 LB/AC | SPK          | 0                            | 92   | 92   | 100  | 100  |
| 29B        | CYANAZINE              | 80.00 WP | 2.000 LB/AC | SPK          |                              |      |      |      |      |
| 30A        | PENDIMETHALIN          | 4.00 E   | 1.500 LB/AC | 3LF          | 0                            | 80   | 45   | 100  | 100  |
| 30B        | CYANAZINE              | 80.00 WP | 2.000 LB/AC | 3LF          |                              |      |      |      |      |
| 31         | CYANAZINE              | 80.00 WP | 2.000 LB/AC | EP           | 0                            | 72   | 70   | 100  | 52   |
| 32A        | TRIDIPHANE             | 4.00 E   | .500 LB/AC  | EP           | 0                            | 100  | 88   | 100  | 100  |
| 32B        | ATRAZINE               | 4.00 L   | 1.500 LB/AC | EP           |                              |      |      |      |      |
| 32C        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                              |      |      |      |      |
| 33A        | TRIDIPHANE             | 4.00 E   | .500 LB/AC  | LP           | 0                            | 60   | 15   | 100  | 100  |
| 33B        | ATRAZINE               | 4.00 L   | 2.000 LB/AC | LP           |                              |      |      |      |      |
| 33C        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | LP           |                              |      |      |      |      |
| 34A        | TRIDIPHANE             | 4.00 E   | .500 LB/AC  | LP           | 0                            | 70   | 22   | 100  | 100  |
| 34B        | ATRAZINE               | 4.00 L   | 2.000 LB/AC | LP           |                              |      |      |      |      |
| 34C        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | LP           |                              |      |      |      |      |
| 34D        | ATRAZINE               | 4.00 L   | 1.000 LB/AC | +7D          |                              |      |      |      |      |
| 34E        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | +7D          |                              |      |      |      |      |
| 35A        | TRIDIPHANE             | 4.00 E   | .500 LB/AC  | EP           | 0                            | 95   | 100  | 100  | 100  |
| 35B        | CYANAZINE              | 80.00 WP | 1.600 LB/AC | EP           |                              |      |      |      |      |
| 36A        | TRIDIPHANE             | 4.00 E   | .500 LB/AC  | EP           | 0                            | 100  | 95   | 100  | 100  |
| 36B        | CYANAZINE              | 80.00 WP | .800 LB/AC  | EP           |                              |      |      |      |      |
| 36C        | ATRAZINE               | 4.00 L   | .800 LB/AC  | EP           |                              |      |      |      |      |
| 37         | DICAMBA                | 4.00 S   | .250 LB/AC  | MP           | 0                            | 20   | 42   | 100  | 100  |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7003 CORN POSTEMERGENCE

| TRT NO. | HERBICIDE TREATMENT   | FORMULA  | RATE        | APPL METH | ----8 WEEKS AFTER APPLIED -- |      |      |      |      |
|---------|-----------------------|----------|-------------|-----------|------------------------------|------|------|------|------|
|         |                       |          |             |           | CRIN                         | GIFT | FAPA | JIWE | COLQ |
| 38      | DICAMBA               | 4.00 S   | .380 LB/AC  | MP        | 0                            | 15   | 45   | 100  | 100  |
| 39      | DICAMBA + ATRAZINE    | 3.20 L   | 1.400 LB/AC | EP        | 0                            | 48   | 25   | 100  | 100  |
| 40A     | SC 0735               | 75.00 WP | .250 LB/AC  | 2LF       | 0                            | 98   | 92   | 100  | 100  |
| 40B     | ATRAZINE              | 4.00 L   | 1.000 LB/AC | 2LF       |                              |      |      |      |      |
| 40C     | TWEEN 20 (SURFACTANT) | .00 WA   | .250 %      | 2LF       |                              |      |      |      |      |
| 41A     | SC 0735               | 75.00 WP | .380 LB/AC  | 2LF       | 0                            | 100  | 92   | 100  | 100  |
| 41B     | ATRAZINE              | 4.00 L   | 1.000 LB/AC | 2LF       |                              |      |      |      |      |
| 41C     | TWEEN 20 (SURFACTANT) | .00 WA   | .250 %      | 2LF       |                              |      |      |      |      |
| 42A     | SC 0051               | 3.00 E   | .250 LB/AC  | 2LF       | 0                            | 18   | 65   | 100  | 100  |
| 42B     | TWEEN 20 (SURFACTANT) | .00 WA   | .250 %      | 2LF       |                              |      |      |      |      |
| 43A     | SC 0051               | 3.00 E   | .500 LB/AC  | 2LF       | 0                            | 18   | 65   | 100  | 100  |
| 43B     | TWEEN 20 (SURFACTANT) | .00 WA   | .250 %      | 2LF       |                              |      |      |      |      |
| 44A     | SC 0051               | 3.00 E   | .250 LB/AC  | 2LF       | 0                            | 82   | 30   | 100  | 100  |
| 44B     | ATRAZINE              | 4.00 L   | 1.000 LB/AC | 2LF       |                              |      |      |      |      |
| 44C     | TWEEN 20 (SURFACTANT) | .00 WA   | .250 %      | 2LF       |                              |      |      |      |      |
| 45A     | SC 0051               | 3.00 E   | .500 LB/AC  | 2LF       | 0                            | 80   | 48   | 100  | 100  |
| 45B     | ATRAZINE              | 4.00 L   | 1.000 LB/AC | 2LF       |                              |      |      |      |      |
| 45C     | TWEEN 20 (SURFACTANT) | .00 WA   | .250 %      | 2LF       |                              |      |      |      |      |
| 46A     | SC 0051               | 3.00 E   | .750 LB/AC  | 2LF       | 0                            | 88   | 55   | 100  | 100  |
| 46B     | ATRAZINE              | 4.00 L   | 1.000 LB/AC | 2LF       |                              |      |      |      |      |
| 46C     | TWEEN 20 (SURFACTANT) | .00 WA   | .250 %      | 2LF       |                              |      |      |      |      |
| 47      | SAN 825H              | 4.67 FL  | 2.330 LB/AC | EP        | 0                            | 62   | 38   | 100  | 100  |
| 48      | SAN DCA1              | 4.67 FL  | 2.330 LB/AC | EP        | 0                            | 65   | 22   | 100  | 100  |
| 49      | CHECK (CULTIVATED)    | .00 CK   | .000        |           | 0                            | 100  | 100  | 100  | 100  |
|         |                       |          | LSD (05):   |           | 0                            | 19   | 18   | 9    | 9    |

LOCATION: SPINDLETOP FARM  
 FERTILIZATION (LB/AC): 250 N, 60 P, 60 K  
 DATE PLANTED: MAY 6  
 VARIETY: PIONEER 3320

SOIL TYPE: MAURY SILT LOAM  
 PH: 6.4 O.M.: 4.4%  
 DATE TREATED: PRE MAY 6  
 SPK MAY 13  
 EP, 2LF MAY 18  
 3LF MAY 20  
 4LF MAY 22  
 MP, 5LF MAY 26

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7004 NO-TILL CORN STALKLAND

| TRT NO. | HERBICIDE TREATMENT  | FORMULA | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |
|---------|----------------------|---------|-------------|-----------|----------------------------------|------|------|------|------|------|------|----------------------------------|------|------|------|------|
|         |                      |         |             |           | GRAS                             | BRLE | CRIN | LACG | COLQ | CLMW | PRSI | CRIN                             | LACG | COLQ | CLMW | PRSI |
| 1A      | ALACHLOR             | 4.00 MT | 3.000 LB/AC | PRE       | 55                               | 88   | 0    | 60   | 100  | 88   | 98   | 0                                | 48   | 100  | 88   | 98   |
| 1B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 1C      | PARAQUAT             | 1.50 S  | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 1D      | X-77 (SURFACTANT)    | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 2A      | ALACHLOR             | 4.00 E  | 3.000 LB/AC | PRE       | 85                               | 88   | 0    | 85   | 100  | 92   | 95   | 0                                | 68   | 100  | 92   | 95   |
| 2B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 2C      | GLYPHOSATE           | 4.00 E  | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 3A      | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 55                               | 85   | 0    | 55   | 100  | 92   | 88   | 0                                | 50   | 100  | 88   | 88   |
| 3B      | PARAQUAT             | 1.50 S  | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 3C      | X-77 (SURFACTANT)    | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 3D      | DICAMBA              | 4.00 S  | .500 LB/AC  | EP        |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 4A      | ALACHLOR + GLYPHOSAT | 4.00 E  | 4.000 LB/AC | PRE       | 75                               | 85   | 0    | 75   | 98   | 92   | 88   | 0                                | 60   | 98   | 92   | 90   |
| 4B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 5A      | METOLACHLOR          | 8.00 E  | 2.000 LB/AC | PRE       | 78                               | 82   | 0    | 78   | 98   | 88   | 95   | 0                                | 68   | 98   | 85   | 95   |
| 5B      | ATRAZINE             | 4.00 L  | 2.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 5C      | PARAQUAT             | 1.50 S  | .280 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 5D      | X-77 (SURFACTANT)    | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 6A      | METOLACHLOR          | 8.00 E  | 2.250 LB/AC | PRE       | 78                               | 78   | 0    | 80   | 100  | 78   | 98   | 0                                | 60   | 100  | 75   | 98   |
| 6B      | HOE 39866            | 1.67 AS | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 6C      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 7A      | METOLACHLOR          | 8.00 E  | 2.000 LB/AC | PRE       | 68                               | 90   | 0    | 68   | 100  | 95   | 100  | 0                                | 60   | 100  | 95   | 100  |
| 7B      | PARAQUAT + ATRAZINE  | 2.40 L  | 1.800 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 8A      | METALACHLOR/HOE39866 | 4.00 E  | 3.250 LB/AC | PRE       | 75                               | 85   | 0    | 75   | 98   | 90   | 90   | 0                                | 65   | 98   | 90   | 90   |
| 8B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 9A      | METALACHLOR/HOE39866 | 4.00 E  | 3.250 LB/AC | PRE       | 70                               | 82   | 0    | 78   | 98   | 82   | 98   | 0                                | 58   | 98   | 82   | 98   |
| 9B      | HOE 39866            | 1.67 AS | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 9C      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 10A     | METALACHLOR/HOE39866 | 4.00 E  | 3.250 LB/AC | PRE       | 75                               | 85   | 0    | 75   | 100  | 85   | 100  | 0                                | 72   | 100  | 85   | 100  |
| 10B     | HOE 39866            | 1.67 AS | .500 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 10C     | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7004 NO-TILL CORN STALKLAND

| TRT NO. | HERBICIDE TREATMENT | FORMULA | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |
|---------|---------------------|---------|-------------|-----------|----------------------------------|------|------|------|------|------|------|----------------------------------|------|------|------|------|
|         |                     |         |             |           | GRAS                             | BRLE | CRIN | LACG | COLQ | CLMW | PRSI | CRIN                             | LACG | COLQ | CLMW | PRSI |
| 11A     | ATRAZINE            | 4.00 L  | 1.500 LB/AC | PRE       | 28                               | 82   | 0    | 28   | 98   | 98   | 90   | 0                                | 35   | 98   | 98   | 90   |
| 11B     | PARAQUAT            | 1.50 S  | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 11C     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 12A     | ATRAZINE            | 4.00 L  | 1.500 LB/AC | PRE       | 62                               | 92   | 0    | 62   | 100  | 92   | 100  | 0                                | 50   | 100  | 90   | 100  |
| 12B     | CYANAZINE           | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 12C     | PARAQUAT            | 1.50 S  | .280 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 12D     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 13A     | ATRAZINE            | 4.00 L  | 1.500 LB/AC | PRE       | 55                               | 92   | 0    | 55   | 100  | 95   | 95   | 0                                | 42   | 100  | 95   | 95   |
| 13B     | SIMAZINE            | 4.00 L  | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 13C     | PARAQUAT            | 1.50 S  | .280 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 13D     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 14A     | ATRAZINE            | 4.00 L  | 1.000 LB/AC | PRE       | 45                               | 85   | 0    | 58   | 100  | 90   | 95   | 0                                | 45   | 100  | 90   | 98   |
| 14B     | PARAQUAT + SIMAZINE | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 15A     | CYANAZINE           | 4.00 L  | 2.000 LB/AC | EPP       | 62                               | 75   | 0    | 68   | 100  | 80   | 100  | 0                                | 60   | 100  | 78   | 100  |
| 15B     | 2,4-D AMINE         | 4.00 E  | 1.000 LB/AC | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 15C     | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 16A     | CYANAZINE           | 4.00 L  | 2.000 LB/AC | PRE       | 40                               | 95   | 0    | 40   | 100  | 98   | 100  | 0                                | 35   | 100  | 98   | 100  |
| 16B     | 2,4-D AMINE         | 4.00 E  | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 16C     | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 17A     | CYANAZINE           | 4.00 L  | 2.000 LB/AC | EPP       | 88                               | 88   | 0    | 88   | 100  | 88   | 100  | 0                                | 85   | 100  | 88   | 100  |
| 17B     | 2,4-D AMINE         | 4.00 E  | 1.000 LB/AC | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 17C     | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 17D     | TRIDIPHANE          | 4.00 E  | .500 LB/AC  | EP        |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 17E     | ATRAZINE            | 4.00 L  | 1.500 LB/AC | EP        |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 17F     | OIL CONCENTRATE     | .00 AD  | .500 QT/AC  | EP        |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 18A     | CYANAZINE           | 4.00 L  | 2.000 LB/AC | PRE       | 62                               | 95   | 0    | 62   | 100  | 95   | 100  | 0                                | 55   | 100  | 95   | 100  |
| 18B     | 2,4-D AMINE         | 4.00 E  | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 18C     | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 18D     | TRIDIPHANE          | 4.00 E  | .500 LB/AC  | EP        |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 18E     | ATRAZINE            | 4.00 L  | 1.500 LB/AC | EP        |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 18F     | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 19A     | CYANAZINE           | 4.00 L  | 2.000 LB/AC | EPP       | 90                               | 92   | 0    | 90   | 100  | 92   | 100  | 0                                | 85   | 100  | 92   | 100  |
| 19B     | 2,4-D AMINE         | 4.00 E  | 1.000 LB/AC | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 19C     | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 19D     | METOLACHLOR         | 8.00 E  | 2.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 19E     | ATRAZINE            | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7004 NO-TILL CORN STALKLAND

| TRT NO. | HERBICIDE TREATMENT  | FORMULA | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |
|---------|----------------------|---------|-------------|-----------|----------------------------------|------|------|------|------|------|------|----------------------------------|------|------|------|------|
|         |                      |         |             |           | GRAS                             | BRLE | CRIN | LACG | COLQ | CLMW | PRSI | CRIN                             | LACG | COLQ | CLMW | PRSI |
| 20A     | CYANAZINE            | 4.00 L  | 2.000 LB/AC | EPP       | 85                               | 90   | 0    | 85   | 100  | 90   | 100  | 0                                | 78   | 100  | 90   | 100  |
| 20B     | 2,4-D AMINE          | 4.00 E  | 1.000 LB/AC | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 20C     | OIL CONCENTRATE      | .00 AD  | 1.000 QT/AC | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 20D     | ATRAZINE             | 4.00 L  | 2.000 LB/AC | EP        |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 20E     | OIL CONCENTRATE      | .00 AD  | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 21      | CYANAZINE + ATRAZINE | 4.00 L  | 4.000 LB/AC | PRE       | 22                               | 90   | 0    | 22   | 100  | 92   | 100  | 0                                | 22   | 100  | 92   | 100  |
| 22      | METALACHLOR + ATRAZI | 6.00 L  | 4.500 LB/AC | PRE       | 32                               | 78   | 0    | 32   | 100  | 85   | 88   | 0                                | 30   | 100  | 82   | 90   |
| 23      | PARAQUAT + ATRAZINE  | 2.40 L  | 1.800 LB/AC | PRE       | 22                               | 85   | 0    | 45   | 100  | 88   | 95   | 0                                | 38   | 100  | 88   | 95   |
| 24      | PARAQUAT + ATRAZINE  | 2.40 L  | 2.400 LB/AC | PRE       | 30                               | 88   | 0    | 45   | 100  | 92   | 100  | 0                                | 35   | 100  | 92   | 100  |
| 25A     | EPTC                 | 3.00 S  | 4.000 LB/AC | PRE       | 22                               | 80   | 0    | 22   | 92   | 90   | 98   | 0                                | 22   | 92   | 90   | 98   |
| 25B     | PARAQUAT             | 1.50 S  | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 25C     | X-77 (SURFACTANT)    | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 26A     | EPTC                 | 3.00 S  | 6.000 LB/AC | PRE       | 35                               | 70   | 0    | 35   | 75   | 90   | 88   | 0                                | 32   | 68   | 90   | 88   |
| 26B     | PARAQUAT             | 1.50 S  | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 26C     | X-77 (SURFACTANT)    | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 27A     | EPTC                 | 3.00 S  | 4.000 LB/AC | PRE       | 55                               | 82   | 0    | 62   | 100  | 85   | 98   | 0                                | 55   | 100  | 85   | 98   |
| 27B     | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 27C     | PARAQUAT             | 1.50 S  | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 27D     | X-77 (SURFACTANT)    | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 28A     | EPTC                 | 3.00 S  | 6.000 LB/AC | PRE       | 62                               | 85   | 0    | 62   | 100  | 85   | 100  | 0                                | 60   | 100  | 85   | 100  |
| 28B     | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 28C     | PARAQUAT             | 1.50 S  | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 28D     | X-77 (SURFACTANT)    | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 29A     | RS-012               | 3.75 EC | .940 LB/AC  | PRE       | 35                               | 82   | 0    | 35   | 100  | 90   | 98   | 0                                | 30   | 100  | 90   | 98   |
| 29B     | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 29C     | PARAQUAT             | 1.50 S  | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 29D     | ACTIVE PLUS          | .00 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 30A     | RS-012               | 3.75 EC | .940 LB/AC  | PRE       | 60                               | 88   | 0    | 60   | 100  | 90   | 98   | 0                                | 52   | 100  | 88   | 98   |
| 30B     | CYANAZINE            | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 30C     | PARAQUAT             | 1.50 S  | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 30D     | ACTIVE PLUS          | .00 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
|         |                      |         | LSD (05) :  |           | 21                               | NS   | 0    | 26   | 8    | 12   | 8    | 0                                | 22   | 11   | 13   | 8    |



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7004 NO-TILL CORN STALKLAND

LOCATION: SPINDLETOP FARM

FERTILIZATION (LB/AC): 250 N,

60 P,

60 K

SOIL TYPE: MAURY SILT LOAM

PH: 6.1

O.M.: 4.6%

DATE PLANTED: MAY 7

DATE TREATED: EPP APRIL 27

VARIETY: PIONEER 3320

PRE MAY 7

EP MAY 26

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7005 NO-TILL CORN STALKLAND II

| TRT NO. | HERBICIDE TREATMENT  | FORMULA | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|----------------------|---------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                      |         |             |           | GRAS                            | BRLE | CRIN | LACG | COLQ | CLMW | PRSI | VELE |
| 1A      | ALACHLOR             | 4.00 MT | 3.000 LB/AC | PRE       | 80                              | 85   | 0    | 80   | 88   | 85   | 100  | 98   |
| 1B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 1C      | PARAQUAT             | 1.50 S  | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 1D      | X-77 (SURFACTANT)    | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 2A      | ALACHLOR             | 4.00 E  | 3.000 LB/AC | PRE       | 85                              | 85   | 0    | 85   | 100  | 92   | 100  | 92   |
| 2B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 2C      | GLYPHOSATE           | 4.00 E  | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 3A      | EPTC + R25788 (IMP)  | 6.70 E  | 4.000 LB/AC | PRE       | 60                              | 82   | 0    | 62   | 100  | 92   | 100  | 90   |
| 3B      | ATRAZINE (IMP)       | 4.00 L  | 1.500 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 3C      | PARAQUAT             | 1.50 S  | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 3D      | X-77 (SURFACTANT)    | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 4A      | EPTC + R25788 (IMP)  | 6.70 E  | 6.000 LB/AC | PRE       | 55                              | 70   | 0    | 55   | 88   | 82   | 100  | 88   |
| 4B      | ATRAZINE (IMP)       | 4.00 L  | 1.500 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 4C      | PARAQUAT             | 1.50 S  | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 4D      | X-77 (SURFACTANT)    | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 5A      | EPTC                 | 3.00 S  | 4.000 LB/AC | PRE       | 65                              | 80   | 0    | 65   | 100  | 80   | 100  | 100  |
| 5B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 5C      | PARAQUAT             | 1.50 S  | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 5D      | X-77 (SURFACTANT)    | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 6A      | EPTC                 | 3.00 S  | 6.000 LB/AC | PRE       | 70                              | 78   | 0    | 70   | 98   | 78   | 100  | 98   |
| 6B      | ATRAZINE             | 4.00 L  | 1.500 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 6C      | PARAQUAT             | 1.50 S  | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 6D      | X-77 (SURFACTANT)    | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 7A      | BUTYLATE + R25788 (I | 6.70 E  | 4.000 LB/AC | PRE       | 55                              | 62   | 0    | 40   | 80   | 75   | 100  | 90   |
| 7B      | ATRAZINE (IMP)       | 4.00 L  | 1.500 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 7C      | PARAQUAT             | 1.50 S  | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 7D      | X-77 (SURFACTANT)    | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 8A      | BUTYLATE + R25788 (I | 6.70 E  | 6.000 LB/AC | PRE       | 45                              | 68   | 0    | 45   | 70   | 88   | 100  | 95   |
| 8B      | ATRAZINE (IMP)       | 4.00 L  | 1.500 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 8C      | PARAQUAT             | 1.50 S  | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 8D      | X-77 (SURFACTANT)    | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
|         |                      |         | LSD (05) :  |           | 24                              | NS   | 0    | 28   | NS   | 12   | 0    | 12   |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7005 NO-TILL CORN STALKLAND II

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM  
FERTILIZATION (LB/AC): 250 N, 60 P, 60 K PH: 6.1 O.M.: 4.7%  
DATE PLANTED: MAY 7 DATE TREATED: PRE MAY 8  
VARIETY: PIONEER 3320  
TREATMENTS 3,4,7,8 - EADICANE & SUTAN + ARE IMPREGNATED ON DRY FERTILIZ

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7005 NO-TILL CORN STALKLAND II

| TRT NO.    | HERBICIDE TREATMENT   | FORMULA | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |
|------------|-----------------------|---------|-------------|-----------|----------------------------------|------|------|------|------|------|
|            |                       |         |             |           | CRIN                             | LACG | COLQ | CLMW | PRSI | VELE |
| 1A         | ALACHLOR              | 4.00 MT | 3.000 LB/AC | PRE       | 0                                | 70   | 88   | 85   | 100  | 98   |
| 1B         | ATRAZINE              | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |
| 1C         | PARAQUAT              | 1.50 S  | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 1D         | X-77 (SURFACTANT)     | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |
| 2A         | ALACHLOR              | 4.00 E  | 3.000 LB/AC | PRE       | 0                                | 72   | 100  | 92   | 100  | 92   |
| 2B         | ATRAZINE              | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |
| 2C         | GLYPHOSATE            | 4.00 E  | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |
| 3A         | EPTC + R25788 (IMP)   | 6.70 E  | 4.000 LB/AC | PRE       | 0                                | 62   | 100  | 92   | 95   | 95   |
| 3B         | ATRAZINE (IMP)        | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |
| 3C         | PARAQUAT              | 1.50 S  | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 3D         | X-77 (SURFACTANT)     | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |
| 4A         | EPTC + R25788 (IMP)   | 6.70 E  | 6.000 LB/AC | PRE       | 0                                | 52   | 88   | 82   | 92   | 95   |
| 4B         | ATRAZINE (IMP)        | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |
| 4C         | PARAQUAT              | 1.50 S  | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 4D         | X-77 (SURFACTANT)     | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |
| 5A         | EPTC                  | 3.00 S  | 4.000 LB/AC | PRE       | 0                                | 50   | 100  | 80   | 100  | 100  |
| 5B         | ATRAZINE              | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |
| 5C         | PARAQUAT              | 1.50 S  | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 5D         | X-77 (SURFACTANT)     | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |
| 6A         | EPTC                  | 3.00 S  | 6.000 LB/AC | PRE       | 0                                | 60   | 98   | 78   | 100  | 98   |
| 6B         | ATRAZINE              | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |
| 6C         | PARAQUAT              | 1.50 S  | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 6D         | X-77 (SURFACTANT)     | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |
| 7A         | BUTYLATE + R25788 (I) | 6.70 E  | 4.000 LB/AC | PRE       | 0                                | 35   | 80   | 75   | 100  | 90   |
| 7B         | ATRAZINE (IMP)        | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |
| 7C         | PARAQUAT              | 1.50 S  | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 7D         | X-77 (SURFACTANT)     | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |
| 8A         | BUTYLATE + R25788 (I) | 6.70 E  | 6.000 LB/AC | PRE       | 0                                | 40   | 70   | 88   | 100  | 95   |
| 8B         | ATRAZINE (IMP)        | 4.00 L  | 1.500 LB/AC | PRE       |                                  |      |      |      |      |      |
| 8C         | PARAQUAT              | 1.50 S  | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 8D         | X-77 (SURFACTANT)     | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |
| LSD (05) : |                       |         |             |           | 0                                | NS   | NS   | 12   | NS   | 8    |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7005 NO-TILL CORN STALKLAND II

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM  
FERTILIZATION (LB/AC): 250 N, 60 P, 60 K PH: 6.1 O.M.: 4.7%  
DATE PLANTED: MAY 7 DATE TREATED: PRE MAY 8  
VARIETY: PIONEER 3320  
TREATMENTS 3,4,7,8 - EADICANE & SUTAN + ARE IMPREGNATED ON DRY FERTILIZ

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7009 NO-TILL CORN IN SOYBEAN STUBBLE

| TRT NO. | HERBICIDE TREATMENT  | FORMULA   | RATE         | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|----------------------|-----------|--------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                      |           |              |           | GRAS                            | BRLE | CRIN | GIFT | HONE | ILMG | CORW | PRLE |
| 1A      | ROUNDUP              | 4.00 E    | 1.000 LB/AC  | PRE       | 68                              | 72   | 0    | 68   | 88   | 85   | 98   | 98   |
| 1B      | X-77                 | .50 WA    | .500 %       | PRE       |                                 |      |      |      |      |      |      |      |
| 2       | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 98                              | 92   | 0    | 98   | 92   | 98   | 100  | 100  |
| 3A      | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 90                              | 90   | 0    | 90   | 92   | 98   | 100  | 100  |
| 3B      | AMMONIUM SULFATE     | 99.99 WA  | 2.000 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 4       | KY 2000              | 80.00 WSG | 2.560 LB/AC  | PRE       | 100                             | 95   | 0    | 100  | 98   | 98   | 100  | 100  |
| 5A      | KY 2000              | 80.00 WSG | 2.560 LB/AC  | PRE       | 98                              | 92   | 0    | 98   | 92   | 100  | 100  | 100  |
| 5B      | AMMONIUM SULFATE     | 99.99 WA  | 2.000 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 6A      | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 92                              | 88   | 0    | 92   | 85   | 100  | 100  | 100  |
| 6B      | LASSO                | 4.00 MT   | 3.000 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 7A      | ROUNDUP              | 4.00 E    | 1.000 LB/AC  | PRE       | 95                              | 88   | 0    | 95   | 90   | 98   | 100  | 100  |
| 7B      | LASSO MT/ATRAZINE PK | 4.00 L    | 4.800 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 8A      | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 98                              | 92   | 0    | 98   | 92   | 100  | 100  | 100  |
| 8B      | DUAL                 | 8.00 E    | 2.500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 9A      | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 92                              | 95   | 0    | 92   | 100  | 98   | 100  | 98   |
| 9B      | DUAL                 | 8.00 E    | 2.500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 9C      | AMMONIUM SULFATE     | 99.99 WA  | 2.000 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 10A     | KY 2000              | 80.00 WSG | 2.560 LB/AC  | PRE       | 98                              | 95   | 0    | 98   | 92   | 98   | 100  | 100  |
| 10B     | DUAL                 | 8.00 E    | 2.500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 11A     | KY 2000              | 80.00 WSG | 2.560 LB/AC  | PRE       | 100                             | 88   | 0    | 100  | 90   | 98   | 100  | 100  |
| 11B     | DUAL                 | 8.00 E    | 2.500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 11C     | AMMONIUM SULFATE     | 99.99 WA  | 2.000 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 12A     | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 98                              | 95   | 0    | 98   | 95   | 100  | 100  | 100  |
| 12B     | BLADEX               | 4.00 L    | 1.500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 13A     | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 98                              | 95   | 0    | 98   | 95   | 100  | 100  | 100  |
| 13B     | PRINCEP              | 4.00 L    | 1.000 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 14A     | ROUNDUP              | 4.00 E    | 1.000 LB/AC  | PRE       | 85                              | 78   | 0    | 85   | 92   | 90   | 95   | 100  |
| 14B     | X-77                 | .50 WA    | .500 %       | PRE       |                                 |      |      |      |      |      |      |      |
| 14C     | LIQUID FERTILIZER    | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7009 NO-TILL CORN IN SOYBEAN STUBBLE

| TRT NO. | HERBICIDE TREATMENT  | FORMULA   | RATE         | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|----------------------|-----------|--------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                      |           |              |           | GRAS                            | BRLE | CRIN | GIFT | HONE | ILMG | CORW | PRLE |
| 15A     | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 95                              | 92   | 0    | 95   | 92   | 100  | 100  | 100  |
| 15B     | LIQUID FERTILIZER    | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 16A     | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 98                              | 88   | 0    | 98   | 90   | 100  | 100  | 100  |
| 16B     | AMMONIUM SULFATE     | 99.99 WA  | 2.000 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 16C     | LIQUID FERTILIZER    | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 17A     | KY 2000              | 80.00 WSG | 2.560 LB/AC  | PRE       | 98                              | 90   | 0    | 98   | 90   | 100  | 100  | 100  |
| 17B     | LIQUID FERTILIZER    | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 18A     | KY 2000              | 80.00 WSG | 2.560 LB/AC  | PRE       | 98                              | 90   | 0    | 98   | 92   | 100  | 100  | 100  |
| 18B     | AMMONIUM SULFATE     | 99.99 WA  | 2.000 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 18C     | LIQUID FERTILIZER    | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 19A     | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 100                             | 88   | 0    | 100  | 92   | 100  | 100  | 100  |
| 19B     | LASSO                | 4.00 MT   | 3.000 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 19C     | LIQUID FERTILIZER    | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 20A     | ROUNDUP              | 4.00 E    | 1.000 LB/AC  | PRE       | 98                              | 92   | 0    | 98   | 95   | 100  | 100  | 100  |
| 20B     | LASSO MT/ATRAZINE PK | 4.00 L    | 4.800 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 20C     | LIQUID FERTILIZER    | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 21A     | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 95                              | 98   | 0    | 95   | 100  | 100  | 100  | 98   |
| 21B     | DUAL                 | 8.00 E    | 2.500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 21C     | LIQUID FERTILIZER    | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 22A     | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 98                              | 95   | 0    | 98   | 95   | 100  | 100  | 100  |
| 22B     | DUAL                 | 8.00 E    | 2.500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 22C     | AMMONIUM SULFATE     | 99.99 WA  | 2.000 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 22D     | LIQUID FERTILIZER    | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 23A     | KY 2000              | 80.00 WSG | 2.560 LB/AC  | PRE       | 100                             | 95   | 0    | 100  | 95   | 100  | 100  | 100  |
| 23B     | DUAL                 | 8.00 E    | 2.500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 23C     | LIQUID FERTILIZER    | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 24A     | KY 2000              | 80.00 WSG | 2.560 LB/AC  | PRE       | 100                             | 85   | 0    | 100  | 85   | 98   | 100  | 100  |
| 24B     | DUAL                 | 8.00 E    | 2.500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 24C     | AMMONIUM SULFATE     | 99.99 WA  | 2.000 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 24D     | LIQUID FERTILIZER    | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7009 NO-TILL CORN IN SOYBEAN STUBBLE

| TRT NO. | HERBICIDE TREATMENT | FORMULA   | RATE         | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|---------------------|-----------|--------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                     |           |              |           | GRAS                            | BRLE | CRIN | GIFT | HONE | ILMG | CORW | PRLE |
| 25A     | KY 1000             | 78.74 WDG | 2.750 LB/AC  | PRE       | 95                              | 98   | 0    | 95   | 98   | 100  | 100  | 100  |
| 25B     | PRINCEP             | 4.00 L    | 1.000 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 25C     | LIQUID FERTILIZER   | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 26      | LIQUID FERTILIZER   | .00 AD    | 80.000 QT/AC | PRE       | 50                              | 45   | 0    | 50   | 55   | 58   | 52   | 52   |
| 27A     | BICEP               | 6.00 L    | 3.200 LB/AC  | PRE       | 95                              | 92   | 0    | 95   | 92   | 95   | 100  | 100  |
| 27B     | GRAMOXONE           | 1.50 S    | .250 LB/AC   | PRE       |                                 |      |      |      |      |      |      |      |
| 27C     | X-77                | .50 WA    | .500 %       | PRE       |                                 |      |      |      |      |      |      |      |
| 27D     | LIQUID FERTILIZER   | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 28A     | BLADEX              | 4.00 L    | 2.500 LB/AC  | PRE       | 98                              | 95   | 0    | 98   | 95   | 100  | 100  | 100  |
| 28B     | AATREX              | 4.00 L    | 1.000 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 28C     | ESTERON 99          | 4.00 E    | .500 LB/AC   | PRE       |                                 |      |      |      |      |      |      |      |
| 28D     | X-77                | .50 WA    | .500 %       | PRE       |                                 |      |      |      |      |      |      |      |
| 28E     | LIQUID FERTILIZER   | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 29A     | BLADEX              | 4.00 L    | 2.500 LB/AC  | PRE       | 100                             | 98   | 0    | 100  | 100  | 98   | 100  | 98   |
| 29B     | AATREX              | 4.00 L    | 1.000 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 29C     | GRAMOXONE           | 1.50 S    | .250 LB/AC   | PRE       |                                 |      |      |      |      |      |      |      |
| 29D     | X-77                | .50 WA    | .500 %       | PRE       |                                 |      |      |      |      |      |      |      |
| 29E     | DUAL                | 8.00 E    | 2.000 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 29F     | LIQUID FERTILIZER   | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 30A     | EXTRAZINE           | 4.00 L    | 4.000 LB/AC  | PRE       | 95                              | 95   | 0    | 98   | 95   | 100  | 100  | 100  |
| 30B     | LIQUID FERTILIZER   | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 31A     | GRAMOXONE           | 1.50 S    | .250 LB/AC   | PRE       | 68                              | 78   | 0    | 68   | 95   | 88   | 98   | 100  |
| 31B     | X-77                | .50 WA    | .500 %       | PRE       |                                 |      |      |      |      |      |      |      |
| 31C     | LIQUID FERTILIZER   | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 32A     | GRAMOXONE           | 1.50 S    | .250 LB/AC   | PRE       | 85                              | 92   | 0    | 85   | 92   | 100  | 100  | 100  |
| 32B     | AATREX              | 4.00 L    | 1.500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 32C     | X-77                | .50 WA    | .500 %       | PRE       |                                 |      |      |      |      |      |      |      |
| 32D     | LIQUID FERTILIZER   | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 33A     | GRAMOXONE           | 1.50 S    | .250 LB/AC   | PRE       | 98                              | 95   | 0    | 98   | 95   | 100  | 100  | 100  |
| 33B     | AATREX              | 4.00 L    | 1.500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 33C     | DUAL                | 8.00 E    | 2.500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 33D     | X-77                | .50 WA    | .500 %       | PRE       |                                 |      |      |      |      |      |      |      |
| 33E     | LIQUID FERTILIZER   | .00 AD    | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7009 NO-TILL CORN IN SOYBEAN STUBBLE

| TRT NO.    | HERBICIDE TREATMENT | FORMULA | RATE         | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|------------|---------------------|---------|--------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|            |                     |         |              |           | GRAS                            | BRLE | CRIN | GIFT | HONE | ILMG | CORW | PRLE |
| 34A        | GRAMOXONE           | 1.50 S  | .250 LB/AC   | PRE       | 92                              | 90   | 0    | 92   | 95   | 95   | 100  | 98   |
| 34B        | PRINCEP             | 4.00 L  | 1.500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 34C        | X-77                | .50 WA  | .500 %       | PRE       |                                 |      |      |      |      |      |      |      |
| 34D        | LIQUID FERTILIZER   | .00 AD  | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 35A        | GRAMOXONE           | 1.50 S  | .250 LB/AC   | PRE       | 98                              | 92   | 0    | 98   | 95   | 98   | 100  | 100  |
| 35B        | AATREX              | 4.00 L  | 1.500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 35C        | PRINCEP             | 4.00 L  | 1.000 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 35D        | DUAL                | 8.00 E  | 2.000 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 35E        | X-77                | .50 WA  | .500 %       | PRE       |                                 |      |      |      |      |      |      |      |
| 35F        | LIQUID FERTILIZER   | .00 AD  | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 36A        | BLADEX              | 4.00 L  | 2.500 LB/AC  | EPP       | 95                              | 90   | 0    | 95   | 90   | 100  | 100  | 100  |
| 36B        | AATREX              | 4.00 L  | 1.500 LB/AC  | EPP       |                                 |      |      |      |      |      |      |      |
| 36C        | LIQUID FERTILIZER   | .00 AD  | 80.000 QT/AC | EPP       |                                 |      |      |      |      |      |      |      |
| 37A        | EXTRAZINE           | 4.00 L  | 4.000 LB/AC  | EPP       | 98                              | 92   | 0    | 98   | 92   | 98   | 100  | 100  |
| 37B        | LIQUID FERTILIZER   | .00 AD  | 80.000 QT/AC | EPP       |                                 |      |      |      |      |      |      |      |
| 38A        | BICEP               | 6.00 L  | 4.000 LB/AC  | EPP       | 98                              | 95   | 0    | 98   | 95   | 98   | 100  | 100  |
| 38B        | LIQUID FERTILIZER   | .00 AD  | 80.000 QT/AC | EPP       |                                 |      |      |      |      |      |      |      |
| 39A        | BICEP               | 6.00 L  | 2.100 LB/AC  | EPP       | 98                              | 98   | 0    | 98   | 98   | 100  | 100  | 100  |
| 39B        | BICEP               | 6.00 L  | 1.100 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 39C        | LIQUID FERTILIZER   | .00 AD  | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 40A        | LASSO/ATRAZINE PKG. | 4.00 L  | 3.000 LB/AC  | EPP       | 98                              | 92   | 0    | 98   | 92   | 100  | 100  | 100  |
| 40B        | LASSO/ATRAZINE PKG. | 4.00 L  | 2.000 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 40C        | LIQUID FERTILIZER   | .00 AD  | 80.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| LSD (05) : |                     |         |              |           | 12                              | 12   | 0    | 11   | 13   | 12   | 9    | 9    |

LOCATION: SPINDLETOP FARM  
 FERTILIZATION (LB/AC): 250 N, 60 P, 60 K  
 DATE PLANTED: MAY 7  
 VARIETY: PIONEER 3320  
 ALL NITROGEN IS APPLIED AT 40 GPA

SOIL TYPE: MAURY SILT LOAM  
 PH: 6.2 O.M.: 3.4%  
 DATE TREATED: EPP APRIL 24  
 PRE MAY 7

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7009 NO-TILL CORN IN SOYBEAN STUBBLE

| TRT NO. | HERBICIDE TREATMENT  | FORMULA   | RATE         | APPL METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |
|---------|----------------------|-----------|--------------|-----------|----------------------------------|------|------|------|------|------|
|         |                      |           |              |           | CRIN                             | GIFT | HONE | ILMG | CORW | PRLE |
| 1A      | GLYPHOSATE           | 4.00 E    | 1.000 LB/AC  | PRE       | 0                                | 60   | 82   | 80   | 92   | 100  |
| 1B      | X-77 (SURFACTANT)    | .50 WA    | .500 %       | PRE       |                                  |      |      |      |      |      |
| 2       | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 0                                | 92   | 88   | 95   | 100  | 100  |
| 3A      | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 0                                | 88   | 88   | 95   | 100  | 100  |
| 3B      | AMMONIUM SULFATE     | 99.99 WA  | 2.000 %      | PRE       |                                  |      |      |      |      |      |
| 4       | KY 2000              | 80.00 WSG | 2.560 LB/AC  | PRE       | 0                                | 95   | 92   | 95   | 100  | 100  |
| 5A      | KY 2000              | 80.00 WSG | 2.560 LB/AC  | PRE       | 0                                | 95   | 90   | 95   | 100  | 100  |
| 5B      | AMMONIUM SULFATE     | 99.99 WA  | 2.000 %      | PRE       |                                  |      |      |      |      |      |
| 6A      | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 0                                | 90   | 80   | 100  | 100  | 100  |
| 6B      | ALACHLOR             | 4.00 MT   | 3.000 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 7A      | GLYPHOSATE           | 4.00 E    | 1.000 LB/AC  | PRE       | 0                                | 92   | 82   | 95   | 100  | 100  |
| 7B      | ALACHLOR MT/ATRAZINE | 4.00 L    | 4.800 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 8A      | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 0                                | 92   | 82   | 95   | 100  | 100  |
| 8B      | METOLACHLOR          | 8.00 E    | 2.500 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 9A      | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 0                                | 90   | 95   | 95   | 100  | 95   |
| 9B      | METOLACHLOR          | 8.00 E    | 2.500 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 9C      | AMMONIUM SULFATE     | 99.99 WA  | 2.000 %      | PRE       |                                  |      |      |      |      |      |
| 10A     | KY 2000              | 80.00 WSG | 2.560 LB/AC  | PRE       | 0                                | 90   | 90   | 95   | 100  | 100  |
| 10B     | METOLACHLOR          | 8.00 E    | 2.500 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 11A     | KY 2000              | 80.00 WSG | 2.560 LB/AC  | PRE       | 0                                | 95   | 88   | 95   | 100  | 100  |
| 11B     | METOLACHLOR          | 8.00 E    | 2.500 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 11C     | AMMONIUM SULFATE     | 99.99 WA  | 2.000 %      | PRE       |                                  |      |      |      |      |      |
| 12A     | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 0                                | 92   | 92   | 100  | 100  | 100  |
| 12B     | CYANAZINE            | 4.00 L    | 1.500 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 13A     | KY 1000              | 78.74 WDG | 2.750 LB/AC  | PRE       | 0                                | 92   | 92   | 95   | 100  | 100  |
| 13B     | SIMAZINE             | 4.00 L    | 1.000 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 14A     | GLYPHOSATE           | 4.00 E    | 1.000 LB/AC  | PRE       | 0                                | 68   | 92   | 90   | 90   | 100  |
| 14B     | X-77 (SURFACTANT)    | .50 WA    | .500 %       | PRE       |                                  |      |      |      |      |      |
| 14C     | LIQUID FERTILIZER    | .00 AD    | 80.000 QT/AC | PRE       |                                  |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7009 NO-TILL CORN IN SOYBEAN STUBBLE

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA   | RATE         | APPL<br>METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |
|------------|------------------------|-----------|--------------|--------------|----------------------------------|------|------|------|------|------|
|            |                        |           |              |              | CRIN                             | GIFT | HONE | ILMG | CORW | PRLE |
| 15A        | KY 1000                | 78.74 WDG | 2.750 LB/AC  | PRE          | 0                                | 92   | 90   | 95   | 100  | 100  |
| 15B        | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          |                                  |      |      |      |      |      |
| 16A        | KY 1000                | 78.74 WDG | 2.750 LB/AC  | PRE          | 0                                | 90   | 88   | 100  | 100  | 100  |
| 16B        | AMMONIUM SULFATE       | 99.99 WA  | 2.000 %      | PRE          |                                  |      |      |      |      |      |
| 16C        | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          |                                  |      |      |      |      |      |
| 17A        | KY 2000                | 80.00 WSG | 2.560 LB/AC  | PRE          | 0                                | 90   | 90   | 95   | 100  | 100  |
| 17B        | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          |                                  |      |      |      |      |      |
| 18A        | KY 2000                | 80.00 WSG | 2.560 LB/AC  | PRE          | 0                                | 92   | 90   | 100  | 100  | 100  |
| 18B        | AMMONIUM SULFATE       | 99.99 WA  | 2.000 %      | PRE          |                                  |      |      |      |      |      |
| 18C        | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          |                                  |      |      |      |      |      |
| 19A        | KY 1000                | 78.74 WDG | 2.750 LB/AC  | PRE          | 0                                | 92   | 82   | 100  | 100  | 100  |
| 19B        | ALACHLOR               | 4.00 MT   | 3.000 LB/AC  | PRE          |                                  |      |      |      |      |      |
| 19C        | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          |                                  |      |      |      |      |      |
| 20A        | GLYPHOSATE             | 4.00 E    | 1.000 LB/AC  | PRE          | 0                                | 92   | 92   | 95   | 100  | 100  |
| 20B        | ALACHLOR MT/ATRAZINE   | 4.00 L    | 4.800 LB/AC  | PRE          |                                  |      |      |      |      |      |
| 20C        | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          |                                  |      |      |      |      |      |
| 21A        | KY 1000                | 78.74 WDG | 2.750 LB/AC  | PRE          | 0                                | 92   | 95   | 100  | 100  | 100  |
| 21B        | METOLACHLOR            | 8.00 E    | 2.500 LB/AC  | PRE          |                                  |      |      |      |      |      |
| 21C        | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          |                                  |      |      |      |      |      |
| 22A        | KY 1000                | 78.74 WDG | 2.750 LB/AC  | PRE          | 0                                | 100  | 90   | 100  | 100  | 100  |
| 22B        | METOLACHLOR            | 8.00 E    | 2.500 LB/AC  | PRE          |                                  |      |      |      |      |      |
| 22C        | AMMONIUM SULFATE       | 99.99 WA  | 2.000 %      | PRE          |                                  |      |      |      |      |      |
| 22D        | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          |                                  |      |      |      |      |      |
| 23A        | KY 2000                | 80.00 WSG | 2.560 LB/AC  | PRE          | 0                                | 95   | 90   | 100  | 100  | 100  |
| 23B        | METOLACHLOR            | 8.00 E    | 2.500 LB/AC  | PRE          |                                  |      |      |      |      |      |
| 23C        | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          |                                  |      |      |      |      |      |
| 24A        | KY 2000                | 80.00 WSG | 2.560 LB/AC  | PRE          | 0                                | 95   | 82   | 95   | 100  | 100  |
| 24B        | METOLACHLOR            | 8.00 E    | 2.500 LB/AC  | PRE          |                                  |      |      |      |      |      |
| 24C        | AMMONIUM SULFATE       | 99.99 WA  | 2.000 %      | PRE          |                                  |      |      |      |      |      |
| 24D        | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          |                                  |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7009 NO-TILL CORN IN SOYBEAN STUBBLE

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA   | RATE         | APPL<br>METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |
|------------|------------------------|-----------|--------------|--------------|----------------------------------|------|------|------|------|------|
|            |                        |           |              |              | CRIN                             | GIFT | HONE | IIMG | CORW | PRLE |
| 25A        | KY 1000                | 78.74 WDG | 2.750 LB/AC  | PRE          | 0                                | 92   | 92   | 100  | 100  | 100  |
| 25B        | SIMAZINE               | 4.00 L    | 1.000 LB/AC  | PRE          |                                  |      |      |      |      |      |
| 25C        | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          |                                  |      |      |      |      |      |
| 26         | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          | 0                                | 52   | 68   | 70   | 65   | 65   |
| 27A        | METALACHLOR + ATRAZI   | 6.00 L    | 3.200 LB/AC  | PRE          | 0                                | 90   | 90   | 90   | 100  | 100  |
| 27B        | PARAQUAT               | 1.50 S    | .250 LB/AC   | PRE          |                                  |      |      |      |      |      |
| 27C        | X-77 (SURFACTANT)      | .50 WA    | .500 %       | PRE          |                                  |      |      |      |      |      |
| 27D        | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          |                                  |      |      |      |      |      |
| 28A        | CYANAZINE              | 4.00 L    | 2.500 LB/AC  | PRE          | 0                                | 92   | 92   | 92   | 100  | 100  |
| 28B        | ATRAZINE               | 4.00 L    | 1.000 LB/AC  | PRE          |                                  |      |      |      |      |      |
| 28C        | 2,4-D ESTER            | 4.00 E    | .500 LB/AC   | PRE          |                                  |      |      |      |      |      |
| 28D        | X-77 (SURFACTANT)      | .50 WA    | .500 %       | PRE          |                                  |      |      |      |      |      |
| 28E        | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          |                                  |      |      |      |      |      |
| 29A        | CYANAZINE              | 4.00 L    | 2.500 LB/AC  | PRE          | 0                                | 95   | 100  | 92   | 100  | 95   |
| 29B        | ATRAZINE               | 4.00 L    | 1.000 LB/AC  | PRE          |                                  |      |      |      |      |      |
| 29C        | PARAQUAT               | 1.50 S    | .250 LB/AC   | PRE          |                                  |      |      |      |      |      |
| 29D        | X-77 (SURFACTANT)      | .50 WA    | .500 %       | PRE          |                                  |      |      |      |      |      |
| 29E        | METOLACHLOR            | 8.00 E    | 2.000 LB/AC  | PRE          |                                  |      |      |      |      |      |
| 29F        | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          |                                  |      |      |      |      |      |
| 30A        | CYANAZINE + ATRAZINE   | 4.00 L    | 4.000 LB/AC  | PRE          | 0                                | 92   | 90   | 100  | 100  | 100  |
| 30B        | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          |                                  |      |      |      |      |      |
| 31A        | PARAQUAT               | 1.50 S    | .250 LB/AC   | PRE          | 0                                | 60   | 90   | 82   | 100  | 100  |
| 31B        | X-77 (SURFACTANT)      | .50 WA    | .500 %       | PRE          |                                  |      |      |      |      |      |
| 31C        | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          |                                  |      |      |      |      |      |
| 32A        | PARAQUAT               | 1.50 S    | .250 LB/AC   | PRE          | 0                                | 78   | 90   | 100  | 100  | 100  |
| 32B        | ATRAZINE               | 4.00 L    | 1.500 LB/AC  | PRE          |                                  |      |      |      |      |      |
| 32C        | X-77 (SURFACTANT)      | .50 WA    | .500 %       | PRE          |                                  |      |      |      |      |      |
| 32D        | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          |                                  |      |      |      |      |      |
| 33A        | PARAQUAT               | 1.50 S    | .250 LB/AC   | PRE          | 0                                | 92   | 90   | 100  | 100  | 100  |
| 33B        | ATRAZINE               | 4.00 L    | 1.500 LB/AC  | PRE          |                                  |      |      |      |      |      |
| 33C        | METOLACHLOR            | 8.00 E    | 2.500 LB/AC  | PRE          |                                  |      |      |      |      |      |
| 33D        | X-77 (SURFACTANT)      | .50 WA    | .500 %       | PRE          |                                  |      |      |      |      |      |
| 33E        | LIQUID FERTILIZER      | .00 AD    | 80.000 QT/AC | PRE          |                                  |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE C7009 NO-TILL CORN IN SOYBEAN STUBBLE

| TRT NO. | HERBICIDE TREATMENT  | FORMULA | RATE         | APPL METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |
|---------|----------------------|---------|--------------|-----------|----------------------------------|------|------|------|------|------|
|         |                      |         |              |           | CRIN                             | GIFT | HONE | ILMG | CORW | PRLE |
| 34A     | PARAQUAT             | 1.50 S  | .250 LB/AC   | PRE       | 0                                | 88   | 82   | 92   | 100  | 95   |
| 34B     | SIMAZINE             | 4.00 L  | 1.500 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 34C     | X-77 (SURFACTANT)    | .50 WA  | .500 %       | PRE       |                                  |      |      |      |      |      |
| 34D     | LIQUID FERTILIZER    | .00 AD  | 80.000 QT/AC | PRE       |                                  |      |      |      |      |      |
| 35A     | PARAQUAT             | 1.50 S  | .250 LB/AC   | PRE       | 0                                | 95   | 92   | 100  | 100  | 100  |
| 35B     | ATRAZINE             | 4.00 L  | 1.500 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 35C     | SIMAZINE             | 4.00 L  | 1.000 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 35D     | METOLACHLOR          | 8.00 E  | 2.000 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 35E     | X-77 (SURFACTANT)    | .50 WA  | .500 %       | PRE       |                                  |      |      |      |      |      |
| 35F     | LIQUID FERTILIZER    | .00 AD  | 80.000 QT/AC | PRE       |                                  |      |      |      |      |      |
| 36A     | CYANAZINE            | 4.00 L  | 2.500 LB/AC  | EPP       | 0                                | 82   | 90   | 95   | 100  | 100  |
| 36B     | ATRAZINE             | 4.00 L  | 1.500 LB/AC  | EPP       |                                  |      |      |      |      |      |
| 36C     | LIQUID FERTILIZER    | .00 AD  | 80.000 QT/AC | EPP       |                                  |      |      |      |      |      |
| 37A     | CYANAZINE + ATRAZINE | 4.00 L  | 4.000 LB/AC  | EPP       | 0                                | 90   | 82   | 92   | 100  | 100  |
| 37B     | LIQUID FERTILIZER    | .00 AD  | 80.000 QT/AC | EPP       |                                  |      |      |      |      |      |
| 38A     | METALACHLOR + ATRAZI | 6.00 L  | 4.000 LB/AC  | EPP       | 0                                | 92   | 90   | 95   | 100  | 100  |
| 38B     | LIQUID FERTILIZER    | .00 AD  | 80.000 QT/AC | EPP       |                                  |      |      |      |      |      |
| 39A     | METALACHLOR + ATRAZI | 6.00 L  | 2.100 LB/AC  | EPP       | 0                                | 92   | 95   | 100  | 100  | 100  |
| 39B     | METALACHLOR + ATRAZI | 6.00 L  | 1.100 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 39C     | LIQUID FERTILIZER    | .00 AD  | 80.000 QT/AC | PRE       |                                  |      |      |      |      |      |
| 40A     | ALACHLOR/ATRAZINE PK | 4.00 L  | 3.000 LB/AC  | EPP       | 0                                | 95   | 88   | 100  | 100  | 100  |
| 40B     | ALACHLOR/ATRAZINE PK | 4.00 L  | 2.000 LB/AC  | PRE       |                                  |      |      |      |      |      |
| 40C     | LIQUID FERTILIZER    | .00 AD  | 80.000 QT/AC | PRE       |                                  |      |      |      |      |      |

LSD(05): 0 10 12 11 8 7

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

FERTILIZATION (LB/AC): 250 N, 60 P, 60 K

PH: 6.2 O.M.: 3.4%

DATE PLANTED: MAY 7

DATE TREATED: EPP APRIL 24

VARIETY: PIONEER 3320

PRE MAY 7

ALL NITROGEN IS APPLIED AT 40 GPA

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7030 SHATTERCANE CONTROL IN CORN

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA  | RATE        | APPL<br>METH | -----4 WK----- |      |      | -----8 WK----- |      |      |
|------------|------------------------|----------|-------------|--------------|----------------|------|------|----------------|------|------|
|            |                        |          |             |              | CRIN           | SHCA | VELE | CRIN           | SHCA | VELE |
| 1A         | ALACHLOR               | 4.00 MT  | 2.000 LB/AC | PRE          | 0              | 70   | 100  | 0              | 70   | 100  |
| 1B         | ATRAZINE               | 4.00 L   | 2.000 LB/AC | EP           |                |      |      |                |      |      |
| 1C         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                |      |      |                |      |      |
| 2A         | ALACHLOR               | 4.00 MT  | 2.000 LB/AC | PRE          | 15             | 88   | 100  | 0              | 85   | 100  |
| 2B         | TRIDIPHANE             | 4.00 E   | .750 LB/AC  | EP           |                |      |      |                |      |      |
| 2C         | CYANAZINE              | 80.00 WP | 2.000 LB/AC | EP           |                |      |      |                |      |      |
| 3A         | SIMAZINE               | 4.00 L   | 1.000 LB/AC | PRE          | 15             | 72   | 100  | 0              | 68   | 100  |
| 3B         | TRIDIPHANE             | 4.00 E   | .750 LB/AC  | EP           |                |      |      |                |      |      |
| 3C         | ATRAZINE               | 4.00 L   | 2.000 LB/AC | EP           |                |      |      |                |      |      |
| 3D         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                |      |      |                |      |      |
| 4A         | SIMAZINE               | 4.00 L   | 1.000 LB/AC | PRE          | 18             | 75   | 100  | 0              | 72   | 100  |
| 4B         | TRIDIPHANE             | 4.00 E   | .750 LB/AC  | EP           |                |      |      |                |      |      |
| 4C         | CYANAZINE              | 80.00 WP | 2.000 LB/AC | EP           |                |      |      |                |      |      |
| 5A         | CYANAZINE              | 4.00 L   | 2.000 LB/AC | PRE          | 15             | 72   | 100  | 0              | 72   | 100  |
| 5B         | TRIDIPHANE             | 4.00 E   | .750 LB/AC  | EP           |                |      |      |                |      |      |
| 5C         | ATRAZINE               | 4.00 L   | 2.000 LB/AC | EP           |                |      |      |                |      |      |
| 5D         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                |      |      |                |      |      |
| 6A         | CYANAZINE              | 4.00 L   | 2.000 LB/AC | PRE          | 15             | 78   | 100  | 0              | 75   | 100  |
| 6B         | TRIDIPHANE             | 4.00 E   | .750 LB/AC  | EP           |                |      |      |                |      |      |
| 6C         | CYANAZINE              | 80.00 WP | 2.000 LB/AC | EP           |                |      |      |                |      |      |
| 7A         | EPTC PKG MIX           | 6.00 EC  | 4.000 LB/AC | PPI          | 0              | 90   | 90   | 0              | 88   | 90   |
| 7B         | ATRAZINE               | 4.00 L   | 1.500 LB/AC | PPI          |                |      |      |                |      |      |
| 8A         | EPTC PKG MIX           | 6.00 EC  | 3.000 LB/AC | PPI          | 12             | 100  | 100  | 0              | 100  | 100  |
| 8B         | TRIDIPHANE             | 4.00 E   | .500 LB/AC  | EP           |                |      |      |                |      |      |
| 8C         | ATRAZINE               | 4.00 L   | 1.500 LB/AC | EP           |                |      |      |                |      |      |
| 8D         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                |      |      |                |      |      |
| 9A         | EPTC PKG MIX           | 6.00 EC  | 3.000 LB/AC | PPI          | 10             | 100  | 100  | 0              | 100  | 100  |
| 9B         | TRIDIPHANE             | 4.00 E   | .500 LB/AC  | EP           |                |      |      |                |      |      |
| 9C         | CYANAZINE              | 80.00 WP | 1.500 LB/AC | EP           |                |      |      |                |      |      |
| 10A        | TRIDIPHANE             | 4.00 E   | .750 LB/AC  | EP           | 20             | 80   | 100  | 0              | 80   | 100  |
| 10B        | ATRAZINE               | 4.00 L   | 2.000 LB/AC | EP           |                |      |      |                |      |      |
| 10C        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                |      |      |                |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7030 SHATTERCANE CONTROL IN CORN

| TRT NO.  | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----4 WK----- |      |      | -----8 WK----- |      |      |
|----------|---------------------|----------|-------------|-----------|----------------|------|------|----------------|------|------|
|          |                     |          |             |           | CRIN           | SHCA | VELE | CRIN           | SHCA | VELE |
| 11A      | TRIDIPHANE          | 4.00 E   | .750 LB/AC  | EP        | 15             | 82   | 100  | 0              | 80   | 100  |
| 11B      | ATRAZINE            | 4.00 L   | 2.000 LB/AC | EP        |                |      |      |                |      |      |
| 11C      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                |      |      |                |      |      |
| 11D      | ATRAZINE            | 4.00 L   | 1.000 LB/AC | +7D       |                |      |      |                |      |      |
| 11E      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | +7D       |                |      |      |                |      |      |
| 12A      | TRIDIPHANE          | 4.00 E   | .750 LB/AC  | EP        | 8              | 60   | 100  | 0              | 40   | 100  |
| 12B      | CYANAZINE           | 80.00 WP | 2.000 LB/AC | EP        |                |      |      |                |      |      |
| 13A      | TRIDIPHANE          | 4.00 E   | .750 LB/AC  | EP        | 20             | 60   | 100  | 0              | 45   | 100  |
| 13B      | CYANAZINE           | 80.00 WP | 2.000 LB/AC | EP        |                |      |      |                |      |      |
| 13C      | ATRAZINE            | 4.00 L   | 1.000 LB/AC | +7D       |                |      |      |                |      |      |
| 13D      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | +7D       |                |      |      |                |      |      |
| 14A      | TRIDIPHANE          | 4.00 E   | .750 LB/AC  | EP        | 10             | 68   | 100  | 0              | 40   | 100  |
| 14B      | CYANAZINE           | 80.00 WP | 2.000 LB/AC | EP        |                |      |      |                |      |      |
| 15       | CHECK (CULTIVATED)  | .00 CK   | .000        |           | 0              | 100  | 100  | 0              | 100  | 100  |
| LSD(05): |                     |          |             |           | 8              | 9    | 0    | 0              | 12   | 0    |

LOCATION: SOUTH FARM

SOIL TYPE: MAURY SILT LOAM

FERTILIZATION (LB/AC): 250 N, 60 P, 60 K

PH: 6.5 O.M.: 2.5%

DATE PLANTED: MAY 7

DATE TREATED: PPI MAY 7

VARIETY: PIONEER 3320

PRE MAY 7

EP MAY 20

+7D MAY 28

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7011 SOYBEAN PREEMERGENCE

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----JUNE 18----- |      |      |      |      |      |      | -----JULY 21----- |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|-------------------|------|------|------|------|------|------|-------------------|------|------|------|------|
|         |                      |          |             |           | GRAS              | BRLE | CRIN | GIFT | COLQ | ILMG | TAMG | CRIN              | GIFT | COLQ | ILMG | TAMG |
| 1       | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100               | 32   | 0    | 100  | 32   | 35   | 35   | 0                 | 100  | 38   | 48   | 48   |
| 2A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100               | 78   | 10   | 100  | 100  | 78   | 78   | 2                 | 98   | 100  | 70   | 72   |
| 2B      | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 3A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 98                | 90   | 10   | 98   | 100  | 90   | 90   | 2                 | 95   | 100  | 90   | 88   |
| 3B      | LINURON              | 4.00 L   | .750 LB/AC  | PRE       |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 3C      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 3D      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 4A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100               | 90   | 10   | 100  | 100  | 95   | 90   | 5                 | 100  | 100  | 90   | 88   |
| 4B      | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 4C      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 4D      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 5A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 98                | 90   | 8    | 98   | 98   | 95   | 92   | 2                 | 92   | 98   | 92   | 92   |
| 5B      | METRIBUZIN 2         | 75.00 DF | .280 LB/AC  | PRE       |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 5C      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 5D      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 6A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100               | 90   | 10   | 100  | 100  | 95   | 90   | 0                 | 100  | 95   | 90   | 85   |
| 6B      | METRIBUZIN 2         | 75.00 DF | .375 LB/AC  | PRE       |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 6C      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 6D      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 7A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 90                | 78   | 2    | 90   | 82   | 85   | 85   | 0                 | 92   | 75   | 82   | 82   |
| 7B      | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 8A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 95                | 82   | 5    | 95   | 92   | 82   | 82   | 0                 | 95   | 88   | 85   | 85   |
| 8B      | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 9A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 92                | 85   | 5    | 92   | 95   | 85   | 85   | 2                 | 92   | 95   | 82   | 82   |
| 9B      | CHLORIMURON + METRIB | 75.00 DF | .380 LB/AC  | PRE       |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 10A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 95                | 82   | 5    | 95   | 95   | 85   | 82   | 0                 | 95   | 90   | 80   | 82   |
| 10B     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 11A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100               | 90   | 10   | 100  | 100  | 90   | 90   | 2                 | 100  | 100  | 90   | 90   |
| 11B     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 12A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 98                | 90   | 10   | 98   | 100  | 92   | 90   | 0                 | 98   | 100  | 88   | 88   |
| 12B     | DPX 8259             | 60.00 DF | 1.000 LB/AC | PRE       |                   |      |      |      |      |      |      |                   |      |      |      |      |
| 13A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100               | 62   | 0    | 100  | 65   | 82   | 80   | 0                 | 100  | 62   | 80   | 78   |
| 13B     | CYANAZINE            | 4.00 L   | .250 LB/AC  | PRE       |                   |      |      |      |      |      |      |                   |      |      |      |      |



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7011 SOYBEAN PREEMERGENCE

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----JUNE 18----- |      |      |      |      |      | -----JULY 21----- |      |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|-------------------|------|------|------|------|------|-------------------|------|------|------|------|------|
|         |                     |          |             |           | GRAS              | BRLE | CRIN | GIFT | COLQ | ILMG | TAMG              | CRIN | GIFT | COLQ | ILMG | TAMG |
| 14A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 100               | 80   | 2    | 100  | 90   | 82   | 82                | 2    | 100  | 90   | 75   | 75   |
| 14B     | CYANAZINE           | 4.00 L   | .500 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 15A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 100               | 82   | 5    | 100  | 92   | 82   | 82                | 0    | 98   | 90   | 82   | 80   |
| 15B     | CYANAZINE           | 4.00 L   | 1.000 LB/AC | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 16A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 95                | 88   | 8    | 92   | 88   | 90   | 90                | 0    | 95   | 72   | 85   | 85   |
| 16B     | CYANAZINE           | 4.00 L   | .250 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 16C     | CHLORIMURON         | 25.00 DF | .047 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 17A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 98                | 90   | 5    | 98   | 95   | 90   | 90                | 2    | 95   | 85   | 88   | 88   |
| 17B     | CYANAZINE           | 4.00 L   | .500 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 17C     | CHLORIMURON         | 25.00 DF | .047 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 18A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 95                | 85   | 10   | 95   | 95   | 90   | 88                | 5    | 92   | 90   | 88   | 88   |
| 18B     | CYANAZINE           | 4.00 L   | 1.000 LB/AC | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 18C     | CHLORIMURON         | 25.00 DF | .047 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 19A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 92                | 75   | 5    | 92   | 75   | 90   | 90                | 0    | 90   | 60   | 88   | 88   |
| 19B     | CHLORIMURON         | 25.00 DF | .047 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 20A     | ALACHLOR            | 4.00 MT  | 2.000 LB/AC | PRE       | 98                | 55   | 0    | 98   | 55   | 88   | 88                | 0    | 100  | 48   | 82   | 82   |
| 20B     | IMAZAQUIN           | 1.50 AS  | .125 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 21A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 98                | 60   | 0    | 98   | 62   | 85   | 88                | 0    | 98   | 60   | 80   | 80   |
| 21B     | IMAZAQUIN           | 1.50 AS  | .125 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 22A     | ALACHLOR            | 4.00 MT  | 1.500 LB/AC | PRE       | 95                | 65   | 0    | 95   | 68   | 82   | 80                | 0    | 95   | 68   | 82   | 80   |
| 22B     | IMAZETHAPYR         | 2.00 AS  | .063 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 23A     | ALACHLOR            | 4.00 MT  | 2.000 LB/AC | PRE       | 98                | 60   | 5    | 98   | 60   | 82   | 82                | 0    | 95   | 52   | 78   | 80   |
| 23B     | IMAZETHAPYR         | 2.00 AS  | .063 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 24A     | ALACHLOR            | 4.00 MT  | 1.500 LB/AC | PRE       | 100               | 62   | 0    | 100  | 98   | 62   | 62                | 0    | 98   | 92   | 65   | 65   |
| 24B     | FMC 57020           | 4.00 EC  | .380 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 25A     | ALACHLOR            | 4.00 MT  | 1.500 LB/AC | PRE       | 100               | 70   | 2    | 100  | 98   | 72   | 70                | 0    | 100  | 92   | 68   | 68   |
| 25B     | FMC 57020           | 4.00 EC  | .500 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 26A     | ALACHLOR            | 4.00 MT  | 2.000 LB/AC | PRE       | 100               | 70   | 2    | 100  | 98   | 72   | 72                | 0    | 95   | 98   | 70   | 68   |
| 26B     | FMC 57020           | 4.00 EC  | .380 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 27A     | ALACHLOR            | 4.00 MT  | 2.000 LB/AC | PRE       | 100               | 65   | 0    | 100  | 100  | 70   | 68                | 0    | 100  | 98   | 68   | 65   |
| 27B     | FMC 57020           | 4.00 EC  | .500 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7011 SOYBEAN PREEMERGENCE

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----JUNE 18----- |      |      |      |      |      | -----JULY 21----- |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|-------------------|------|------|------|------|------|-------------------|------|------|------|------|------|
|         |                      |          |             |           | GRAS              | BRLE | CRIN | GIFT | COLQ | ILMG | TAMG              | CRIN | GIFT | COLQ | ILMG | TAMG |
| 28A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100               | 65   | 0    | 100  | 100  | 65   | 65                | 0    | 100  | 95   | 62   | 62   |
| 28B     | FMC 57020            | 4.00 EC  | .380 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 29A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100               | 68   | 0    | 100  | 98   | 68   | 68                | 0    | 95   | 95   | 62   | 62   |
| 29B     | FMC 57020            | 4.00 EC  | .500 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 30      | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       | 95                | 28   | 0    | 95   | 28   | 32   | 32                | 0    | 98   | 30   | 50   | 48   |
| 31A     | METOLACHLOR          | 8.00 E   | 2.250 LB/AC | PRE       | 100               | 68   | 2    | 100  | 100  | 72   | 68                | 0    | 100  | 100  | 70   | 68   |
| 31B     | METRIBUZIN 1         | 4.00 F   | .375 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 32A     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       | 98                | 78   | 2    | 98   | 100  | 78   | 78                | 2    | 98   | 98   | 78   | 78   |
| 32B     | METRIBUZIN 1         | 4.00 F   | .375 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 32C     | IMAZAQUIN            | 1.50 AS  | .090 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 33A     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       | 95                | 42   | 0    | 95   | 42   | 88   | 88                | 0    | 92   | 38   | 85   | 85   |
| 33B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 34A     | METOLACHLOR          | 8.00 E   | 2.500 LB/AC | PRE       | 95                | 50   | 0    | 95   | 50   | 90   | 90                | 0    | 98   | 45   | 88   | 88   |
| 34B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 35A     | METOLACHLOR          | 8.00 E   | 1.500 LB/AC | PRE       | 95                | 48   | 0    | 95   | 48   | 88   | 88                | 0    | 98   | 45   | 85   | 85   |
| 35B     | IMAZETHAPYR          | 2.00 AS  | .047 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 36A     | METOLACHLOR          | 8.00 E   | 1.500 LB/AC | PRE       | 100               | 50   | 0    | 100  | 50   | 85   | 88                | 0    | 98   | 48   | 82   | 85   |
| 36B     | IMAZETHAPYR          | 2.00 AS  | .063 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 37A     | METOLACHLOR          | 8.00 E   | 1.500 LB/AC | PRE       | 92                | 72   | 0    | 98   | 68   | 88   | 88                | 0    | 95   | 62   | 85   | 85   |
| 37B     | IMAZETHAPYR          | 2.00 AS  | .078 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 38A     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       | 98                | 55   | 0    | 98   | 55   | 90   | 90                | 0    | 98   | 52   | 85   | 88   |
| 38B     | IMAZETHAPYR          | 2.00 AS  | .047 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 39A     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       | 100               | 62   | 0    | 100  | 62   | 85   | 85                | 0    | 100  | 58   | 75   | 75   |
| 39B     | IMAZETHAPYR          | 2.00 AS  | .063 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 40A     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       | 92                | 68   | 0    | 92   | 68   | 82   | 82                | 0    | 95   | 60   | 85   | 80   |
| 40B     | IMAZETHAPYR          | 2.00 AS  | .078 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 41A     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       | 98                | 78   | 0    | 98   | 92   | 80   | 80                | 0    | 98   | 92   | 80   | 80   |
| 41B     | PENDIMETHALIN        | 4.00 E   | .750 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 42A     | CINMETHYLIN          | 7.00 EC  | .750 LB/AC  | PRE       | 98                | 80   | 2    | 98   | 90   | 80   | 80                | 2    | 98   | 85   | 80   | 80   |
| 42B     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7011 SOYBEAN PREEMERGENCE

| TRT NO.   | HERBICIDE TREATMENT  | FORMULA   | RATE        | APPL METH | -----JUNE 18----- |      |      |      |      |      | -----JULY 21----- |      |      |      |      |      |
|-----------|----------------------|-----------|-------------|-----------|-------------------|------|------|------|------|------|-------------------|------|------|------|------|------|
|           |                      |           |             |           | GRAS              | BRLE | CRIN | GIFT | COLQ | ILMG | TAMG              | CRIN | GIFT | COLQ | ILMG | TAMG |
| 43A       | CINMETHYLIN          | 7.00 EC   | 1.000 LB/AC | PRE       | 98                | 80   | 2    | 98   | 92   | 80   | 80                | 0    | 95   | 88   | 80   | 78   |
| 43B       | CHLORIMURON + METRIB | 75.00 DF  | .280 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 44A       | CINMETHYLIN          | 7.00 EC   | .750 LB/AC  | PRE       | 100               | 70   | 0    | 100  | 98   | 70   | 72                | 0    | 100  | 95   | 70   | 72   |
| 44B       | METRIBUZIN 2         | 75.00 DF  | .280 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 45A       | CINMETHYLIN          | 7.00 EC   | 1.000 LB/AC | PRE       | 98                | 68   | 5    | 98   | 98   | 68   | 68                | 0    | 95   | 92   | 65   | 65   |
| 45B       | METRIBUZIN 2         | 75.00 DF  | .280 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 46        | METALACHLOR + METRIB | 8.00 EC   | 2.750 LB/AC | PRE       | 100               | 70   | 2    | 100  | 100  | 70   | 70                | 2    | 98   | 100  | 68   | 68   |
| 47A       | METALACHLOR + METRIB | 8.00 EC   | 2.000 LB/AC | PRE       | 95                | 75   | 0    | 95   | 98   | 75   | 75                | 0    | 95   | 95   | 72   | 75   |
| 47B       | IMAZAQUIN            | 1.50 AS   | .060 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 48A       | METALACHLOR + METRIB | 8.00 EC   | 2.000 LB/AC | PRE       | 90                | 85   | 0    | 90   | 90   | 85   | 85                | 0    | 90   | 88   | 85   | 82   |
| 48B       | IMAZAQUIN            | 1.50 AS   | .090 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 49A       | METALACHLOR + METRIB | 8.00 EC   | 2.250 LB/AC | PRE       | 98                | 80   | 5    | 98   | 95   | 80   | 80                | 2    | 95   | 95   | 78   | 78   |
| 49B       | LINURON              | 4.00 L    | .380 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 50A       | FMC 57020            | 4.00 EC   | 1.000 LB/AC | PRE       | 100               | 75   | 0    | 100  | 100  | 78   | 78                | 0    | 100  | 100  | 78   | 78   |
| 50B       | METRIBUZIN           | 75.00 DF  | .380 LB/AC  | PRE       |                   |      |      |      |      |      |                   |      |      |      |      |      |
| 51        | IMAZETHAPYR          | 2.00 AS   | .063 LB/AC  | PRE       | 100               | 48   | 0    | 100  | 48   | 85   | 85                | 0    | 95   | 42   | 78   | 75   |
| 52        | IMAZETHAPYR          | 2.00 AS   | .078 LB/AC  | PRE       | 98                | 52   | 0    | 98   | 52   | 88   | 88                | 0    | 95   | 50   | 85   | 82   |
| 53        | IMAZETHAPYR          | 2.00 AS   | .093 LB/AC  | PRE       | 98                | 68   | 0    | 100  | 68   | 88   | 88                | 0    | 98   | 62   | 82   | 82   |
| 54        | ALACHLOR + IMAZAQUIN | 74.00 WDG | 2.125 LB/AC | PRE       | 100               | 55   | 0    | 100  | 55   | 88   | 88                | 0    | 100  | 45   | 85   | 80   |
| 55        | PENDAMETHALIN + IMAZ | 2.33 EC   | .870 LB/AC  | PRE       | 92                | 80   | 0    | 92   | 85   | 85   | 85                | 0    | 92   | 78   | 85   | 82   |
| 56        | CHECK (CULTIVATED)   | .00 CK    | .000        |           | 100               | 100  | 0    | 100  | 100  | 100  | 100               | 0    | 100  | 100  | 100  | 100  |
| LSD (05): |                      |           |             |           | 6                 | 11   | 5    | 5    | 11   | 10   | 9                 | NS   | 6    | 11   | 13   | 12   |

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM  
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K PH: 6.5 O.M.: 3.4%  
 DATE PLANTED: MAY 11 DATE TREATED: PRE MAY 11  
 VARIETY: WILLIAMS 82 EP MAY 26

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7060 SOYBEAN PREEMERGENCE II

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                      |          |             |           | GRAS                            | BRLE | CRIN | GIFT | COCB | JIWE | ILMG | VELE |
| 1A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100                             | 57   | 0    | 100  | 67   | 70   | 50   | 73   |
| 1B      | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 2A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 87                              | 87   | 10   | 87   | 87   | 100  | 90   | 90   |
| 2B      | LINURON              | 4.00 L   | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 2C      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 2D      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 3A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 93                              | 53   | 0    | 93   | 73   | 60   | 60   | 70   |
| 3B      | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 4A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 93                              | 50   | 0    | 93   | 70   | 63   | 43   | 80   |
| 4B      | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 5A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 60   | 0    | 90   | 70   | 73   | 60   | 87   |
| 5B      | CHLORIMURON + METRIB | 75.00 DF | .380 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 6A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 93                              | 67   | 3    | 93   | 70   | 80   | 60   | 80   |
| 6B      | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 7A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 93                              | 70   | 0    | 93   | 73   | 80   | 70   | 87   |
| 7B      | CYANAZINE            | 4.00 L   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 7C      | CHLORIMURON          | 25.00 DF | .047 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 8A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 87                              | 67   | 0    | 87   | 70   | 83   | 83   | 73   |
| 8B      | CHLORIMURON          | 25.00 DF | .047 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 9A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 93                              | 83   | 0    | 93   | 90   | 93   | 87   | 80   |
| 9B      | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 10A     | ALACHLOR             | 4.00 MT  | 1.500 LB/AC | PRE       | 93                              | 70   | 0    | 93   | 70   | 90   | 77   | 97   |
| 10B     | IMAZETHAPYR          | 2.00 AS  | .063 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 11A     | ALACHLOR             | 4.00 MT  | 2.000 LB/AC | PRE       | 93                              | 77   | 3    | 93   | 77   | 93   | 80   | 93   |
| 11B     | IMAZETHAPYR          | 2.00 AS  | .063 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 12A     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       | 93                              | 63   | 0    | 93   | 63   | 87   | 73   | 87   |
| 12B     | METRIBUZIN 1         | 4.00 F   | .375 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 12C     | IMAZAQUIN            | 1.50 AS  | .090 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 13A     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       | 90                              | 70   | 3    | 90   | 80   | 77   | 70   | 93   |
| 13B     | PENDIMETHALIN        | 4.00 E   | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 14A     | CINMETHYLIN          | 7.00 EC  | 1.000 LB/AC | PRE       | 90                              | 47   | 0    | 90   | 67   | 47   | 40   | 83   |
| 14B     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7060 SOYBEAN PREEMERGENCE II

| TRT NO.   | HERBICIDE TREATMENT  | FORMULA   | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|-----------|----------------------|-----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|           |                      |           |             |           | GRAS                            | BRLE | CRIN | GIFT | COCB | JIWE | ILMG | VELE |
| 15A       | CINMETHYLIN          | 7.00 EC   | 1.000 LB/AC | PRE       | 97                              | 37   | 0    | 97   | 60   | 20   | 27   | 73   |
| 15B       | METRIBUZIN 2         | 75.00 DF  | .280 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 16        | METALACHLOR + METRIB | 8.00 EC   | 2.750 LB/AC | PRE       | 93                              | 40   | 0    | 93   | 67   | 80   | 13   | 80   |
| 17A       | METALACHLOR + METRIB | 8.00 EC   | 2.000 LB/AC | PRE       | 90                              | 67   | 3    | 90   | 70   | 83   | 80   | 90   |
| 17B       | IMAZAQUIN            | 1.50 AS   | .060 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 18        | IMAZETHAPYR          | 2.00 AS   | .063 LB/AC  | PRE       | 83                              | 70   | 0    | 83   | 70   | 73   | 73   | 90   |
| 19        | IMAZETHAPYR          | 2.00 AS   | .078 LB/AC  | PRE       | 90                              | 67   | 0    | 90   | 67   | 77   | 77   | 80   |
| 20        | IMAZETHAPYR          | 2.00 AS   | .093 LB/AC  | PRE       | 90                              | 73   | 0    | 90   | 77   | 70   | 70   | 90   |
| 21        | ALACHLOR + IMAZAQUIN | 74.00 WDG | 2.125 LB/AC | PRE       | 90                              | 73   | 0    | 90   | 73   | 90   | 77   | 97   |
| 22        | PENDAMETHALIN + IMAZ | 2.33 EC   | .870 LB/AC  | PRE       | 87                              | 67   | 0    | 87   | 67   | 70   | 80   | 90   |
| LSD (05): |                      |           |             |           | NS                              | 16   | NS   | NS   | NS   | 25   | 22   | NS   |

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

FERTILIZATION (LB/AC): 60 N, 60 P, 60 K

PH: 6.5 O.M.: 3.6%

DATE PLANTED: MAY 13

DATE TREATED: PRE MAY 13

VARIETY: WILLIAMS 82

EP MAY 26

## DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7060 SOYBEAN PREEMERGENCE II

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA  | RATE        | APPL<br>METH | ----8 WEEKS AFTER APPLIED -- |      |      |      |      |
|------------|------------------------|----------|-------------|--------------|------------------------------|------|------|------|------|
|            |                        |          |             |              | CRIN                         | GIFT | COCB | JIWE | VELE |
| 1A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 0                            | 97   | 67   | 63   | 73   |
| 1B         | LINURON                | 4.00 L   | 1.000 LB/AC | PRE          |                              |      |      |      |      |
| 2A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 0                            | 87   | 83   | 87   | 90   |
| 2B         | LINURON                | 4.00 L   | .750 LB/AC  | PRE          |                              |      |      |      |      |
| 2C         | CHLORIMURON            | 25.00 DF | .008 LB/AC  | EP           |                              |      |      |      |      |
| 2D         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                              |      |      |      |      |
| 3A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 0                            | 87   | 73   | 57   | 70   |
| 3B         | CHLORIMURON + METRIB   | 75.00 DF | .188 LB/AC  | PRE          |                              |      |      |      |      |
| 4A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 0                            | 93   | 67   | 63   | 80   |
| 4B         | CHLORIMURON + METRIB   | 75.00 DF | .280 LB/AC  | PRE          |                              |      |      |      |      |
| 5A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 0                            | 90   | 67   | 67   | 87   |
| 5B         | CHLORIMURON + METRIB   | 75.00 DF | .380 LB/AC  | PRE          |                              |      |      |      |      |
| 6A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 0                            | 87   | 70   | 77   | 80   |
| 6B         | DPX 8259               | 60.00 DF | .600 LB/AC  | PRE          |                              |      |      |      |      |
| 7A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 0                            | 90   | 70   | 70   | 87   |
| 7B         | CYANAZINE              | 4.00 L   | 1.000 LB/AC | PRE          |                              |      |      |      |      |
| 7C         | CHLORIMURON            | 25.00 DF | .047 LB/AC  | PRE          |                              |      |      |      |      |
| 8A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 0                            | 87   | 70   | 77   | 73   |
| 8B         | CHLORIMURON            | 25.00 DF | .047 LB/AC  | PRE          |                              |      |      |      |      |
| 9A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 0                            | 83   | 87   | 83   | 80   |
| 9B         | IMAZAQUIN              | 1.50 AS  | .125 LB/AC  | PRE          |                              |      |      |      |      |
| 10A        | ALACHLOR               | 4.00 MT  | 1.500 LB/AC | PRE          | 0                            | 90   | 70   | 80   | 97   |
| 10B        | IMAZETHAPYR            | 2.00 AS  | .063 LB/AC  | PRE          |                              |      |      |      |      |
| 11A        | ALACHLOR               | 4.00 MT  | 2.000 LB/AC | PRE          | 0                            | 90   | 70   | 77   | 93   |
| 11B        | IMAZETHAPYR            | 2.00 AS  | .063 LB/AC  | PRE          |                              |      |      |      |      |
| 12A        | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PRE          | 0                            | 90   | 60   | 83   | 83   |
| 12B        | METRIBUZIN 1           | 4.00 F   | .375 LB/AC  | PRE          |                              |      |      |      |      |
| 12C        | IMAZAQUIN              | 1.50 AS  | .090 LB/AC  | PRE          |                              |      |      |      |      |
| 13A        | IMAZAQUIN              | 1.50 AS  | .125 LB/AC  | PRE          | 0                            | 83   | 77   | 70   | 93   |
| 13B        | PENDIMETHALIN          | 4.00 E   | .750 LB/AC  | PRE          |                              |      |      |      |      |
| 14A        | CINMETHYLIN            | 7.00 EC  | 1.000 LB/AC | PRE          | 0                            | 90   | 67   | 40   | 83   |
| 14B        | CHLORIMURON + METRIB   | 75.00 DF | .280 LB/AC  | PRE          |                              |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7060 SOYBEAN PREEMERGENCE II

| TRT NO. | HERBICIDE TREATMENT  | FORMULA   | RATE        | APPL METH | ----8 WEEKS AFTER APPLIED -- |      |      |      |      |
|---------|----------------------|-----------|-------------|-----------|------------------------------|------|------|------|------|
|         |                      |           |             |           | CRIN                         | GIFT | COCB | JIWE | VELE |
| 15A     | CINMETHYLIN          | 7.00 EC   | 1.000 LB/AC | PRE       | 0                            | 90   | 60   | 20   | 73   |
| 15B     | METRIBUZIN 2         | 75.00 DF  | .280 LB/AC  | PRE       |                              |      |      |      |      |
| 16      | METALACHLOR + METRIB | 8.00 EC   | 2.750 LB/AC | PRE       | 0                            | 90   | 63   | 73   | 77   |
| 17A     | METALACHLOR + METRIB | 8.00 EC   | 2.000 LB/AC | PRE       | 0                            | 83   | 70   | 77   | 87   |
| 17B     | IMAZAQUIN            | 1.50 AS   | .060 LB/AC  | PRE       |                              |      |      |      |      |
| 18      | IMAZETHAPYR          | 2.00 AS   | .063 LB/AC  | PRE       | 0                            | 83   | 67   | 67   | 90   |
| 19      | IMAZETHAPYR          | 2.00 AS   | .078 LB/AC  | PRE       | 0                            | 87   | 67   | 70   | 77   |
| 20      | IMAZETHAPYR          | 2.00 AS   | .093 LB/AC  | PRE       | 0                            | 87   | 73   | 67   | 90   |
| 21      | ALACHLOR + IMAZAQUIN | 74.00 WDG | 2.125 LB/AC | PRE       | 0                            | 83   | 60   | 83   | 97   |
| 22      | PENDAMETHALIN + IMAZ | 2.33 EC   | .870 LB/AC  | PRE       | 0                            | 87   | 67   | 67   | 87   |
|         |                      |           | LSD(05):    |           | 0                            | NS   | NS   | 25   | NS   |

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

FERTILIZATION (LB/AC): 60 N,

60 P,

60 K

PH: 6.5

O.M.: 3.6%

DATE PLANTED: MAY 13

DATE TREATED: PRE MAY 13

VARIETY: WILLIAMS 82

EP MAY 26

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7013 SOYBEAN PREPLANT INCORPORATED

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE            | APPL METH | -----JUNE 18----- |      |      |      |      |      |      |      |
|---------|----------------------|----------|-----------------|-----------|-------------------|------|------|------|------|------|------|------|
|         |                      |          |                 |           | GRAS              | BRLB | CRIN | GIFT | JIWE | COLQ | ILMG | TAMG |
| 1A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC PPI |           | 92                | 45   | 0    | 92   | 92   | 98   | 22   | 25   |
| 1B      | METRIBUZIN 1         | 4.00 F   | .500 LB/AC PPI  |           |                   |      |      |      |      |      |      |      |
| 2A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC PPI |           | 88                | 78   | 0    | 88   | 98   | 100  | 75   | 70   |
| 2B      | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC PPI  |           |                   |      |      |      |      |      |      |      |
| 3A      | ALACHLOR             | 4.00 MT  | 1.500 LB/AC PPI |           | 95                | 55   | 0    | 95   | 92   | 78   | 30   | 30   |
| 3B      | FMC 57020            | 4.00 EC  | .380 LB/AC PPI  |           |                   |      |      |      |      |      |      |      |
| 4A      | ALACHLOR             | 4.00 MT  | 1.500 LB/AC PPI |           | 100               | 35   | 0    | 100  | 88   | 88   | 18   | 18   |
| 4B      | FMC 57020            | 4.00 EC  | .500 LB/AC PPI  |           |                   |      |      |      |      |      |      |      |
| 5A      | ALACHLOR             | 4.00 MT  | 2.000 LB/AC PPI |           | 100               | 40   | 0    | 100  | 90   | 98   | 25   | 25   |
| 5B      | FMC 57020            | 4.00 EC  | .380 LB/AC PPI  |           |                   |      |      |      |      |      |      |      |
| 6A      | ALACHLOR             | 4.00 MT  | 2.000 LB/AC PPI |           | 100               | 42   | 0    | 100  | 98   | 95   | 22   | 20   |
| 6B      | FMC 57020            | 4.00 EC  | .500 LB/AC PPI  |           |                   |      |      |      |      |      |      |      |
| 7A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC PPI |           | 98                | 45   | 0    | 98   | 95   | 88   | 22   | 22   |
| 7B      | FMC 57020            | 4.00 EC  | .380 LB/AC PPI  |           |                   |      |      |      |      |      |      |      |
| 8A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC PPI |           | 100               | 40   | 0    | 100  | 98   | 95   | 20   | 20   |
| 8B      | FMC 57020            | 4.00 EC  | .500 LB/AC PPI  |           |                   |      |      |      |      |      |      |      |
| 9A      | METOLACHLOR          | 8.00 E   | 2.000 LB/AC PPI |           | 92                | 72   | 0    | 92   | 98   | 92   | 62   | 62   |
| 9B      | IMAZAQUIN            | 1.50 AS  | .125 LB/AC PPI  |           |                   |      |      |      |      |      |      |      |
| 10A     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC PPI |           | 100               | 48   | 0    | 100  | 95   | 95   | 28   | 28   |
| 10B     | FMC 57020            | 4.00 EC  | .750 LB/AC PPI  |           |                   |      |      |      |      |      |      |      |
| 11A     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC PPI |           | 100               | 48   | 0    | 100  | 100  | 100  | 22   | 22   |
| 11B     | FMC 57020            | 4.00 EC  | 1.000 LB/AC PPI |           |                   |      |      |      |      |      |      |      |
| 12A     | METOLACHLOR          | 8.00 E   | 1.500 LB/AC PPI |           | 95                | 65   | 0    | 95   | 90   | 95   | 62   | 58   |
| 12B     | IMAZETHAPYR          | 2.00 AS  | .047 LB/AC PPI  |           |                   |      |      |      |      |      |      |      |
| 13A     | METOLACHLOR          | 8.00 E   | 1.500 LB/AC PPI |           | 98                | 75   | 0    | 98   | 95   | 95   | 70   | 65   |
| 13B     | IMAZETHAPYR          | 2.00 AS  | .063 LB/AC PPI  |           |                   |      |      |      |      |      |      |      |
| 14A     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC PPI |           | 90                | 78   | 0    | 90   | 98   | 98   | 62   | 62   |
| 14B     | IMAZETHAPYR          | 2.00 AS  | .047 LB/AC PPI  |           |                   |      |      |      |      |      |      |      |



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7013 SOYBEAN PREPLANT INCORPORATED

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----JUNE 18----- |      |      |      |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|-------------------|------|------|------|------|------|------|------|
|         |                     |          |             |           | GRAS              | BRLE | CRIN | GIFT | JIWE | COLQ | ILMG | TAMG |
| 15A     | METOLACHLOR         | 8.00 E   | 2.000 LB/AC | PPI       | 92                | 78   | 0    | 92   | 98   | 95   | 72   | 68   |
| 15B     | IMAZETHAPYR         | 2.00 AS  | .063 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 16A     | METOLACHLOR         | 8.00 E   | 2.500 LB/AC | PPI       | 98                | 78   | 0    | 98   | 92   | 98   | 72   | 68   |
| 16B     | IMAZETHAPYR         | 2.00 AS  | .047 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 17A     | METOLACHLOR         | 8.00 E   | 2.500 LB/AC | PPI       | 98                | 85   | 2    | 98   | 100  | 98   | 80   | 78   |
| 17B     | IMAZETHAPYR         | 2.00 AS  | .063 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 18A     | METOLACHLOR         | 8.00 E   | 2.500 LB/AC | PPI       | 98                | 75   | 2    | 98   | 95   | 98   | 60   | 65   |
| 18B     | METRIBUZIN 1        | 4.00 F   | .420 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 18C     | IMAZAQUIN           | 1.50 AS  | .060 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 19A     | METOLACHLOR         | 8.00 E   | 2.500 LB/AC | PPI       | 95                | 78   | 0    | 95   | 100  | 98   | 62   | 68   |
| 19B     | METRIBUZIN 1        | 4.00 F   | .420 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 19C     | IMAZAQUIN           | 1.50 AS  | .090 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 20A     | METOLACHLOR         | 8.00 E   | 2.500 LB/AC | PPI       | 98                | 65   | 0    | 98   | 98   | 100  | 52   | 52   |
| 20B     | METRIBUZIN 1        | 4.00 F   | .420 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 20C     | FMC 57020           | 4.00 EC  | .250 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 21A     | TRIFLURALIN         | 4.00 E   | 1.000 LB/AC | PPI       | 90                | 78   | 0    | 90   | 78   | 90   | 75   | 75   |
| 21B     | METRIBUZIN 1        | 4.00 F   | .500 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 22A     | TRIFLURALIN         | 4.00 E   | 1.000 LB/AC | PPI       | 92                | 85   | 0    | 92   | 80   | 98   | 88   | 82   |
| 22B     | METRIBUZIN 1        | 4.00 F   | .380 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 22C     | IMAZAQUIN           | 1.50 AS  | .063 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 23A     | TRIFLURALIN         | 4.00 E   | 1.000 LB/AC | PPI       | 95                | 90   | 0    | 95   | 92   | 92   | 92   | 85   |
| 23B     | METRIBUZIN 1        | 4.00 F   | .380 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 23C     | IMAZAQUIN           | 1.50 AS  | .096 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 24A     | TRIFLURALIN         | 4.00 E   | 1.000 LB/AC | PPI       | 95                | 88   | 0    | 95   | 92   | 95   | 80   | 80   |
| 24B     | METRIBUZIN 1        | 4.00 F   | .400 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 24C     | FMC 57020           | 4.00 EC  | .250 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 25A     | TRIFLURALIN         | 4.00 E   | .750 LB/AC  | PPI       | 88                | 92   | 5    | 88   | 98   | 90   | 92   | 92   |
| 25B     | METRIBUZIN 2        | 75.00 DF | .280 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 25C     | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                   |      |      |      |      |      |      |      |
| 25D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                   |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7013 SOYBEAN PREPLANT INCORPORATED

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | JUNE 18 |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|---------|------|------|------|------|------|------|------|
|         |                      |          |             |           | GRAS    | BRLE | CRIN | GIFT | JIWE | COLQ | ILMG | TAMG |
| 26A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 88      | 88   | 5    | 88   | 98   | 92   | 90   | 85   |
| 26B     | METRIBUZIN 2         | 75.00 DF | .380 LB/AC  | PPI       |         |      |      |      |      |      |      |      |
| 26C     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |         |      |      |      |      |      |      |      |
| 26D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |         |      |      |      |      |      |      |      |
| 27A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 90      | 90   | 2    | 90   | 98   | 92   | 88   | 90   |
| 27B     | LINURON              | 4.00 L   | .280 LB/AC  | PPI       |         |      |      |      |      |      |      |      |
| 27C     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |         |      |      |      |      |      |      |      |
| 27D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |         |      |      |      |      |      |      |      |
| 28A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 90      | 90   | 5    | 90   | 100  | 92   | 92   | 92   |
| 28B     | LINURON              | 4.00 L   | .380 LB/AC  | PPI       |         |      |      |      |      |      |      |      |
| 28C     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |         |      |      |      |      |      |      |      |
| 28D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |         |      |      |      |      |      |      |      |
| 29A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 90      | 85   | 0    | 90   | 98   | 88   | 88   | 80   |
| 29B     | IMAZAQUIN            | 1.50 AS  | .060 LB/AC  | EP        |         |      |      |      |      |      |      |      |
| 29C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |         |      |      |      |      |      |      |      |
| 30A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 90      | 75   | 0    | 90   | 72   | 95   | 78   | 70   |
| 30B     | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PPI       |         |      |      |      |      |      |      |      |
| 31A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 90      | 82   | 0    | 90   | 82   | 98   | 82   | 78   |
| 31B     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PPI       |         |      |      |      |      |      |      |      |
| 32A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 92      | 82   | 0    | 92   | 85   | 98   | 80   | 75   |
| 32B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PPI       |         |      |      |      |      |      |      |      |
| 33A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 95      | 88   | 0    | 95   | 90   | 95   | 85   | 88   |
| 33B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PPI       |         |      |      |      |      |      |      |      |
| 34A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 90      | 82   | 2    | 90   | 78   | 98   | 85   | 82   |
| 34B     | DPX 8259             | 60.00 DF | .450 LB/AC  | PPI       |         |      |      |      |      |      |      |      |
| 35A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 92      | 90   | 0    | 90   | 90   | 100  | 85   | 85   |
| 35B     | DPX 8259             | 60.00 DF | .600 LB/AC  | PPI       |         |      |      |      |      |      |      |      |
| 36A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 90      | 88   | 2    | 90   | 100  | 92   | 90   | 82   |
| 36B     | LACTOFEN             | 2.00 E   | .200 LB/AC  | EP        |         |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7013 SOYBEAN PREPLANT INCORPORATED

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----JUNE 18----- |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|-------------------|------|------|------|------|------|------|------|
|         |                      |          |             |           | GRAS              | BRLE | CRIN | GIFT | JIWE | COLQ | ILMG | TAMG |
| 37A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 92                | 90   | 12   | 92   | 100  | 92   | 95   | 82   |
| 37B     | LACTOFEN             | 2.00 E   | .200 LB/AC  | EP        |                   |      |      |      |      |      |      |      |
| 37C     | X-77 (SURFACTANT)    | .50 WA   | .250 ‡      | EP        |                   |      |      |      |      |      |      |      |
| 38A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 92                | 90   | 8    | 92   | 100  | 92   | 92   | 85   |
| 38B     | LACTOFEN             | 2.00 E   | .150 LB/AC  | EP        |                   |      |      |      |      |      |      |      |
| 38C     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | EP        |                   |      |      |      |      |      |      |      |
| 39A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 90                | 90   | 20   | 90   | 100  | 88   | 100  | 85   |
| 39B     | LACTOFEN             | 2.00 E   | .200 LB/AC  | EP        |                   |      |      |      |      |      |      |      |
| 39C     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | EP        |                   |      |      |      |      |      |      |      |
| 40A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 92                | 90   | 12   | 92   | 98   | 98   | 92   | 90   |
| 40B     | LACTOFEN             | 2.00 E   | .150 LB/AC  | EP        |                   |      |      |      |      |      |      |      |
| 40C     | BENTAZON             | 4.00 E   | .380 LB/AC  | EP        |                   |      |      |      |      |      |      |      |
| 40D     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | EP        |                   |      |      |      |      |      |      |      |
| 41A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 95                | 90   | 15   | 95   | 100  | 95   | 95   | 92   |
| 41B     | LACTOFEN             | 2.00 E   | .150 LB/AC  | EP        |                   |      |      |      |      |      |      |      |
| 41C     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | EP        |                   |      |      |      |      |      |      |      |
| 41D     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | EP        |                   |      |      |      |      |      |      |      |
| 42A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 88                | 92   | 18   | 88   | 100  | 95   | 98   | 95   |
| 42B     | LACTOFEN             | 2.00 E   | .150 LB/AC  | EP        |                   |      |      |      |      |      |      |      |
| 42C     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                   |      |      |      |      |      |      |      |
| 42D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                   |      |      |      |      |      |      |      |
| 43A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 92                | 80   | 0    | 92   | 88   | 90   | 75   | 75   |
| 43B     | CHLORIMURON + METRIB | 75.00 DF | .230 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 44A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 98                | 90   | 0    | 98   | 92   | 100  | 88   | 85   |
| 44B     | IMAZETHAPYR          | 2.00 AS  | .090 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |
| 45A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 100               | 92   | 10   | 100  | 100  | 98   | 98   | 92   |
| 45B     | IMAZETHAPYR          | 2.00 AS  | .060 LB/AC  | EP        |                   |      |      |      |      |      |      |      |
| 45C     | X-77 (SURFACTANT)    | .50 WA   | .250 ‡      | EP        |                   |      |      |      |      |      |      |      |
| 46A     | METRIBUZIN 1         | 4.00 F   | .380 LB/AC  | PPI       | 100               | 42   | 0    | 100  | 100  | 98   | 28   | 28   |
| 46B     | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       |                   |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7013 SOYBEAN PREPLANT INCORPORATED

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | ----- JUNE 18 ----- |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|---------------------|------|------|------|------|------|------|------|
|         |                      |          |             |           | GRAS                | BRLE | CRIN | GIFT | JIWE | COLQ | ILMG | TAMG |
| 47A     | METRIBUZIN 1         | 4.00 F   | .500 LB/AC  | PPI       | 100                 | 58   | 0    | 100  | 98   | 100  | 40   | 42   |
| 47B     | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       |                     |      |      |      |      |      |      |      |
| 48A     | PENDIMETHALIN        | 4.00 E   | .750 LB/AC  | PPI       | 92                  | 82   | 2    | 92   | 90   | 95   | 78   | 80   |
| 48B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PPI       |                     |      |      |      |      |      |      |      |
| 49A     | PENDIMETHALIN        | 4.00 E   | .750 LB/AC  | PPI       | 92                  | 85   | 0    | 92   | 100  | 92   | 82   | 80   |
| 49B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | EP        |                     |      |      |      |      |      |      |      |
| 49C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                     |      |      |      |      |      |      |      |
| 50A     | ETHALFLURALIN        | 3.00 E   | .940 LB/AC  | PPI       | 95                  | 88   | 0    | 95   | 100  | 95   | 82   | 78   |
| 50B     | IMAZAQUIN            | 1.50 AS  | .060 LB/AC  | EP        |                     |      |      |      |      |      |      |      |
| 50C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                     |      |      |      |      |      |      |      |
| 51A     | ETHALFLURALIN        | 3.00 E   | .940 LB/AC  | PPI       | 92                  | 85   | 2    | 92   | 82   | 98   | 85   | 78   |
| 51B     | CHLORIMURON + METRIB | 75.00 DF | .230 LB/AC  | PPI       |                     |      |      |      |      |      |      |      |
| 52A     | ETHALFLURALIN        | 3.00 E   | .940 LB/AC  | PPI       | 98                  | 90   | 0    | 98   | 98   | 98   | 90   | 85   |
| 52B     | IMAZETHAPYR          | 2.00 AS  | .090 LB/AC  | PPI       |                     |      |      |      |      |      |      |      |
| 53A     | ETHALFLURALIN        | 3.00 E   | .940 LB/AC  | PPI       | 100                 | 90   | 10   | 100  | 100  | 95   | 100  | 90   |
| 53B     | IMAZETHAPYR          | 2.00 AS  | .060 LB/AC  | EP        |                     |      |      |      |      |      |      |      |
| 53C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                     |      |      |      |      |      |      |      |
| 54A     | ETHALFLURALIN        | 3.00 E   | .940 LB/AC  | PPI       | 95                  | 88   | 0    | 95   | 85   | 100  | 90   | 90   |
| 54B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PPI       |                     |      |      |      |      |      |      |      |
| 55      | FMC 57020            | 4.00 EC  | 1.000 LB/AC | PPI       | 100                 | 40   | 0    | 100  | 95   | 98   | 25   | 22   |
| 56A     | FMC 57020            | 4.00 EC  | 1.000 LB/AC | PPI       | 100                 | 38   | 0    | 100  | 100  | 98   | 22   | 22   |
| 56B     | METRIBUZIN 1         | 4.00 F   | .190 LB/AC  | PPI       |                     |      |      |      |      |      |      |      |
| 57A     | FMC 57020            | 4.00 EC  | 1.000 LB/AC | PPI       | 100                 | 48   | 0    | 100  | 100  | 100  | 32   | 28   |
| 57B     | METRIBUZIN 1         | 4.00 F   | .380 LB/AC  | PPI       |                     |      |      |      |      |      |      |      |
| 58A     | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       | 100                 | 62   | 0    | 100  | 98   | 98   | 50   | 50   |
| 58B     | IMAZAQUIN            | 1.50 AS  | .060 LB/AC  | PPI       |                     |      |      |      |      |      |      |      |
| 59A     | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       | 98                  | 85   | 0    | 98   | 92   | 100  | 80   | 75   |
| 59B     | IMAZAQUIN            | 1.50 AS  | .090 LB/AC  | PPI       |                     |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7013 SOYBEAN PREPLANT INCORPORATED

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA  | RATE        | APPL<br>METH | -----JUNE 18----- |      |      |      |      |      |      |      |
|------------|------------------------|----------|-------------|--------------|-------------------|------|------|------|------|------|------|------|
|            |                        |          |             |              | GRAS              | BRLE | CRIN | GIFT | JIWE | COLQ | ILMG | TAMG |
| 60A        | FMC 57020              | 4.00 EC  | .750 LB/AC  | PPI          | 100               | 75   | 2    | 100  | 95   | 100  | 65   | 62   |
| 60B        | CHLORIMURON + METRIB   | 75.00 DF | .380 LB/AC  | PPI          |                   |      |      |      |      |      |      |      |
| 61A        | FMC 57020              | 4.00 EC  | .750 LB/AC  | PPI          | 100               | 70   | 0    | 100  | 98   | 100  | 65   | 58   |
| 61B        | IMAZETHAPYR            | 2.00 AS  | .060 LB/AC  | PPI          |                   |      |      |      |      |      |      |      |
| 62A        | FMC 57020              | 4.00 EC  | .750 LB/AC  | PPI          | 95                | 68   | 2    | 95   | 100  | 95   | 60   | 48   |
| 62B        | LACTOFEN               | 2.00 E   | .200 LB/AC  | EP           |                   |      |      |      |      |      |      |      |
| 63         | IMAZETHAPYR            | 2.00 AS  | .063 LB/AC  | PPI          | 88                | 65   | 0    | 88   | 60   | 92   | 60   | 60   |
| 64         | IMAZETHAPYR            | 2.00 AS  | .078 LB/AC  | PPI          | 88                | 78   | 0    | 88   | 82   | 92   | 70   | 70   |
| 65         | IMAZETHAPYR            | 2.00 AS  | .093 LB/AC  | PPI          | 92                | 75   | 0    | 92   | 85   | 88   | 75   | 75   |
| 66A        | IMAZETHAPYR            | 2.00 AS  | .063 LB/AC  | PPI          | 92                | 90   | 0    | 92   | 98   | 100  | 88   | 90   |
| 66B        | PENDIMETHALIN          | 4.00 E   | .750 LB/AC  | PPI          |                   |      |      |      |      |      |      |      |
| 67A        | IMAZETHAPYR            | 2.00 AS  | .063 LB/AC  | PPI          | 95                | 85   | 0    | 95   | 92   | 98   | 80   | 78   |
| 67B        | PENDIMETHALIN          | 4.00 E   | 1.000 LB/AC | PPI          |                   |      |      |      |      |      |      |      |
| 68         | TREFLAN + METRIBUZIN   | 4.00 EC  | 1.500 LB/AC | PPI          | 90                | 85   | 0    | 90   | 85   | 92   | 80   | 80   |
| 69A        | TREFLAN + METRIBUZIN   | 4.00 EC  | 1.125 LB/AC | PPI          | 92                | 88   | 2    | 92   | 90   | 95   | 88   | 82   |
| 69B        | IMAZAQUIN              | 1.50 AS  | .060 LB/AC  | PPI          |                   |      |      |      |      |      |      |      |
| 70A        | TREFLAN + METRIBUZIN   | 4.00 EC  | 1.125 LB/AC | PPI          | 90                | 80   | 0    | 90   | 82   | 98   | 78   | 78   |
| 70B        | IMAZAQUIN              | 1.50 AS  | .090 LB/AC  | PPI          |                   |      |      |      |      |      |      |      |
| 71A        | TREFLAN + METRIBUZIN   | 4.00 EC  | 1.125 LB/AC | PPI          | 95                | 72   | 0    | 95   | 90   | 100  | 62   | 58   |
| 71B        | FMC 57020              | 4.00 EC  | .250 LB/AC  | PPI          |                   |      |      |      |      |      |      |      |
| 72         | TRIFLUR. + FMC 57020   | 5.25 EC  | 1.640 LB/AC | PPI          | 98                | 88   | 0    | 98   | 92   | 98   | 82   | 80   |
| 73A        | TRIFLUR. + FMC 57020   | 5.25 EC  | 1.310 LB/AC | PPI          | 95                | 75   | 0    | 95   | 95   | 100  | 68   | 62   |
| 73B        | METRIBUZIN             | 75.00 DF | .380 LB/AC  | PPI          |                   |      |      |      |      |      |      |      |
| 74A        | TRIFLUR. + FMC 57020   | 5.25 EC  | 1.310 LB/AC | PPI          | 100               | 82   | 0    | 100  | 98   | 98   | 82   | 78   |
| 74B        | CHLORIMURON + METRIB   | 75.00 DF | .230 LB/AC  | PPI          |                   |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7013 SOYBEAN PREPLANT INCORPORATED

| TRT NO. | HERBICIDE TREATMENT  | FORMULA | RATE        | APPL METH | JUNE 18 |      |      |      |      |      |      |      |
|---------|----------------------|---------|-------------|-----------|---------|------|------|------|------|------|------|------|
|         |                      |         |             |           | GRAS    | BRLE | CRIN | GIFT | JIWE | COLQ | ILMG | TAMG |
| 75A     | TRIFLUR. + FMC 57020 | 5.25 EC | 1.310 LB/AC | PPI       | 98      | 80   | 0    | 98   | 92   | 100  | 85   | 70   |
| 75B     | IMAZAQUIN            | 1.50 AS | .060 LB/AC  | PPI       |         |      |      |      |      |      |      |      |
| 76A     | METALACHLOR + METRIB | 8.00 EC | 2.750 LB/AC | PPI       | 98      | 60   | 0    | 98   | 100  | 100  | 45   | 45   |
| 76B     | FMC 57020            | 4.00 EC | .250 LB/AC  | PPI       |         |      |      |      |      |      |      |      |
| 77      | PENDAMETHALIN + IMAZ | 2.33 EC | .870 LB/AC  | PPI       | 95      | 82   | 0    | 95   | 95   | 95   | 70   | 70   |
| 78      | CHECK (CULTIVATED)   | .00 CK  | .000        |           | 100     | 100  | 0    | 100  | 100  | 100  | 100  | 100  |
|         |                      |         | LSD(05):    |           | 6       | 11   | 4    | 6    | 13   | 8    | 15   | 15   |

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

FERTILIZATION (LB/AC): 60 N, 60 P, 60 K

PH: 6.4 O.M.: 3.4%

DATE PLANTED: MAY 11

DATE TREATED: PPI MAY 11

VARIETY: WILLIAMS 82

EP MAY 26

MP JUNE 3

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7013 SOYBEAN PREPLANT INCORPORATED

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA  | RATE        | APPL<br>METH | ----- 8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |
|------------|------------------------|----------|-------------|--------------|-----------------------------------|------|------|------|------|------|
|            |                        |          |             |              | CRIN                              | GIFT | JIWE | COLQ | ILMG | TAMG |
| 1A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PPI          | 0                                 | 92   | 92   | 98   | 25   | 25   |
| 1B         | METRIBUZIN 1           | 4.00 F   | .500 LB/AC  | PPI          |                                   |      |      |      |      |      |
| 2A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PPI          | 0                                 | 90   | 92   | 100  | 72   | 70   |
| 2B         | CHLORIMURON + METRIB   | 75.00 DF | .500 LB/AC  | PPI          |                                   |      |      |      |      |      |
| 3A         | ALACHLOR               | 4.00 MT  | 1.500 LB/AC | PPI          | 0                                 | 95   | 92   | 75   | 28   | 28   |
| 3B         | FMC 57020              | 4.00 EC  | .380 LB/AC  | PPI          |                                   |      |      |      |      |      |
| 4A         | ALACHLOR               | 4.00 MT  | 1.500 LB/AC | PPI          | 0                                 | 100  | 82   | 88   | 18   | 18   |
| 4B         | FMC 57020              | 4.00 EC  | .500 LB/AC  | PPI          |                                   |      |      |      |      |      |
| 5A         | ALACHLOR               | 4.00 MT  | 2.000 LB/AC | PPI          | 0                                 | 100  | 90   | 98   | 22   | 22   |
| 5B         | FMC 57020              | 4.00 EC  | .380 LB/AC  | PPI          |                                   |      |      |      |      |      |
| 6A         | ALACHLOR               | 4.00 MT  | 2.000 LB/AC | PPI          | 0                                 | 100  | 98   | 95   | 18   | 18   |
| 6B         | FMC 57020              | 4.00 EC  | .500 LB/AC  | PPI          |                                   |      |      |      |      |      |
| 7A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PPI          | 0                                 | 98   | 90   | 82   | 28   | 28   |
| 7B         | FMC 57020              | 4.00 EC  | .380 LB/AC  | PPI          |                                   |      |      |      |      |      |
| 8A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PPI          | 0                                 | 100  | 95   | 95   | 18   | 18   |
| 8B         | FMC 57020              | 4.00 EC  | .500 LB/AC  | PPI          |                                   |      |      |      |      |      |
| 9A         | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PPI          | 0                                 | 92   | 90   | 90   | 68   | 68   |
| 9B         | IMAZAQUIN              | 1.50 AS  | .125 LB/AC  | PPI          |                                   |      |      |      |      |      |
| 10A        | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PPI          | 0                                 | 100  | 95   | 95   | 28   | 28   |
| 10B        | FMC 57020              | 4.00 EC  | .750 LB/AC  | PPI          |                                   |      |      |      |      |      |
| 11A        | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PPI          | 0                                 | 100  | 100  | 100  | 22   | 20   |
| 11B        | FMC 57020              | 4.00 EC  | 1.000 LB/AC | PPI          |                                   |      |      |      |      |      |
| 12A        | METOLACHLOR            | 8.00 E   | 1.500 LB/AC | PPI          | 0                                 | 95   | 92   | 95   | 62   | 58   |
| 12B        | IMAZETHAPYR            | 2.00 AS  | .047 LB/AC  | PPI          |                                   |      |      |      |      |      |
| 13A        | METOLACHLOR            | 8.00 E   | 1.500 LB/AC | PPI          | 0                                 | 98   | 92   | 95   | 72   | 68   |
| 13B        | IMAZETHAPYR            | 2.00 AS  | .063 LB/AC  | PPI          |                                   |      |      |      |      |      |
| 14A        | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PPI          | 0                                 | 90   | 98   | 95   | 60   | 60   |
| 14B        | IMAZETHAPYR            | 2.00 AS  | .047 LB/AC  | PPI          |                                   |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7013 SOYBEAN PREPLANT INCORPORATED

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | 8 WEEKS AFTER APPLIED |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|-----------------------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                  | GIFT | JIWE | COLQ | ILMG | TAMG |
| 26A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 0                     | 90   | 98   | 92   | 88   | 85   |
| 26B     | METRIBUZIN 2         | 75.00 DF | .380 LB/AC  | PPI       |                       |      |      |      |      |      |
| 26C     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                       |      |      |      |      |      |
| 26D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                       |      |      |      |      |      |
| 27A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 2                     | 90   | 98   | 85   | 88   | 90   |
| 27B     | LINURON              | 4.00 L   | .280 LB/AC  | PPI       |                       |      |      |      |      |      |
| 27C     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                       |      |      |      |      |      |
| 27D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                       |      |      |      |      |      |
| 28A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 0                     | 90   | 100  | 85   | 90   | 90   |
| 28B     | LINURON              | 4.00 L   | .380 LB/AC  | PPI       |                       |      |      |      |      |      |
| 28C     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                       |      |      |      |      |      |
| 28D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                       |      |      |      |      |      |
| 29A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 0                     | 92   | 98   | 85   | 88   | 78   |
| 29B     | IMAZAQUIN            | 1.50 AS  | .060 LB/AC  | EP        |                       |      |      |      |      |      |
| 29C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                       |      |      |      |      |      |
| 30A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 0                     | 90   | 65   | 95   | 78   | 72   |
| 30B     | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PPI       |                       |      |      |      |      |      |
| 31A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 0                     | 90   | 82   | 98   | 82   | 78   |
| 31B     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PPI       |                       |      |      |      |      |      |
| 32A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 0                     | 90   | 80   | 95   | 75   | 75   |
| 32B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PPI       |                       |      |      |      |      |      |
| 33A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 0                     | 95   | 90   | 95   | 85   | 88   |
| 33B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PPI       |                       |      |      |      |      |      |
| 34A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 2                     | 90   | 72   | 98   | 85   | 82   |
| 34B     | DPX 8259             | 60.00 DF | .450 LB/AC  | PPI       |                       |      |      |      |      |      |
| 35A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 0                     | 90   | 88   | 100  | 82   | 82   |
| 35B     | DPX 8259             | 60.00 DF | .600 LB/AC  | PPI       |                       |      |      |      |      |      |
| 36A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 2                     | 92   | 98   | 88   | 88   | 80   |
| 36B     | LACTOFEN             | 2.00 E   | .200 LB/AC  | EP        |                       |      |      |      |      |      |



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7013 SOYBEAN PREPLANT INCORPORATED

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | ----- 8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|-----------------------------------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                              | GIFT | JIWE | COLQ | ILMG | TAMG |
| 37A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 5                                 | 92   | 98   | 88   | 92   | 82   |
| 37B     | LACTOFEN             | 2.00 E   | .200 LB/AC  | EP        |                                   |      |      |      |      |      |
| 37C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                                   |      |      |      |      |      |
| 38A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 2                                 | 92   | 98   | 88   | 88   | 85   |
| 38B     | LACTOFEN             | 2.00 E   | .150 LB/AC  | EP        |                                   |      |      |      |      |      |
| 38C     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | EP        |                                   |      |      |      |      |      |
| 39A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 8                                 | 90   | 98   | 82   | 95   | 85   |
| 39B     | LACTOFEN             | 2.00 E   | .200 LB/AC  | EP        |                                   |      |      |      |      |      |
| 39C     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | EP        |                                   |      |      |      |      |      |
| 40A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 5                                 | 90   | 95   | 95   | 90   | 90   |
| 40B     | LACTOFEN             | 2.00 E   | .150 LB/AC  | EP        |                                   |      |      |      |      |      |
| 40C     | BENTAZON             | 4.00 E   | .380 LB/AC  | EP        |                                   |      |      |      |      |      |
| 40D     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | EP        |                                   |      |      |      |      |      |
| 41A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 2                                 | 98   | 100  | 95   | 95   | 92   |
| 41B     | LACTOFEN             | 2.00 E   | .150 LB/AC  | EP        |                                   |      |      |      |      |      |
| 41C     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | EP        |                                   |      |      |      |      |      |
| 41D     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | EP        |                                   |      |      |      |      |      |
| 42A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 5                                 | 85   | 98   | 90   | 95   | 95   |
| 42B     | LACTOFEN             | 2.00 E   | .150 LB/AC  | EP        |                                   |      |      |      |      |      |
| 42C     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                   |      |      |      |      |      |
| 42D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                   |      |      |      |      |      |
| 43A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 0                                 | 92   | 75   | 90   | 70   | 72   |
| 43B     | CHLORIMURON + METRIB | 75.00 DF | .230 LB/AC  | PPI       |                                   |      |      |      |      |      |
| 44A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 0                                 | 98   | 90   | 100  | 85   | 82   |
| 44B     | IMAZETHAPYR          | 2.00 AS  | .090 LB/AC  | PPI       |                                   |      |      |      |      |      |
| 45A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 0                                 | 100  | 100  | 95   | 98   | 92   |
| 45B     | IMAZETHAPYR          | 2.00 AS  | .060 LB/AC  | EP        |                                   |      |      |      |      |      |
| 45C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                                   |      |      |      |      |      |
| 46A     | METRIBUZIN 1         | 4.00 F   | .380 LB/AC  | PPI       | 0                                 | 98   | 100  | 98   | 30   | 30   |
| 46B     | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       |                                   |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7013 SOYBEAN PREPLANT INCORPORATED

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | ----- 8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|-----------------------------------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                              | GIFT | JIWE | COLQ | ILMG | TAMG |
| 47A     | METRIBUZIN 1         | 4.00 F   | .500 LB/AC  | PPI       | 0                                 | 75   | 98   | 100  | 40   | 40   |
| 47B     | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       |                                   |      |      |      |      |      |
| 48A     | PENDIMETHALIN        | 4.00 E   | .750 LB/AC  | PPI       | 2                                 | 92   | 80   | 95   | 80   | 82   |
| 48B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PPI       |                                   |      |      |      |      |      |
| 49A     | PENDIMETHALIN        | 4.00 E   | .750 LB/AC  | PPI       | 0                                 | 92   | 100  | 88   | 82   | 80   |
| 49B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | EP        |                                   |      |      |      |      |      |
| 49C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                                   |      |      |      |      |      |
| 50A     | ETHALFLURALIN        | 3.00 E   | .940 LB/AC  | PPI       | 0                                 | 95   | 100  | 92   | 80   | 80   |
| 50B     | IMAZAQUIN            | 1.50 AS  | .060 LB/AC  | EP        |                                   |      |      |      |      |      |
| 50C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                                   |      |      |      |      |      |
| 51A     | ETHALFLURALIN        | 3.00 E   | .940 LB/AC  | PPI       | 0                                 | 88   | 68   | 98   | 85   | 80   |
| 51B     | CHLORIMURON + METRIB | 75.00 DF | .230 LB/AC  | PPI       |                                   |      |      |      |      |      |
| 52A     | ETHALFLURALIN        | 3.00 E   | .940 LB/AC  | PPI       | 0                                 | 98   | 98   | 98   | 90   | 85   |
| 52B     | IMAZETHAPYR          | 2.00 AS  | .090 LB/AC  | PPI       |                                   |      |      |      |      |      |
| 53A     | ETHALFLURALIN        | 3.00 E   | .940 LB/AC  | PPI       | 5                                 | 100  | 100  | 98   | 98   | 90   |
| 53B     | IMAZETHAPYR          | 2.00 AS  | .060 LB/AC  | EP        |                                   |      |      |      |      |      |
| 53C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                                   |      |      |      |      |      |
| 54A     | ETHALFLURALIN        | 3.00 E   | .940 LB/AC  | PPI       | 0                                 | 95   | 85   | 100  | 90   | 90   |
| 54B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PPI       |                                   |      |      |      |      |      |
| 55      | FMC 57020            | 4.00 EC  | 1.000 LB/AC | PPI       | 0                                 | 100  | 92   | 98   | 22   | 20   |
| 56A     | FMC 57020            | 4.00 EC  | 1.000 LB/AC | PPI       | 0                                 | 100  | 98   | 98   | 25   | 25   |
| 56B     | METRIBUZIN 1         | 4.00 F   | .190 LB/AC  | PPI       |                                   |      |      |      |      |      |
| 57A     | FMC 57020            | 4.00 EC  | 1.000 LB/AC | PPI       | 0                                 | 100  | 100  | 100  | 30   | 22   |
| 57B     | METRIBUZIN 1         | 4.00 F   | .380 LB/AC  | PPI       |                                   |      |      |      |      |      |
| 58A     | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       | 0                                 | 100  | 98   | 98   | 52   | 52   |
| 58B     | IMAZAQUIN            | 1.50 AS  | .060 LB/AC  | PPI       |                                   |      |      |      |      |      |
| 59A     | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       | 0                                 | 98   | 90   | 100  | 78   | 78   |
| 59B     | IMAZAQUIN            | 1.50 AS  | .090 LB/AC  | PPI       |                                   |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7013 SOYBEAN PREPLANT INCORPORATED

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | ----- 8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|-----------------------------------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                              | GIFT | JIWE | COLQ | ILMG | TAMG |
| 60A     | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       | 2                                 | 100  | 92   | 100  | 58   | 58   |
| 60B     | CHLORIMURON + METRIB | 75.00 DF | .380 LB/AC  | PPI       |                                   |      |      |      |      |      |
| 61A     | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       | 2                                 | 100  | 95   | 100  | 60   | 58   |
| 61B     | IMAZETHAPYR          | 2.00 AS  | .060 LB/AC  | PPI       |                                   |      |      |      |      |      |
| 62A     | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       | 2                                 | 95   | 100  | 90   | 55   | 45   |
| 62B     | LACTOFEN             | 2.00 E   | .200 LB/AC  | EP        |                                   |      |      |      |      |      |
| 63      | IMAZETHAPYR          | 2.00 AS  | .063 LB/AC  | PPI       | 0                                 | 88   | 62   | 92   | 60   | 62   |
| 64      | IMAZETHAPYR          | 2.00 AS  | .078 LB/AC  | PPI       | 0                                 | 90   | 82   | 88   | 70   | 70   |
| 65      | IMAZETHAPYR          | 2.00 AS  | .093 LB/AC  | PPI       | 0                                 | 92   | 85   | 85   | 75   | 75   |
| 66A     | IMAZETHAPYR          | 2.00 AS  | .063 LB/AC  | PPI       | 0                                 | 92   | 95   | 98   | 85   | 88   |
| 66B     | PENDIMETHALIN        | 4.00 E   | .750 LB/AC  | PPI       |                                   |      |      |      |      |      |
| 67A     | IMAZETHAPYR          | 2.00 AS  | .063 LB/AC  | PPI       | 0                                 | 92   | 88   | 90   | 80   | 78   |
| 67B     | PENDIMETHALIN        | 4.00 E   | 1.000 LB/AC | PPI       |                                   |      |      |      |      |      |
| 68      | TREFLAN + METRIBUZIN | 4.00 EC  | 1.500 LB/AC | PPI       | 0                                 | 90   | 75   | 92   | 80   | 82   |
| 69A     | TREFLAN + METRIBUZIN | 4.00 EC  | 1.125 LB/AC | PPI       | 0                                 | 92   | 90   | 95   | 82   | 80   |
| 69B     | IMAZAQUIN            | 1.50 AS  | .060 LB/AC  | PPI       |                                   |      |      |      |      |      |
| 70A     | TREFLAN + METRIBUZIN | 4.00 EC  | 1.125 LB/AC | PPI       | 0                                 | 90   | 78   | 98   | 75   | 75   |
| 70B     | IMAZAQUIN            | 1.50 AS  | .090 LB/AC  | PPI       |                                   |      |      |      |      |      |
| 71A     | TREFLAN + METRIBUZIN | 4.00 EC  | 1.125 LB/AC | PPI       | 0                                 | 95   | 88   | 100  | 58   | 52   |
| 71B     | FMC 57020            | 4.00 EC  | .250 LB/AC  | PPI       |                                   |      |      |      |      |      |
| 72      | TRIFLUR. + FMC 57020 | 5.25 EC  | 1.640 LB/AC | PPI       | 0                                 | 98   | 90   | 95   | 80   | 80   |
| 73A     | TRIFLUR. + FMC 57020 | 5.25 EC  | 1.310 LB/AC | PPI       | 0                                 | 95   | 95   | 100  | 65   | 62   |
| 73B     | METRIBUZIN           | 75.00 DF | .380 LB/AC  | PPI       |                                   |      |      |      |      |      |
| 74A     | TRIFLUR. + FMC 57020 | 5.25 EC  | 1.310 LB/AC | PPI       | 0                                 | 100  | 98   | 98   | 80   | 82   |
| 74B     | CHLORIMURON + METRIB | 75.00 DF | .230 LB/AC  | PPI       |                                   |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7013 SOYBEAN PREPLANT INCORPORATED

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA | RATE        | APPL<br>METH | ----- 8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |
|------------|------------------------|---------|-------------|--------------|-----------------------------------|------|------|------|------|------|
|            |                        |         |             |              | CRIN                              | GIFT | JIWE | COLQ | ILMG | TAMG |
| 75A        | TRIFLUR. + FMC 57020   | 5.25 EC | 1.310 LB/AC | PPI          | 0                                 | 98   | 92   | 100  | 80   | 75   |
| 75B        | IMAZAQUIN              | 1.50 AS | .060 LB/AC  | PPI          |                                   |      |      |      |      |      |
| 76A        | METALACHLOR + METRIB   | 8.00 EC | 2.750 LB/AC | PPI          | 0                                 | 98   | 100  | 100  | 45   | 45   |
| 76B        | FMC 57020              | 4.00 EC | .250 LB/AC  | PPI          |                                   |      |      |      |      |      |
| 77         | PENDAMETHALIN + IMAZ   | 2.33 EC | .870 LB/AC  | PPI          | 0                                 | 95   | 90   | 95   | 68   | 68   |
| 78         | CHECK (CULTIVATED)     | .00 CK  | .000        |              | 0                                 | 100  | 100  | 100  | 100  | 100  |
|            |                        |         | LSD(05):    |              | 3                                 | 10   | 15   | 9    | 15   | 15   |

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

FERTILIZATION (LB/AC): 60 N, 60 P, 60 K

PH: 6.4 O.M.: 3.4%

DATE PLANTED: MAY 11

DATE TREATED: PPI MAY 11

VARIETY: WILLIAMS 82

EP MAY 26

MP JUNE 3

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7061 SOYBEAN PREPLANT INCORPORATED II

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA  | RATE        | APPL<br>METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|------------|------------------------|----------|-------------|--------------|---------------------------------|------|------|------|------|------|------|------|
|            |                        |          |             |              | GRAS                            | BRLE | CRIN | GIFT | COCB | JIWE | ILMG | VELE |
| 1A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PPI          | 97                              | 63   | 0    | 97   | 83   | 70   | 30   | 73   |
| 1B         | METRIBUZIN 1           | 4.00 F   | .500 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |
| 2A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PPI          | 90                              | 87   | 0    | 90   | 90   | 83   | 80   | 90   |
| 2B         | CHLORIMURON + METRIB   | 75.00 DF | .500 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |
| 3A         | ALACHLOR               | 4.00 MT  | 2.000 LB/AC | PPI          | 97                              | 60   | 0    | 97   | 67   | 77   | 37   | 93   |
| 3B         | FMC 57020              | 4.00 EC  | .500 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |
| 4A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PPI          | 97                              | 53   | 0    | 97   | 53   | 57   | 37   | 80   |
| 4B         | FMC 57020              | 4.00 EC  | .380 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |
| 5A         | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PPI          | 100                             | 70   | 3    | 100  | 87   | 70   | 53   | 93   |
| 5B         | FMC 57020              | 4.00 EC  | .750 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |
| 6A         | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PPI          | 97                              | 77   | 3    | 97   | 77   | 90   | 77   | 90   |
| 6B         | IMAZETHAPYR            | 2.00 AS  | .063 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |
| 7A         | METOLACHLOR            | 8.00 E   | 2.500 LB/AC | PPI          | 97                              | 73   | 7    | 97   | 83   | 77   | 70   | 93   |
| 7B         | METRIBUZIN 1           | 4.00 F   | .420 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |
| 7C         | IMAZAQUIN              | 1.50 AS  | .060 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |
| 8A         | METOLACHLOR            | 8.00 E   | 2.500 LB/AC | PPI          | 97                              | 80   | 3    | 97   | 83   | 93   | 77   | 87   |
| 8B         | METRIBUZIN 1           | 4.00 F   | .420 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |
| 8C         | IMAZAQUIN              | 1.50 AS  | .090 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |
| 9A         | METOLACHLOR            | 8.00 E   | 2.500 LB/AC | PPI          | 97                              | 67   | 0    | 97   | 80   | 80   | 50   | 97   |
| 9B         | METRIBUZIN 1           | 4.00 F   | .420 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |
| 9C         | FMC 57020              | 4.00 EC  | .250 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |
| 10A        | TRIFLURALIN            | 4.00 E   | 1.000 LB/AC | PPI          | 97                              | 73   | 0    | 97   | 83   | 73   | 80   | 70   |
| 10B        | METRIBUZIN 1           | 4.00 F   | .500 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |
| 11A        | TRIFLURALIN            | 4.00 E   | 1.000 LB/AC | PPI          | 93                              | 73   | 0    | 93   | 73   | 63   | 80   | 83   |
| 11B        | METRIBUZIN 1           | 4.00 F   | .380 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |
| 11C        | IMAZAQUIN              | 1.50 AS  | .063 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |
| 12A        | TRIFLURALIN            | 4.00 E   | 1.000 LB/AC | PPI          | 97                              | 77   | 3    | 97   | 77   | 70   | 80   | 97   |
| 12B        | METRIBUZIN 1           | 4.00 F   | .380 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |
| 12C        | IMAZAQUIN              | 1.50 AS  | .096 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |
| 13A        | TRIFLURALIN            | 4.00 E   | 1.000 LB/AC | PPI          | 93                              | 63   | 0    | 93   | 80   | 60   | 80   | 90   |
| 13B        | METRIBUZIN 1           | 4.00 F   | .400 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |
| 13C        | FMC 57020              | 4.00 EC  | .250 LB/AC  | PPI          |                                 |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7061 SOYBEAN PREPLANT INCORPORATED II

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                      |          |             |           | GRAS                            | BRLE | CRIN | GIFT | COCB | JIWE | IIMG | VELE |
| 14A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 93                              | 93   | 7    | 93   | 100  | 97   | 93   | 100  |
| 14B     | METRIBUZIN 2         | 75.00 DF | .280 LB/AC  | PPI       |                                 |      |      |      |      |      |      |      |
| 14C     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 14D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 15A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 93                              | 83   | 0    | 93   | 87   | 87   | 90   | 87   |
| 15B     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PPI       |                                 |      |      |      |      |      |      |      |
| 16A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 87                              | 83   | 7    | 87   | 97   | 83   | 80   | 90   |
| 16B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PPI       |                                 |      |      |      |      |      |      |      |
| 17A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 93                              | 70   | 0    | 93   | 77   | 57   | 83   | 73   |
| 17B     | DPX 8259             | 60.00 DF | .600 LB/AC  | PPI       |                                 |      |      |      |      |      |      |      |
| 18A.    | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 97                              | 90   | 10   | 97   | 87   | 93   | 90   | 90   |
| 18B     | LACTOFEN             | 2.00 E   | .200 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 19A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 83                              | 90   | 20   | 83   | 93   | 100  | 97   | 90   |
| 19B     | BENTAZON             | 4.00 E   | .330 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 19C     | ACIFLUORFEN          | 2.00 L   | .170 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 19D     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 20A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 93                              | 90   | 17   | 93   | 90   | 90   | 90   | 100  |
| 20B     | BENTAZON             | 4.00 E   | .500 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 20C     | ACIFLUORFEN          | 2.00 L   | .250 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 20D     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 21A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 90                              | 97   | 23   | 90   | 100  | 100  | 100  | 97   |
| 21B     | BENTAZON             | 4.00 E   | .500 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 21C     | ACIFLUORFEN          | 2.00 L   | .250 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 21D     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 22A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 93                              | 97   | 33   | 93   | 100  | 97   | 100  | 100  |
| 22B     | BENTAZON + ACIFLUORF | 4.00 E   | 1.500 LB/AC | MP        |                                 |      |      |      |      |      |      |      |
| 22C     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 23A     | PENDIMETHALIN        | 4.00 E   | .750 LB/AC  | PPI       | 93                              | 90   | 0    | 93   | 87   | 90   | 87   | 90   |
| 23B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PPI       |                                 |      |      |      |      |      |      |      |
| 24A     | PENDIMETHALIN        | 4.00 E   | .750 LB/AC  | PPI       | 97                              | 87   | 7    | 97   | 100  | 100  | 93   | 80   |
| 24B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 24C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |      |
| 25A     | ETHALFLURALIN        | 3.00 E   | .940 LB/AC  | PPI       | 100                             | 87   | 3    | 100  | 83   | 93   | 87   | 97   |
| 25B     | IMAZETHAPYR          | 2.00 AS  | .090 LB/AC  | PPI       |                                 |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7061 SOYBEAN PREPLANT INCORPORATED II

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE     | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|----------------------|----------|----------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                      |          |          |           | GRAS                            | BRLE | CRIN | GIFT | COCB | JIWE | ILMG | VELE |
| 26A     | ETHALFLURALIN        | 3.00 E   | .940     | LB/AC PPI | 100                             | 97   | 13   | 100  | 100  | 100  | 100  | 97   |
| 26B     | IMAZETHAPYR          | 2.00 AS  | .060     | LB/AC EP  |                                 |      |      |      |      |      |      |      |
| 26C     | X-77 (SURFACTANT)    | .50 WA   | .250     | % EP      |                                 |      |      |      |      |      |      |      |
| 27A     | FMC 57020            | 4.00 EC  | .750     | LB/AC PPI | 97                              | 80   | 3    | 97   | 90   | 80   | 63   | 93   |
| 27B     | IMAZAQUIN            | 1.50 AS  | .060     | LB/AC PPI |                                 |      |      |      |      |      |      |      |
| 28A     | FMC 57020            | 4.00 EC  | .750     | LB/AC PPI | 97                              | 73   | 0    | 97   | 87   | 83   | 63   | 97   |
| 28B     | IMAZAQUIN            | 1.50 AS  | .090     | LB/AC PPI |                                 |      |      |      |      |      |      |      |
| 29A     | FMC 57020            | 4.00 EC  | .750     | LB/AC PPI | 93                              | 77   | 0    | 93   | 90   | 77   | 80   | 97   |
| 29B     | CHLORIMURON + METRIB | 75.00 DF | .380     | LB/AC PPI |                                 |      |      |      |      |      |      |      |
| 30      | IMAZETHAPYR          | 2.00 AS  | .063     | LB/AC PPI | 90                              | 70   | 0    | 90   | 87   | 87   | 47   | 83   |
| 31      | IMAZETHAPYR          | 2.00 AS  | .078     | LB/AC PPI | 90                              | 77   | 3    | 90   | 77   | 70   | 70   | 80   |
| 32      | IMAZETHAPYR          | 2.00 AS  | .093     | LB/AC PPI | 90                              | 80   | 0    | 90   | 90   | 87   | 70   | 90   |
| 33A     | IMAZETHAPYR          | 2.00 AS  | .063     | LB/AC PPI | 93                              | 77   | 0    | 93   | 80   | 67   | 90   | 90   |
| 33B     | PENDIMETHALIN        | 4.00 E   | 1.000    | LB/AC PPI |                                 |      |      |      |      |      |      |      |
| 34      | TREFLAN + METRIBUZIN | 4.00 EC  | 1.500    | LB/AC PPI | 97                              | 63   | 0    | 97   | 80   | 37   | 70   | 83   |
| 35      | TRIFLUR. + FMC 57020 | 5.25 EC  | 1.640    | LB/AC PPI | 97                              | 77   | 0    | 97   | 83   | 80   | 80   | 90   |
| 36A     | TRIFLUR. + FMC 57020 | 5.25 EC  | 1.310    | LB/AC PPI | 93                              | 77   | 3    | 93   | 77   | 73   | 80   | 93   |
| 36B     | IMAZAQUIN            | 1.50 AS  | .060     | LB/AC PPI |                                 |      |      |      |      |      |      |      |
| 37A     | METALACHLOR + METRIB | 8.00 EC  | 2.750    | LB/AC PPI | 100                             | 63   | 0    | 100  | 83   | 83   | 23   | 97   |
| 37B     | FMC 57020            | 4.00 EC  | .250     | LB/AC PPI |                                 |      |      |      |      |      |      |      |
| 38      | PENDAMETHALIN + IMAZ | 2.33 EC  | .870     | LB/AC PPI | 90                              | 83   | 3    | 90   | 90   | 73   | 90   | 93   |
|         |                      |          | LSD(05): |           | 9                               | 17   | 7    | 9    | 21   | 28   | 24   | 13   |

LOCATION: SPINDLETOP FARM  
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K  
 DATE PLANTED: MAY 13  
 VARIETY: WILLIAMS 82

SOIL TYPE: MAURY SILT LOAM  
 PH: 6.5 O.M.: 3.6%  
 DATE TREATED: PPI MAY 13  
 EP MAY 26  
 MP JUNE 1

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7061 SOYBEAN PREPLANT INCORPORATED II

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA  | RATE        | APPL<br>METH | ----8 WEEKS AFTER APPLIED -- |      |      |      |      |
|------------|------------------------|----------|-------------|--------------|------------------------------|------|------|------|------|
|            |                        |          |             |              | CRIN                         | GIFT | COCB | JIWE | VELE |
| 1A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PPI          | 0                            | 97   | 77   | 67   | 80   |
| 1B         | METRIBUZIN 1           | 4.00 F   | .500 LB/AC  | PPI          |                              |      |      |      |      |
| 2A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PPI          | 0                            | 90   | 87   | 50   | 90   |
| 2B         | CHLORIMURON + METRIB   | 75.00 DF | .500 LB/AC  | PPI          |                              |      |      |      |      |
| 3A         | ALACHLOR               | 4.00 MT  | 2.000 LB/AC | PPI          | 0                            | 97   | 67   | 57   | 93   |
| 3B         | FMC 57020              | 4.00 EC  | .500 LB/AC  | PPI          |                              |      |      |      |      |
| 4A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PPI          | 0                            | 97   | 50   | 27   | 80   |
| 4B         | FMC 57020              | 4.00 EC  | .380 LB/AC  | PPI          |                              |      |      |      |      |
| 5A         | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PPI          | 0                            | 100  | 87   | 77   | 97   |
| 5B         | FMC 57020              | 4.00 EC  | .750 LB/AC  | PPI          |                              |      |      |      |      |
| 6A         | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PPI          | 0                            | 97   | 67   | 83   | 93   |
| 6B         | IMAZETHAPYR            | 2.00 AS  | .063 LB/AC  | PPI          |                              |      |      |      |      |
| 7A         | METOLACHLOR            | 8.00 E   | 2.500 LB/AC | PPI          | 0                            | 97   | 87   | 40   | 93   |
| 7B         | METRIBUZIN 1           | 4.00 F   | .420 LB/AC  | PPI          |                              |      |      |      |      |
| 7C         | IMAZAQUIN              | 1.50 AS  | .060 LB/AC  | PPI          |                              |      |      |      |      |
| 8A         | METOLACHLOR            | 8.00 E   | 2.500 LB/AC | PPI          | 0                            | 97   | 83   | 70   | 90   |
| 8B         | METRIBUZIN 1           | 4.00 F   | .420 LB/AC  | PPI          |                              |      |      |      |      |
| 8C         | IMAZAQUIN              | 1.50 AS  | .090 LB/AC  | PPI          |                              |      |      |      |      |
| 9A         | METOLACHLOR            | 8.00 E   | 2.500 LB/AC | PPI          | 0                            | 90   | 80   | 63   | 97   |
| 9B         | METRIBUZIN 1           | 4.00 F   | .420 LB/AC  | PPI          |                              |      |      |      |      |
| 9C         | FMC 57020              | 4.00 EC  | .250 LB/AC  | PPI          |                              |      |      |      |      |
| 10A        | TRIFLURALIN            | 4.00 E   | 1.000 LB/AC | PPI          | 0                            | 97   | 83   | 47   | 73   |
| 10B        | METRIBUZIN 1           | 4.00 F   | .500 LB/AC  | PPI          |                              |      |      |      |      |
| 11A        | TRIFLURALIN            | 4.00 E   | 1.000 LB/AC | PPI          | 0                            | 93   | 67   | 37   | 83   |
| 11B        | METRIBUZIN 1           | 4.00 F   | .380 LB/AC  | PPI          |                              |      |      |      |      |
| 11C        | IMAZAQUIN              | 1.50 AS  | .063 LB/AC  | PPI          |                              |      |      |      |      |
| 12A        | TRIFLURALIN            | 4.00 E   | 1.000 LB/AC | PPI          | 0                            | 97   | 77   | 43   | 97   |
| 12B        | METRIBUZIN 1           | 4.00 F   | .380 LB/AC  | PPI          |                              |      |      |      |      |
| 12C        | IMAZAQUIN              | 1.50 AS  | .096 LB/AC  | PPI          |                              |      |      |      |      |
| 13A        | TRIFLURALIN            | 4.00 E   | 1.000 LB/AC | PPI          | 0                            | 93   | 77   | 37   | 90   |
| 13B        | METRIBUZIN 1           | 4.00 F   | .400 LB/AC  | PPI          |                              |      |      |      |      |
| 13C        | FMC 57020              | 4.00 EC  | .250 LB/AC  | PPI          |                              |      |      |      |      |



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7061 SOYBEAN PREPLANT INCORPORATED II

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | ----8 WEEKS AFTER APPLIED -- |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|------------------------------|------|------|------|------|
|         |                      |          |             |           | CRIN                         | GIFT | COCB | JIWE | VELE |
| 14A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 0                            | 87   | 100  | 93   | 100  |
| 14B     | METRIBUZIN 2         | 75.00 DF | .280 LB/AC  | PPI       |                              |      |      |      |      |
| 14C     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                              |      |      |      |      |
| 14D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                              |      |      |      |      |
| 15A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 0                            | 77   | 83   | 80   | 87   |
| 15B     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PPI       |                              |      |      |      |      |
| 16A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 0                            | 83   | 93   | 60   | 90   |
| 16B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PPI       |                              |      |      |      |      |
| 17A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 0                            | 93   | 77   | 23   | 80   |
| 17B     | DPX 8259             | 60.00 DF | .600 LB/AC  | PPI       |                              |      |      |      |      |
| 18A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 0                            | 97   | 87   | 80   | 90   |
| 18B     | LACTOFEN             | 2.00 E   | .200 LB/AC  | EP        |                              |      |      |      |      |
| 19A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 0                            | 70   | 93   | 90   | 90   |
| 19B     | BENTAZON             | 4.00 E   | .330 LB/AC  | MP        |                              |      |      |      |      |
| 19C     | ACIFLUORFEN          | 2.00 L   | .170 LB/AC  | MP        |                              |      |      |      |      |
| 19D     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | MP        |                              |      |      |      |      |
| 20A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 0                            | 93   | 90   | 67   | 100  |
| 20B     | BENTAZON             | 4.00 E   | .500 LB/AC  | EP        |                              |      |      |      |      |
| 20C     | ACIFLUORFEN          | 2.00 L   | .250 LB/AC  | EP        |                              |      |      |      |      |
| 20D     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | EP        |                              |      |      |      |      |
| 21A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 0                            | 90   | 100  | 80   | 97   |
| 21B     | BENTAZON             | 4.00 E   | .500 LB/AC  | MP        |                              |      |      |      |      |
| 21C     | ACIFLUORFEN          | 2.00 L   | .250 LB/AC  | MP        |                              |      |      |      |      |
| 21D     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | MP        |                              |      |      |      |      |
| 22A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 0                            | 93   | 97   | 90   | 100  |
| 22B     | BENTAZON + ACIFLUORF | 4.00 E   | 1.500 LB/AC | MP        |                              |      |      |      |      |
| 22C     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | MP        |                              |      |      |      |      |
| 23A     | PENDIMETHALIN        | 4.00 E   | .750 LB/AC  | PPI       | 0                            | 93   | 80   | 70   | 90   |
| 23B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PPI       |                              |      |      |      |      |
| 24A     | PENDIMETHALIN        | 4.00 E   | .750 LB/AC  | PPI       | 0                            | 100  | 100  | 100  | 83   |
| 24B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | EP        |                              |      |      |      |      |
| 24C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                              |      |      |      |      |
| 25A     | ETHALFLURALIN        | 3.00 E   | .940 LB/AC  | PPI       | 0                            | 100  | 67   | 87   | 97   |
| 25B     | IMAZETHAPYR          | 2.00 AS  | .090 LB/AC  | PPI       |                              |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7061 SOYBEAN PREPLANT INCORPORATED II

| TRT NO.   | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | ----8 WEEKS AFTER APPLIED -- |      |      |      |      |
|-----------|----------------------|----------|-------------|-----------|------------------------------|------|------|------|------|
|           |                      |          |             |           | CRIN                         | GIFT | COCB | JIWE | VELE |
| 26A       | ETHALFLURALIN        | 3.00 E   | .940 LB/AC  | PPI       | 0                            | 100  | 93   | 97   | 97   |
| 26B       | IMAZETHAPYR          | 2.00 AS  | .060 LB/AC  | EP        |                              |      |      |      |      |
| 26C       | X-77 (SURFACTANT)    | .50 WA   | .250 †      | EP        |                              |      |      |      |      |
| 27A       | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       | 0                            | 97   | 90   | 60   | 93   |
| 27B       | IMAZAQUIN            | 1.50 AS  | .060 LB/AC  | PPI       |                              |      |      |      |      |
| 28A       | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       | 0                            | 97   | 80   | 67   | 97   |
| 28B       | IMAZAQUIN            | 1.50 AS  | .090 LB/AC  | PPI       |                              |      |      |      |      |
| 29A       | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       | 0                            | 93   | 87   | 33   | 97   |
| 29B       | CHLORIMURON + METRIB | 75.00 DF | .380 LB/AC  | PPI       |                              |      |      |      |      |
| 30        | IMAZETHAPYR          | 2.00 AS  | .063 LB/AC  | PPI       | 0                            | 90   | 87   | 80   | 83   |
| 31        | IMAZETHAPYR          | 2.00 AS  | .078 LB/AC  | PPI       | 0                            | 90   | 77   | 63   | 80   |
| 32        | IMAZETHAPYR          | 2.00 AS  | .093 LB/AC  | PPI       | 0                            | 93   | 83   | 83   | 93   |
| 33A       | IMAZETHAPYR          | 2.00 AS  | .063 LB/AC  | PPI       | 0                            | 97   | 73   | 30   | 90   |
| 33B       | PENDIMETHALIN        | 4.00 E   | 1.000 LB/AC | PPI       |                              |      |      |      |      |
| 34        | TREFLAN + METRIBUZIN | 4.00 EC  | 1.500 LB/AC | PPI       | 0                            | 97   | 80   | 17   | 87   |
| 35        | TRIFLUR. + FMC 57020 | 5.25 EC  | 1.640 LB/AC | PPI       | 0                            | 97   | 73   | 47   | 93   |
| 36A       | TRIFLUR. + FMC 57020 | 5.25 EC  | 1.310 LB/AC | PPI       | 0                            | 93   | 77   | 43   | 93   |
| 36B       | IMAZAQUIN            | 1.50 AS  | .060 LB/AC  | PPI       |                              |      |      |      |      |
| 37A       | METALACHLOR + METRIB | 8.00 EC  | 2.750 LB/AC | PPI       | 0                            | 100  | 80   | 63   | 97   |
| 37B       | FMC 57020            | 4.00 EC  | .250 LB/AC  | PPI       |                              |      |      |      |      |
| 38        | PENDAMETHALIN + IMAZ | 2.33 EC  | .870 LB/AC  | PPI       | 0                            | 90   | 90   | 40   | 93   |
| LSD (05): |                      |          |             |           | 0                            | 12   | 24   | 38   | 11   |

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

FERTILIZATION (LB/AC): 60 N, 60 P, 60 K

PH: 6.5 O.M.: 3.6%

DATE PLANTED: MAY 13

DATE TREATED: PPI MAY 13

VARIETY: WILLIAMS 82

EP MAY 26

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7014 SOYBEAN POSTEMERGENCE

| TRT NO. | HERBICIDE TREATMENT  | FORMULA | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED ----- |      |      |      | ---8 WEEKS AFTER APPL |      |      |      |      |      |      |
|---------|----------------------|---------|-------------|-----------|----------------------------------|------|------|------|-----------------------|------|------|------|------|------|------|
|         |                      |         |             |           | GRAS                             | BRLE | CRIN | GIFT | JIWE                  | COLO | TAMG | CRIN | JIWE | COLO | TAMG |
| 1A      | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 85                               | 65   | 0    | 85   | 92                    | 82   | 65   | 0    | 85   | 75   | 58   |
| 1B      | ACIFLUORFEN 2        | 2.00 L  | .250 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 1C      | TRITON AG 98 SURFACT | .00 WA  | .250 %      | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 2A      | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 98                               | 70   | 25   | 98   | 92                    | 62   | 80   | 0    | 85   | 55   | 70   |
| 2B      | ACIFLUORFEN 2        | 2.00 L  | .380 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 2C      | TRITON AG 98 SURFACT | .00 WA  | .250 %      | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 3A      | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 98                               | 58   | 0    | 98   | 100                   | 32   | 62   | 0    | 90   | 28   | 55   |
| 3B      | ACIFLUORFEN 2        | 2.00 L  | .250 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 3C      | IMAZAQUIN            | 1.50 AS | .030 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 3D      | TRITON AG 98 SURFACT | .00 WA  | .250 %      | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 4A      | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 100                              | 60   | 0    | 100  | 100                   | 22   | 70   | 0    | 90   | 25   | 60   |
| 4B      | ACIFLUORFEN 2        | 2.00 L  | .250 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 4C      | IMAZAQUIN            | 1.50 AS | .060 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 4D      | TRITON AG 98 SURFACT | .00 WA  | .250 %      | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 5A      | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 100                              | 60   | 0    | 100  | 100                   | 35   | 70   | 0    | 90   | 35   | 60   |
| 5B      | ACIFLUORFEN 2        | 2.00 L  | .250 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 5C      | IMAZAQUIN            | 1.50 AS | .090 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 5D      | TRITON AG 98 SURFACT | .00 WA  | .250 %      | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 6A      | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 100                              | 62   | 0    | 100  | 100                   | 50   | 65   | 0    | 90   | 45   | 58   |
| 6B      | ACIFLUORFEN 2        | 2.00 L  | .250 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 6C      | IMAZAQUIN            | 1.50 AS | .125 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 6D      | TRITON AG 98 SURFACT | .00 WA  | .250 %      | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 7A      | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 100                              | 65   | 2    | 100  | 75                    | 55   | 75   | 0    | 90   | 30   | 65   |
| 7B      | ACIFLUORFEN 2        | 2.00 L  | .380 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 7C      | IMAZAQUIN            | 1.50 AS | .060 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 7D      | TRITON AG 98 SURFACT | .00 WA  | .250 %      | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 8A      | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 100                              | 60   | 0    | 100  | 100                   | 38   | 68   | 0    | 90   | 35   | 58   |
| 8B      | ACIFLUORFEN 2        | 2.00 L  | .380 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 8C      | IMAZAQUIN            | 1.50 AS | .090 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 8D      | TRITON AG 98 SURFACT | .00 WA  | .250 %      | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 9A      | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 100                              | 70   | 2    | 100  | 100                   | 38   | 80   | 0    | 90   | 35   | 70   |
| 9B      | ACIFLUORFEN 2        | 2.00 L  | .380 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 9C      | IMAZAQUIN            | 1.50 AS | .125 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 9D      | TRITON AG 98 SURFACT | .00 WA  | .250 %      | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7014 SOYBEAN POSTEMERGENCE

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED ----- |      |      |      | ----8 WEEKS AFTER APPL |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|----------------------------------|------|------|------|------------------------|------|------|------|------|------|------|
|         |                      |          |             |           | GRAS                             | BRLE | CRIN | GIFT | JIWE                   | COLO | TAMG | CRIN | JIWE | COLO | TAMG |
| 10A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 98                               | 70   | 0    | 98   | 98                     | 82   | 72   | 0    | 88   | 68   | 62   |
| 10B     | IMAZAQUIN            | 1.50 AS  | .060 LB/AC  | PRE       |                                  |      |      |      |                        |      |      |      |      |      |      |
| 10C     | ACIFLUORFEN 2        | 2.00 L   | .250 LB/AC  | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |
| 10D     | TRITON AG 98 SURFACT | .00 WA   | .250 %      | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |
| 11A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100                              | 65   | 0    | 100  | 100                    | 60   | 72   | 0    | 90   | 55   | 65   |
| 11B     | IMAZAQUIN            | 1.50 AS  | .060 LB/AC  | PRE       |                                  |      |      |      |                        |      |      |      |      |      |      |
| 11C     | ACIFLUORFEN 2        | 2.00 L   | .380 LB/AC  | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |
| 11D     | TRITON AG 98 SURFACT | .00 WA   | .250 %      | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |
| 12A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 98                               | 80   | 0    | 98   | 100                    | 82   | 78   | 0    | 90   | 72   | 70   |
| 12B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                  |      |      |      |                        |      |      |      |      |      |      |
| 12C     | ACIFLUORFEN 2        | 2.00 L   | .250 LB/AC  | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |
| 12D     | TRITON AG 98 SURFACT | .00 WA   | .250 %      | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |
| 13A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 95                               | 90   | 0    | 95   | 100                    | 90   | 88   | 0    | 90   | 80   | 78   |
| 13B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                  |      |      |      |                        |      |      |      |      |      |      |
| 13C     | ACIFLUORFEN 2        | 2.00 L   | .380 LB/AC  | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |
| 13D     | TRITON AG 98 SURFACT | .00 WA   | .250 %      | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |
| 14A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100                              | 52   | 0    | 100  | 98                     | 100  | 38   | 0    | 88   | 78   | 35   |
| 14B     | BENAZOLIN            | 4.00 F   | .380 LB/AC  | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |
| 14C     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |
| 15A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100                              | 45   | 0    | 100  | 100                    | 100  | 35   | 0    | 80   | 90   | 35   |
| 15B     | BENAZOLIN            | 4.00 F   | .380 LB/AC  | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |
| 15C     | VARIQUAT             | .50 WA   | .500 %      | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |
| 16A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 92                               | 75   | 0    | 92   | 95                     | 100  | 68   | 0    | 88   | 90   | 62   |
| 16B     | BENAZOLIN            | 4.00 F   | .380 LB/AC  | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |
| 16C     | ACIFLUORFEN          | 2.00 L   | .250 LB/AC  | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |
| 16D     | TRITON AG 98 SURFACT | .00 WA   | .125 %      | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |
| 17A     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       | 100                              | 40   | 0    | 100  | 100                    | 100  | 25   | 0    | 90   | 90   | 25   |
| 17B     | RE 45601             | 2.00 EC  | .075 LB/AC  | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |
| 17C     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |
| 18A     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       | 100                              | 50   | 0    | 100  | 90                     | 98   | 38   | 0    | 82   | 88   | 38   |
| 18B     | RE 45601             | 2.00 EC  | .100 LB/AC  | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |
| 18C     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |                        |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7014 SOYBEAN POSTEMERGENCE

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED ----- |      |      |      | ---8 WEEKS AFTER APPL |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|----------------------------------|------|------|------|-----------------------|------|------|------|------|------|------|
|         |                      |          |             |           | GRAS                             | BRLE | CRIN | GIFT | JIWE                  | COLQ | TAMG | CRIN | JIWE | COLQ | TAMG |
| 19A     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       | 100                              | 40   | 0    | 100  | 92                    | 100  | 35   | 0    | 82   | 90   | 35   |
| 19B     | RE 45601             | 2.00 EC  | .125 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 19C     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 20A     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       | 100                              | 42   | 0    | 100  | 75                    | 98   | 25   | 0    | 70   | 88   | 52   |
| 20B     | RE 45601             | 2.00 EC  | .250 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 20C     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 21A     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       | 100                              | 55   | 0    | 100  | 90                    | 100  | 40   | 0    | 80   | 90   | 40   |
| 21B     | RE 45601             | 2.00 EC  | .060 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 21C     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 21D     | RE 45601             | 2.00 EC  | .060 LB/AC  | REG       |                                  |      |      |      |                       |      |      |      |      |      |      |
| 21E     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | REG       |                                  |      |      |      |                       |      |      |      |      |      |      |
| 22A     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       | 100                              | 48   | 0    | 100  | 78                    | 55   | 48   | 0    | 70   | 50   | 42   |
| 22B     | RE 45601             | 2.00 EC  | .100 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 22C     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 23A     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       | 100                              | 75   | 0    | 100  | 100                   | 95   | 70   | 0    | 90   | 85   | 60   |
| 23B     | RE 45601             | 2.00 EC  | .100 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 23C     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 24A     | BENTAZON             | 4.00 E   | .750 LB/AC  | MP        | 100                              | 80   | 0    | 100  | 100                   | 100  | 78   | 0    | 90   | 90   | 70   |
| 24B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 24C     | RE 45601             | 2.00 EC  | .075 LB/AC  | +1D       |                                  |      |      |      |                       |      |      |      |      |      |      |
| 24D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | +1D       |                                  |      |      |      |                       |      |      |      |      |      |      |
| 25A     | BENTAZON             | 4.00 E   | .750 LB/AC  | MP        | 100                              | 75   | 0    | 100  | 100                   | 88   | 65   | 0    | 90   | 78   | 55   |
| 25B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 25C     | RE 45601             | 2.00 EC  | .100 LB/AC  | +1D       |                                  |      |      |      |                       |      |      |      |      |      |      |
| 25D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | +1D       |                                  |      |      |      |                       |      |      |      |      |      |      |
| 26A     | BENTAZON             | 4.00 E   | .750 LB/AC  | MP        | 100                              | 72   | 0    | 100  | 100                   | 100  | 68   | 0    | 90   | 90   | 60   |
| 26B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 26C     | RE 45601             | 2.00 EC  | .125 LB/AC  | +1D       |                                  |      |      |      |                       |      |      |      |      |      |      |
| 26D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | +1D       |                                  |      |      |      |                       |      |      |      |      |      |      |
| 27A     | BENTAZON             | 4.00 E   | .750 LB/AC  | MP        | 100                              | 82   | 0    | 100  | 88                    | 88   | 85   | 0    | 78   | 78   | 75   |
| 27B     | ACIFLUORFEN          | 2.00 L   | .250 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 27C     | FENOXAPROP           | 1.00 EC  | .200 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 27D     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7014 SOYBEAN POSTEMERGENCE

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED ----- |      |      |      | ---8 WEEKS AFTER APPL |      |      |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|----------------------------------|------|------|------|-----------------------|------|------|------|------|------|------|
|         |                     |          |             |           | GRAS                             | BRLE | CRIN | GIFT | JIWE                  | COLQ | TAMG | CRIN | JIWE | COLQ | TAMG |
| 28A     | BENTAZON            | 4.00 E   | .750 LB/AC  | EP        | 100                              | 65   | 0    | 100  | 78                    | 45   | 70   | 0    | 70   | 42   | 62   |
| 28B     | ACIFLUORFEN         | 2.00 L   | .250 LB/AC  | EP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 28C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 28D     | FENOXAPROP          | 1.00 EC  | .100 LB/AC  | +5D       |                                  |      |      |      |                       |      |      |      |      |      |      |
| 28E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | +5D       |                                  |      |      |      |                       |      |      |      |      |      |      |
| 29A     | FENOXAPROP          | 1.00 EC  | .100 LB/AC  | MP        | 100                              | 35   | 0    | 100  | 88                    | 0    | 28   | 0    | 80   | 0    | 28   |
| 29B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 30A     | CINMETHYLIN         | 7.00 EC  | 1.000 LB/AC | PRE       | 98                               | 80   | 0    | 98   | 98                    | 75   | 88   | 0    | 88   | 70   | 78   |
| 30B     | CHLORIMURON         | 25.00 DF | .008 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 30C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 31A     | FENOXAPROP          | 1.00 EC  | .150 LB/AC  | MP        | 98                               | 68   | 0    | 98   | 100                   | 98   | 62   | 0    | 90   | 88   | 55   |
| 31B     | BENTAZON            | 4.00 E   | .750 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 31C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 32A     | FENOXAPROP          | 1.00 EC  | .100 LB/AC  | MP        | 100                              | 58   | 0    | 100  | 100                   | 30   | 80   | 0    | 90   | 30   | 72   |
| 32B     | ACIFLUORFEN         | 2.00 L   | .380 LB/AC  | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 33A     | RE 45601            | 2.00 EC  | .100 LB/AC  | MP        | 100                              | 35   | 0    | 100  | 72                    | 8    | 32   | 0    | 65   | 8    | 32   |
| 33B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 34A     | IMAZETHAPYR         | 2.00 AS  | .063 LB/AC  | MP        | 100                              | 62   | 0    | 100  | 100                   | 8    | 90   | 0    | 90   | 8    | 80   |
| 34B     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 35A     | IMAZETHAPYR         | 2.00 AS  | .078 LB/AC  | MP        | 98                               | 68   | 5    | 98   | 100                   | 20   | 82   | 0    | 90   | 20   | 72   |
| 35B     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 36A     | IMAZETHAPYR         | 2.00 AS  | .094 LB/AC  | MP        | 100                              | 72   | 0    | 100  | 100                   | 48   | 88   | 0    | 90   | 45   | 78   |
| 36B     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 37A     | IMAZETHAPYR         | 2.00 AS  | .063 LB/AC  | EP        | 100                              | 58   | 0    | 100  | 85                    | 35   | 80   | 0    | 78   | 35   | 70   |
| 37B     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 37C     | 10 34 0             | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 38A     | IMAZETHAPYR         | 2.00 AS  | .063 LB/AC  | MP        | 100                              | 70   | 0    | 100  | 100                   | 38   | 90   | 0    | 92   | 38   | 80   |
| 38B     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 38C     | 10 34 0             | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7014 SOYBEAN POSTEMERGENCE

| TRT NO. | HERBICIDE TREATMENT | FORMULA | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED ----- |      |      |      | ---8 WEEKS AFTER APPL |      |      |      |      |      |      |
|---------|---------------------|---------|-------------|-----------|----------------------------------|------|------|------|-----------------------|------|------|------|------|------|------|
|         |                     |         |             |           | GRAS                             | BRLE | CRIN | GIFT | JIWE                  | COLQ | TAMG | CRIN | JIWE | COLQ | TAMG |
| 39A     | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | LP        | 100                              | 68   | 8    | 100  | 100                   | 15   | 92   | 0    | 90   | 15   | 82   |
| 39B     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | LP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 39C     | 10 34 0             | .00 AD  | 1.000 QT/AC | LP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 40A     | IMAZETHAPYR         | 2.00 AS | .078 LB/AC  | EP        | 100                              | 68   | 0    | 100  | 82                    | 52   | 70   | 0    | 75   | 48   | 62   |
| 40B     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | EP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 40C     | 10 34 0             | .00 AD  | 1.000 QT/AC | EP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 41A     | IMAZETHAPYR         | 2.00 AS | .078 LB/AC  | MP        | 100                              | 82   | 0    | 100  | 100                   | 72   | 90   | 0    | 90   | 65   | 80   |
| 41B     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 41C     | 10 34 0             | .00 AD  | 1.000 QT/AC | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 42A     | IMAZETHAPYR         | 2.00 AS | .078 LB/AC  | LP        | 100                              | 68   | 10   | 100  | 100                   | 40   | 95   | 0    | 90   | 38   | 85   |
| 42B     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | LP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 42C     | 10 34 0             | .00 AD  | 1.000 QT/AC | LP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 43A     | IMAZETHAPYR         | 2.00 AS | .094 LB/AC  | EP        | 98                               | 80   | 0    | 98   | 95                    | 90   | 78   | 0    | 85   | 80   | 68   |
| 43B     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | EP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 43C     | 10 34 0             | .00 AD  | 1.000 QT/AC | EP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 44A     | IMAZETHAPYR         | 2.00 AS | .094 LB/AC  | MP        | 100                              | 80   | 0    | 100  | 100                   | 80   | 90   | 0    | 90   | 72   | 80   |
| 44B     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 44C     | 10 34 0             | .00 AD  | 1.000 QT/AC | MP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 45A     | IMAZETHAPYR         | 2.00 AS | .094 LB/AC  | LP        | 100                              | 68   | 5    | 100  | 100                   | 30   | 92   | 0    | 90   | 28   | 82   |
| 45B     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | LP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 45C     | 10 34 0             | .00 AD  | 1.000 QT/AC | LP        |                                  |      |      |      |                       |      |      |      |      |      |      |
| 46      | CHECK (CULTIVATED)  | .00 CK  | .000        |           | 100                              | 100  | 0    | 100  | 100                   | 100  | 100  | 0    | 100  | 100  | 100  |
|         |                     |         | LSD(05):    |           | NS                               | 13   | NS   | NS   | 18                    | 30   | 15   | 0    | 13   | 28   | 15   |

LOCATION: SPINDLETOP FARM

FERTILIZATION (LB/AC): 60 N, 60 P, 60 K

DATE PLANTED: MAY 11

VARIETY: WILLIAMS 82

SOIL TYPE: MAURY SILT LOAM

PH: 6.5 O.M.: 3.8%

DATE TREATED: PRE MAY 11

EP MAY 22

+5D MAY 28

MP (TOTAL POE) MAY 26

MP (UNDER PRE) MAY 28

+1D MAY 28

LP JUNE 5

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7027 SOYBEAN POSTEMERGENCE II

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |      |      |  |
|---------|---------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|------|------|--|
|         |                     |          |             |           | GRAS                            | BRLE | CRIN | GIFT | JIWE | COLQ | ILMG | TAMG | PESW | VELE |  |
| 1A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 93                              | 37   | 0    | 90   | 83   | 40   | 70   | 80   | 100  | 100  |  |
| 1B      | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 1C      | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 2A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 47   | 3    | 90   | 87   | 73   | 53   | 70   | 100  | 97   |  |
| 2B      | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 2C      | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 3A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 47   | 0    | 90   | 80   | 50   | 50   | 83   | 97   | 93   |  |
| 3B      | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 3C      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 4A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 87                              | 63   | 0    | 87   | 87   | 67   | 70   | 70   | 100  | 100  |  |
| 4B      | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 4C      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 5A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 50   | 0    | 90   | 90   | 53   | 73   | 93   | 100  | 100  |  |
| 5B      | CHLORIMURON         | 25.00 DF | .008 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 5C      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 6A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 87                              | 70   | 0    | 87   | 83   | 77   | 77   | 80   | 100  | 97   |  |
| 6B      | CHLORIMURON         | 25.00 DF | .012 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 6C      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 7A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 53   | 0    | 90   | 87   | 73   | 57   | 57   | 93   | 90   |  |
| 7B      | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 7C      | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 8A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 57   | 0    | 90   | 83   | 60   | 73   | 67   | 93   | 97   |  |
| 8B      | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 8C      | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 9A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 50   | 0    | 90   | 83   | 60   | 67   | 57   | 100  | 83   |  |
| 9B      | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 9C      | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 9D      | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 10A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 47   | 3    | 90   | 83   | 53   | 67   | 50   | 93   | 100  |  |
| 10B     | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 10C     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 10D     | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 11A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 43   | 0    | 90   | 83   | 60   | 53   | 43   | 100  | 87   |  |
| 11B     | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 11C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 11D     | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7027 SOYBEAN POSTEMERGENCE II

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|------|------|
|         |                     |          |             |           | GRAS                            | BRLE | CRIN | GIFT | JIWE | COLQ | ILMG | TAMG | PESW | VELE |
| 12A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 33   | 0    | 90   | 90   | 47   | 53   | 47   | 100  | 93   |
| 12B     | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 12C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 12D     | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 13A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 93                              | 47   | 0    | 93   | 90   | 77   | 53   | 63   | 100  | 93   |
| 13B     | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 13C     | IMAZAQUIN           | 1.50 AS  | .030 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 13D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 14A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 93                              | 47   | 0    | 93   | 90   | 90   | 57   | 47   | 100  | 87   |
| 14B     | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 14C     | IMAZAQUIN           | 1.50 AS  | .063 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 14D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 15A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 97                              | 60   | 3    | 97   | 90   | 80   | 63   | 80   | 97   | 100  |
| 15B     | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 15C     | IMAZAQUIN           | 1.50 AS  | .030 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 15D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 16A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 93                              | 60   | 0    | 93   | 93   | 73   | 60   | 87   | 97   | 93   |
| 16B     | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 16C     | IMAZAQUIN           | 1.50 AS  | .063 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 16D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 17A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 70   | 10   | 87   | 87   | 83   | 77   | 70   | 100  | 100  |
| 17B     | CHLORIMURON         | 25.00 DF | .012 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 17C     | IMAZAQUIN           | 1.50 AS  | .030 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 17D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 18A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 100                             | 70   | 20   | 100  | 90   | 80   | 70   | 83   | 97   | 100  |
| 18B     | CHLORIMURON         | 25.00 DF | .012 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 18C     | IMAZAQUIN           | 1.50 AS  | .063 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 18D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 19A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 93                              | 37   | 0    | 93   | 93   | 80   | 40   | 80   | 100  | 93   |
| 19B     | IMAZAQUIN           | 1.50 AS  | .030 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 19C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 20A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 93                              | 47   | 0    | 93   | 87   | 80   | 53   | 67   | 100  | 83   |
| 20B     | IMAZAQUIN           | 1.50 AS  | .063 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 20C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 21A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 93                              | 50   | 0    | 93   | 90   | 90   | 57   | 60   | 93   | 83   |
| 21B     | IMAZAQUIN           | 1.50 AS  | .125 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |
| 21C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7027 SOYBEAN POSTEMERGENCE II

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |      |      |  |
|---------|---------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|------|------|--|
|         |                     |          |             |           | GRAS                            | BRLE | CRIN | GIFT | JIWE | COLO | ILMG | TAMG | PESW | VELE |  |
| 22A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 80                              | 63   | 0    | 80   | 83   | 80   | 73   | 80   | 100  | 93   |  |
| 22B     | DPX 32054           | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 22C     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 23A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 87                              | 60   | 0    | 83   | 93   | 97   | 67   | 77   | 100  | 97   |  |
| 23B     | DPX 32054           | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 23C     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 24A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 83                              | 73   | 3    | 83   | 83   | 93   | 73   | 80   | 100  | 93   |  |
| 24B     | DPX 32054           | 25.00 DF | .013 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 24C     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 25A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 83                              | 73   | 0    | 83   | 87   | 100  | 73   | 73   | 100  | 97   |  |
| 25B     | DPX 32054           | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 25C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 26A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 67   | 0    | 90   | 87   | 97   | 67   | 93   | 100  | 97   |  |
| 26B     | DPX 32054           | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 26C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 27A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 83                              | 73   | 3    | 83   | 83   | 97   | 77   | 73   | 100  | 93   |  |
| 27B     | DPX 32054           | 25.00 DF | .013 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 27C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 28A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 80                              | 70   | 0    | 80   | 87   | 97   | 70   | 90   | 100  | 97   |  |
| 28B     | DPX 32054           | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 28C     | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 29A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 87                              | 67   | 0    | 87   | 77   | 97   | 70   | 77   | 97   | 90   |  |
| 29B     | DPX 32054           | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 29C     | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 30A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 87                              | 73   | 3    | 87   | 87   | 97   | 73   | 83   | 100  | 100  |  |
| 30B     | DPX 32054           | 25.00 DF | .013 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 30C     | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 31A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 53   | 0    | 90   | 83   | 100  | 53   | 90   | 100  | 93   |  |
| 31B     | DPX 32054           | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 31C     | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 31D     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 32A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 53   | 0    | 90   | 87   | 97   | 53   | 70   | 93   | 90   |  |
| 32B     | DPX 32054           | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 32C     | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 32D     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |      |      |      |  |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7027 SOYBEAN POSTEMERGENCE II

| TRT NO.    | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |      |      |  |
|------------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|------|------|--|
|            |                      |          |             |           | GRAS                            | BRLE | CRIN | GIFT | JIWE | COLQ | ILMG | TAMG | PESW | VELE |  |
| 33A        | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 83                              | 67   | 0    | 83   | 83   | 93   | 70   | 77   | 100  | 93   |  |
| 33B        | DPX 32054            | 25.00 DF | .013 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 33C        | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 33D        | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 34A        | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 83                              | 67   | 0    | 83   | 87   | 93   | 73   | 67   | 97   | 93   |  |
| 34B        | DPX 32054            | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 34C        | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 34D        | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 35A        | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 87                              | 57   | 0    | 87   | 83   | 90   | 60   | 57   | 97   | 87   |  |
| 35B        | DPX 32054            | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 35C        | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 35D        | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 36A        | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 77                              | 77   | 3    | 77   | 73   | 97   | 77   | 77   | 93   | 90   |  |
| 36B        | DPX 32054            | 25.00 DF | .013 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 36C        | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 36D        | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 37A        | CINMETHYLIN          | 7.00 EC  | .750 LB/AC  | PRE       | 93                              | 73   | 0    | 93   | 83   | 77   | 73   | 83   | 100  | 100  |  |
| 37B        | CHLORIMURON          | 25.00 DF | .008 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 37C        | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 38A        | CINMETHYLIN          | 7.00 EC  | 1.000 LB/AC | PRE       | 93                              | 67   | 0    | 93   | 80   | 80   | 77   | 83   | 97   | 97   |  |
| 38B        | CHLORIMURON          | 25.00 DF | .008 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 38C        | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 39A        | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       | 100                             | 60   | 0    | 100  | 83   | 100  | 67   | 60   | 100  | 97   |  |
| 39B        | QUIZALOFOP           | .80 L    | .050 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 39C        | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 40A        | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       | 100                             | 50   | 0    | 100  | 87   | 93   | 50   | 90   | 100  | 100  |  |
| 40B        | QUIZALOFOP           | .80 L    | .080 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 40C        | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |      |      |  |
| LSD (05) : |                      |          |             |           | 8                               | 18   | 5    | 9    | NS   | 20   | 18   | 28   | NS   | 10   |  |

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

FERTILIZATION (LB/AC): 60 N, 60 P, 60 K

PH: 6.6 O.M.: 3.6%

DATE PLANTED: MAY 11

DATE TREATED: PRE MAY 11

VARIETY: WILLIAMS 82

EP MAY 22

MP (BRLE) MAY 28

MP (GRASS) JUNE 2

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7027 SOYBEAN POSTEMERGENCE II

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|
|         |                     |          |             |           | CRIN                            | GIFT | JIWE | COLQ | ILMG | TAMG | VELE |
| 1A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 90   | 83   | 23   | 60   | 47   | 90   |
| 1B      | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 1C      | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |
| 2A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 93   | 77   | 60   | 60   | 53   | 93   |
| 2B      | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 2C      | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |
| 3A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 80   | 83   | 40   | 57   | 50   | 87   |
| 3B      | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 3C      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |
| 4A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 90   | 83   | 43   | 60   | 40   | 87   |
| 4B      | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 4C      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |
| 5A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 93   | 87   | 30   | 63   | 60   | 90   |
| 5B      | CHLORIMURON         | 25.00 DF | .008 LB/AC  | MP        |                                 |      |      |      |      |      |      |
| 5C      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |
| 6A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 90   | 87   | 37   | 63   | 47   | 93   |
| 6B      | CHLORIMURON         | 25.00 DF | .012 LB/AC  | MP        |                                 |      |      |      |      |      |      |
| 6C      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |
| 7A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 90   | 87   | 73   | 60   | 40   | 83   |
| 7B      | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 7C      | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |
| 8A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 97   | 87   | 47   | 63   | 53   | 100  |
| 8B      | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 8C      | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |
| 9A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 87   | 87   | 50   | 50   | 33   | 90   |
| 9B      | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 9C      | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |
| 9D      | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |
| 10A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 90   | 80   | 47   | 60   | 43   | 90   |
| 10B     | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 10C     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |
| 10D     | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |
| 11A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 90   | 83   | 67   | 63   | 43   | 87   |
| 11B     | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 11C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |
| 11D     | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7027 SOYBEAN POSTEMERGENCE II

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|----------------------------------|------|------|------|------|------|------|
|         |                     |          |             |           | CRIN                             | GIFT | JIWE | COLQ | ILMG | TAMG | VELE |
| 12A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 93   | 87   | 47   | 57   | 43   | 90   |
| 12B     | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 12C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 12D     | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 13A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 93   | 83   | 57   | 67   | 43   | 87   |
| 13B     | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 13C     | IMAZAQUIN           | 1.50 AS  | .030 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 13D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 14A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 90   | 87   | 80   | 63   | 47   | 93   |
| 14B     | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 14C     | IMAZAQUIN           | 1.50 AS  | .063 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 14D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 15A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 97   | 90   | 60   | 53   | 30   | 90   |
| 15B     | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 15C     | IMAZAQUIN           | 1.50 AS  | .030 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 15D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 16A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 93   | 87   | 70   | 67   | 47   | 93   |
| 16B     | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 16C     | IMAZAQUIN           | 1.50 AS  | .063 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 16D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 17A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 90   | 83   | 80   | 67   | 53   | 93   |
| 17B     | CHLORIMURON         | 25.00 DF | .012 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 17C     | IMAZAQUIN           | 1.50 AS  | .030 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 17D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 18A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 3                                | 100  | 90   | 87   | 63   | 47   | 97   |
| 18B     | CHLORIMURON         | 25.00 DF | .012 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 18C     | IMAZAQUIN           | 1.50 AS  | .063 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 18D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 19A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 93   | 87   | 83   | 60   | 33   | 90   |
| 19B     | IMAZAQUIN           | 1.50 AS  | .030 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 19C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 20A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 100  | 93   | 90   | 60   | 47   | 90   |
| 20B     | IMAZAQUIN           | 1.50 AS  | .063 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 20C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 21A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 97   | 90   | 97   | 60   | 47   | 87   |
| 21B     | IMAZAQUIN           | 1.50 AS  | .125 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 21C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7027 SOYBEAN POSTEMERGENCE II

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|
|         |                     |          |             |           | CRIN                            | GIFT | JIWE | COLQ | ILMG | TAMG | VELE |
| 22A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 87   | 73   | 87   | 67   | 53   | 87   |
| 22B     | DPX 32054           | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 22C     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |
| 23A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 87   | 77   | 90   | 63   | 50   | 87   |
| 23B     | DPX 32054           | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 23C     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |
| 24A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 3                               | 87   | 77   | 87   | 67   | 50   | 83   |
| 24B     | DPX 32054           | 25.00 DF | .013 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 24C     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |
| 25A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 80   | 73   | 90   | 63   | 50   | 83   |
| 25B     | DPX 32054           | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 25C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |
| 26A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 90   | 90   | 90   | 67   | 60   | 100  |
| 26B     | DPX 32054           | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 26C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |
| 27A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 83   | 83   | 90   | 63   | 47   | 100  |
| 27B     | DPX 32054           | 25.00 DF | .013 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 27C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |
| 28A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 87   | 87   | 90   | 63   | 47   | 93   |
| 28B     | DPX 32054           | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 28C     | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |
| 29A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 93   | 70   | 87   | 60   | 53   | 83   |
| 29B     | DPX 32054           | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 29C     | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |
| 30A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 97   | 80   | 90   | 70   | 57   | 90   |
| 30B     | DPX 32054           | 25.00 DF | .013 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 30C     | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |
| 31A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 7                               | 93   | 80   | 93   | 60   | 40   | 93   |
| 31B     | DPX 32054           | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 31C     | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |
| 31D     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |
| 32A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 90   | 83   | 90   | 57   | 40   | 87   |
| 32B     | DPX 32054           | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |
| 32C     | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | EP        |                                 |      |      |      |      |      |      |
| 32D     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7027 SOYBEAN POSTEMERGENCE II

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|----------------------------------|------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                             | GIFT | JIWE | COLQ | ILMG | TAMG | VELE |
| 33A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 90   | 63   | 83   | 67   | 50   | 90   |
| 33B     | DPX 32054            | 25.00 DF | .013 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 33C     | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 33D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                                  |      |      |      |      |      |      |
| 34A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 87   | 70   | 80   | 60   | 43   | 93   |
| 34B     | DPX 32054            | 25.00 DF | .004 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 34C     | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 34D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 35A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 90   | 73   | 87   | 67   | 53   | 90   |
| 35B     | DPX 32054            | 25.00 DF | .008 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 35C     | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 35D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 36A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 80   | 70   | 90   | 60   | 50   | 90   |
| 36B     | DPX 32054            | 25.00 DF | .013 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 36C     | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 36D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 37A     | CINMETHYLIN          | 7.00 EC  | .750 LB/AC  | PRE       | 0                                | 90   | 83   | 73   | 67   | 57   | 90   |
| 37B     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | MP        |                                  |      |      |      |      |      |      |
| 37C     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |      |
| 38A     | CINMETHYLIN          | 7.00 EC  | 1.000 LB/AC | PRE       | 0                                | 90   | 83   | 67   | 63   | 47   | 93   |
| 38B     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | MP        |                                  |      |      |      |      |      |      |
| 38C     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |      |
| 39A     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       | 0                                | 97   | 87   | 87   | 73   | 57   | 97   |
| 39B     | QUIZALOFOP           | .80 L    | .050 LB/AC  | MP        |                                  |      |      |      |      |      |      |
| 39C     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |      |
| 40A     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       | 0                                | 97   | 83   | 90   | 73   | 70   | 93   |
| 40B     | QUIZALOFOP           | .80 L    | .080 LB/AC  | MP        |                                  |      |      |      |      |      |      |
| 40C     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |      |

LSD(05) : NS NS 14 26 NS 19 NS

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

FERTILIZATION (LB/AC): 60 N, 60 P, 60 K

PH: 6.6 O.M.: 3.6%

DATE PLANTED: MAY 11

DATE TREATED: PRE MAY 11

VARIETY: WILLIAMS 82

EP MAY 22

MP (BRLE) MAY 28

MP (GRASS) JUNE 2

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7033 SOYBEAN POSTEMERGENCE III

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                     |          |             |           | GRAS                            | BRLE | CRIN | GIFT | GRFT | JIWE | COLQ | TAMG |
| 1A      | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        | 100                             | 77   | 0    | 100  | 100  | 100  | 87   | 67   |
| 1B      | BENTAZON            | 4.00 E   | .750 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 1C      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 2A      | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        | 100                             | 73   | 0    | 100  | 100  | 100  | 60   | 63   |
| 2B      | BENTAZON            | 4.00 E   | .750 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 2C      | DAX                 | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 3A      | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        | 97                              | 83   | 0    | 100  | 97   | 100  | 73   | 87   |
| 3B      | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 3C      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 4A      | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        | 97                              | 77   | 0    | 97   | 97   | 87   | 70   | 77   |
| 4B      | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 4C      | DAX                 | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 5A      | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        | 100                             | 50   | 0    | 100  | 100  | 100  | 47   | 77   |
| 5B      | CHLORIMURON         | 25.00 DF | .008 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 5C      | X-77 (SURFACTANT)   | .50 WA   | .250 %      | MP        |                                 |      |      |      |      |      |      |      |
| 6A      | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        | 100                             | 90   | 0    | 100  | 100  | 83   | 97   | 87   |
| 6B      | BENTAZON            | 4.00 E   | .750 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 6C      | FOMESAFEN           | 2.00 LC  | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 6D      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 7A      | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        | 97                              | 87   | 0    | 97   | 97   | 67   | 97   | 87   |
| 7B      | BENTAZON            | 4.00 E   | .750 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 7C      | FOMESAFEN           | 2.00 LC  | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 7D      | DAX                 | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 8A      | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        | 97                              | 80   | 0    | 97   | 97   | 100  | 60   | 93   |
| 8B      | CHLORIMURON         | 25.00 DF | .004 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 8C      | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 8D      | X-77 (SURFACTANT)   | .50 WA   | .250 %      | MP        |                                 |      |      |      |      |      |      |      |
| 9A      | BENTAZON            | 4.00 E   | .750 LB/AC  | EP        | 100                             | 67   | 0    | 100  | 100  | 53   | 70   | 77   |
| 9B      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 9C      | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 9D      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7033 SOYBEAN POSTEMERGENCE III

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                     |          |             |           | GRAS                            | BRLE | CRIN | GIFT | GRFT | JIWE | COLQ | TAMG |
| 10A     | BENTAZON            | 4.00 E   | .750 LB/AC  | EP        | 100                             | 53   | 7    | 100  | 100  | 40   | 37   | 70   |
| 10B     | FOMESAFEN           | 2.00 LC  | .188 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 10C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 10D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 10E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 11A     | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        | 100                             | 50   | 0    | 100  | 100  | 60   | 23   | 77   |
| 11B     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |      |
| 11C     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 11D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 12A     | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        | 100                             | 70   | 0    | 100  | 100  | 80   | 60   | 90   |
| 12B     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 12C     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |      |
| 12D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 12E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 13A     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | MP        | 97                              | 87   | 0    | 100  | 97   | 77   | 83   | 93   |
| 13B     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 13C     | 2,4-DB              | 2.00 E   | .030 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 13D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 14A     | FOMESAFEN           | 2.00 LC  | .313 LB/AC  | MP        | 100                             | 87   | 10   | 100  | 100  | 93   | 80   | 90   |
| 14B     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 14C     | 2,4-DB              | 2.00 E   | .030 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 14D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 15A     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | EP        | 100                             | 57   | 0    | 100  | 100  | 60   | 43   | 73   |
| 15B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 15C     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 15D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 16A     | FOMESAFEN           | 2.00 LC  | .313 LB/AC  | EP        | 100                             | 70   | 0    | 100  | 100  | 60   | 70   | 80   |
| 16B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 16C     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 16D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 17A     | FOMESAFEN           | 2.00 LC  | .125 LB/AC  | EP        | 100                             | 60   | 0    | 100  | 100  | 40   | 50   | 83   |
| 17B     | BENTAZON            | 4.00 E   | .750 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 17C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 17D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 17E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7033 SOYBEAN POSTEMERGENCE III

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                     |          |             |           | GRAS                            | BRLE | CRIN | GIFT | GRFT | JIWE | COLQ | TAMG |
| 18A     | FOMESAFEN           | 2.00 LC  | .188 LB/AC  | EP        | 100                             | 67   | 0    | 100  | 100  | 40   | 80   | 77   |
| 18B     | BENTAZON            | 4.00 E   | .500 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 18C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 18D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 18E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 19A     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | EP        | 100                             | 70   | 0    | 100  | 100  | 67   | 60   | 87   |
| 19B     | BENTAZON            | 4.00 E   | .500 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 19C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 19D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 19E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 20A     | FOMESAFEN           | 2.00 LC  | .188 LB/AC  | EP        | 100                             | 57   | 0    | 100  | 100  | 53   | 37   | 87   |
| 20B     | BENTAZON            | 4.00 E   | .500 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 20C     | 2, 4-DB             | 2.00 E   | .030 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 20D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 20E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 21A     | FOMESAFEN           | 2.00 LC  | .188 LB/AC  | MP        | 90                              | 67   | 3    | 90   | 90   | 100  | 43   | 90   |
| 21B     | CHLORIMURON         | 25.00 DF | .012 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 21C     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 21D     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | MP        |                                 |      |      |      |      |      |      |      |
| 22A     | FOMESAFEN           | 2.00 LC  | .188 LB/AC  | EP        | 100                             | 70   | 0    | 100  | 100  | 47   | 63   | 87   |
| 22B     | CHLORIMURON         | 25.00 DF | .006 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 22C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 22D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 22E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 23A     | FOMESAFEN           | 2.00 LC  | .188 LB/AC  | EP        | 100                             | 63   | 0    | 100  | 100  | 67   | 50   | 77   |
| 23B     | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 23C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 23D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 23E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 24A     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | EP        | 100                             | 77   | 0    | 100  | 100  | 40   | 80   | 87   |
| 24B     | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 24C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 24D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 24E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7033 SOYBEAN POSTEMERGENCE III

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE  | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|---------------------|----------|-------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                     |          |       |           | GRAS                            | BRLE | CRIN | GIFT | GRFT | JIWE | COLQ | TAMG |
| 25A     | FOMESAFEN           | 2.00 LC  | .250  | LB/AC EP  | 100                             | 77   | 0    | 100  | 100  | 57   | 70   | 97   |
| 25B     | CHLORIMURON         | 25.00 DF | .008  | LB/AC EP  |                                 |      |      |      |      |      |      |      |
| 25C     | OIL CONCENTRATE     | .00 AD   | 1.000 | QT/AC EP  |                                 |      |      |      |      |      |      |      |
| 25D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188  | LB/AC MP  |                                 |      |      |      |      |      |      |      |
| 25E     | OIL CONCENTRATE     | .00 AD   | 1.000 | QT/AC MP  |                                 |      |      |      |      |      |      |      |
| 26A     | SETHOXYDIM          | 1.53 EC  | .200  | LB/AC LP  | 100                             | 63   | 0    | 100  | 100  | 97   | 53   | 57   |
| 26B     | ACIFLUORFEN         | 2.00 L   | .250  | LB/AC LP  |                                 |      |      |      |      |      |      |      |
| 26C     | DAX                 | .00 AD   | 1.000 | QT/AC LP  |                                 |      |      |      |      |      |      |      |
| 27A     | SETHOXYDIM          | 1.53 EC  | .200  | LB/AC LP  | 100                             | 70   | 0    | 100  | 100  | 100  | 63   | 57   |
| 27B     | BENTAZON            | 4.00 E   | .500  | LB/AC LP  |                                 |      |      |      |      |      |      |      |
| 27C     | ACIFLUORFEN         | 2.00 L   | .250  | LB/AC LP  |                                 |      |      |      |      |      |      |      |
| 27D     | DAX                 | .00 AD   | .500  | QT/AC LP  |                                 |      |      |      |      |      |      |      |
| 28A     | SETHOXYDIM          | 1.53 EC  | .200  | LB/AC LP  | 100                             | 63   | 3    | 100  | 100  | 100  | 47   | 53   |
| 28B     | BENTAZON            | 4.00 E   | .500  | LB/AC LP  |                                 |      |      |      |      |      |      |      |
| 28C     | ACIFLUORFEN         | 2.00 L   | .250  | LB/AC LP  |                                 |      |      |      |      |      |      |      |
| 28D     | DAX                 | .00 AD   | 1.000 | QT/AC LP  |                                 |      |      |      |      |      |      |      |
| 29A     | SETHOXYDIM          | 1.53 EC  | .200  | LB/AC LP  | 100                             | 60   | 0    | 100  | 100  | 97   | 60   | 50   |
| 29B     | BENTAZON            | 4.00 E   | .500  | LB/AC LP  |                                 |      |      |      |      |      |      |      |
| 29C     | ACIFLUORFEN         | 2.00 S   | .250  | LB/AC LP  |                                 |      |      |      |      |      |      |      |
| 29D     | OIL CONCENTRATE     | .00 AD   | 1.000 | QT/AC LP  |                                 |      |      |      |      |      |      |      |
| 30A     | SETHOXYDIM          | 1.53 EC  | .200  | LB/AC LP  | 97                              | 73   | 0    | 90   | 100  | 100  | 70   | 60   |
| 30B     | BENTAZON            | 4.00 E   | .500  | LB/AC LP  |                                 |      |      |      |      |      |      |      |
| 30C     | ACIFLUORFEN         | 2.00 L   | .250  | LB/AC LP  |                                 |      |      |      |      |      |      |      |
| 30D     | DAX                 | .00 AD   | .500  | QT/AC LP  |                                 |      |      |      |      |      |      |      |
| 30E     | LIQUID FERTILIZER   | .00 AD   | 4.000 | QT/AC LP  |                                 |      |      |      |      |      |      |      |
| 31A     | SETHOXYDIM          | 1.53 EC  | .200  | LB/AC LP  | 100                             | 63   | 0    | 100  | 100  | 97   | 57   | 50   |
| 31B     | OIL CONCENTRATE     | .00 AD   | 1.000 | QT/AC LP  |                                 |      |      |      |      |      |      |      |
| 31C     | BENTAZON            | 4.00 E   | .500  | LB/AC +1D |                                 |      |      |      |      |      |      |      |
| 31D     | ACIFLUORFEN         | 2.00 L   | .250  | LB/AC +1D |                                 |      |      |      |      |      |      |      |
| 31E     | OIL CONCENTRATE     | .00 AD   | 1.000 | QT/AC +1D |                                 |      |      |      |      |      |      |      |
| 32A     | SETHOXYDIM          | 1.53 EC  | .200  | LB/AC MP  | 100                             | 63   | 0    | 100  | 100  | 70   | 57   | 73   |
| 32B     | OIL CONCENTRATE     | .00 AD   | 1.000 | QT/AC MP  |                                 |      |      |      |      |      |      |      |
| 32C     | UBI 1484            | 2.00 L   | 1.500 | LB/AC LP  |                                 |      |      |      |      |      |      |      |
| 32D     | OIL CONCENTRATE     | .00 AD   | 1.000 | QT/AC LP  |                                 |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7033 SOYBEAN POSTEMERGENCE III

| TRT NO.    | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|------------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|            |                      |          |             |           | GRAS                            | BRLE | CRIN | GIFT | GRFT | JIWE | COLQ | TAMG |
| 33A        | SETHOXYDIM           | 1.53 EC  | .200 LB/AC  | MP        | 97                              | 77   | 17   | 100  | 97   | 80   | 67   | 93   |
| 33B        | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 33C        | UBI 1484             | 2.00 L   | 1.500 LB/AC | LLP       |                                 |      |      |      |      |      |      |      |
| 33D        | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | LLP       |                                 |      |      |      |      |      |      |      |
| 34A        | SETHOXYDIM           | 1.53 EC  | .200 LB/AC  | MP        | 100                             | 53   | 0    | 100  | 100  | 97   | 33   | 73   |
| 34B        | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 34C        | UBI 1484             | 2.00 L   | 1.500 LB/AC | LP        |                                 |      |      |      |      |      |      |      |
| 34D        | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | LP        |                                 |      |      |      |      |      |      |      |
| 35A        | SETHOXYDIM           | 1.53 EC  | .200 LB/AC  | MP        | 100                             | 50   | 0    | 100  | 100  | 100  | 27   | 53   |
| 35B        | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 35C        | UBI 1484             | 2.00 L   | 1.500 LB/AC | LP        |                                 |      |      |      |      |      |      |      |
| 35D        | 10 34 0              | .00 AD   | 1.000 QT/AC | LP        |                                 |      |      |      |      |      |      |      |
| 36A        | SETHOXYDIM           | 1.53 EC  | .200 LB/AC  | MP        | 100                             | 53   | 0    | 100  | 100  | 70   | 53   | 53   |
| 36B        | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 36C        | UBI 1484             | 2.00 L   | 1.500 LB/AC | LP        |                                 |      |      |      |      |      |      |      |
| 36D        | IMAZAQUIN            | 1.50 AS  | .070 LB/AC  | LP        |                                 |      |      |      |      |      |      |      |
| 36E        | X-77 (SURFACTANT)    | .50 WA   | .250 %      | LP        |                                 |      |      |      |      |      |      |      |
| 37A        | SETHOXYDIM           | 1.53 EC  | .200 LB/AC  | MP        | 97                              | 80   | 3    | 100  | 97   | 97   | 77   | 93   |
| 37B        | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 37C        | UBI 1484             | 2.00 L   | 1.500 LB/AC | LLP       |                                 |      |      |      |      |      |      |      |
| 37D        | IMAZAQUIN            | 1.50 AS  | .070 LB/AC  | LLP       |                                 |      |      |      |      |      |      |      |
| 37E        | X-77 (SURFACTANT)    | .50 WA   | .250 %      | LLP       |                                 |      |      |      |      |      |      |      |
| 38A        | SETHOXYDIM           | 1.53 EC  | .200 LB/AC  | MP        | 100                             | 63   | 0    | 100  | 100  | 77   | 53   | 63   |
| 38B        | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 38C        | UBI 1484             | 2.00 L   | 1.500 LB/AC | LP        |                                 |      |      |      |      |      |      |      |
| 38D        | CHLORIMURON          | 25.00 DF | .004 LB/AC  | LP        |                                 |      |      |      |      |      |      |      |
| 38E        | X-77 (SURFACTANT)    | .50 WA   | .250 %      | LP        |                                 |      |      |      |      |      |      |      |
| 39A        | SETHOXYDIM           | 1.53 EC  | .200 LB/AC  | MP        | 100                             | 60   | 3    | 100  | 100  | 73   | 67   | 53   |
| 39B        | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 39C        | UBI 1484             | 2.00 L   | 1.500 LB/AC | LP        |                                 |      |      |      |      |      |      |      |
| 39D        | LACTOFEN             | 2.00 E   | .090 LB/AC  | LP        |                                 |      |      |      |      |      |      |      |
| 39E        | X-77 (SURFACTANT)    | .50 WA   | .250 %      | LP        |                                 |      |      |      |      |      |      |      |
| 40A        | SETHOXYDIM           | 1.53 EC  | .200 LB/AC  | MP        | 100                             | 57   | 0    | 100  | 100  | 87   | 50   | 47   |
| 40B        | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 40C        | UBI 1484             | 2.00 L   | 1.500 LB/AC | LP        |                                 |      |      |      |      |      |      |      |
| 40D        | ACIFLUORFEN 2        | 2.00 L   | .250 LB/AC  | LP        |                                 |      |      |      |      |      |      |      |
| 40E        | TRITON AG 98 SURFACT | .00 WA   | .250 %      | LP        |                                 |      |      |      |      |      |      |      |
| LSD (05) : |                      |          |             |           | 4                               | 13   | 4    | 5    | 4    | 25   | 26   | 17   |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7033 SOYBEAN POSTEMERGENCE III

|   |                            |
|---|----------------------------|
| LOCATION: SPINDLETOP FARM               | SOIL TYPE: MAURY SILT LOAM |
| FERTILIZATION (LB/AC): 60 N, 60 P, 60 K | PH: 6.6 O.M.: 3.6%         |
| DATE PLANTED: MAY 11                    | DATE TREATED: EP MAY 22    |
| VARIETY: WILLAIMS 82                    | MP (TOTAL POE) MAY 28      |
|   | MP (GRASS) JUNE 2          |
|   | LP JUNE 8                  |
|   | +1D JUNE 9                 |
|   | LLP JUNE 13                |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7033 SOYBEAN POSTEMERGENCE III

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA  | RATE        | APPL<br>METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |
|------------|------------------------|----------|-------------|--------------|----------------------------------|------|------|------|------|------|
|            |                        |          |             |              | CRIN                             | GIFT | GRFT | JIWE | COLQ | TAMG |
| 1A         | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           | 0                                | 100  | 100  | 97   | 83   | 63   |
| 1B         | BENTAZON               | 4.00 E   | .750 LB/AC  | MP           |                                  |      |      |      |      |      |
| 1C         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | MP           |                                  |      |      |      |      |      |
| 2A         | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           | 0                                | 100  | 100  | 100  | 60   | 63   |
| 2B         | BENTAZON               | 4.00 E   | .750 LB/AC  | MP           |                                  |      |      |      |      |      |
| 2C         | DAX                    | .00 AD   | 1.000 QT/AC | MP           |                                  |      |      |      |      |      |
| 3A         | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           | 0                                | 100  | 97   | 97   | 67   | 87   |
| 3B         | FOMESAFEN              | 2.00 LC  | .250 LB/AC  | MP           |                                  |      |      |      |      |      |
| 3C         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | MP           |                                  |      |      |      |      |      |
| 4A         | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           | 0                                | 97   | 97   | 90   | 67   | 77   |
| 4B         | FOMESAFEN              | 2.00 LC  | .250 LB/AC  | MP           |                                  |      |      |      |      |      |
| 4C         | DAX                    | .00 AD   | 1.000 QT/AC | MP           |                                  |      |      |      |      |      |
| 5A         | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           | 0                                | 100  | 100  | 100  | 20   | 77   |
| 5B         | CHLORIMURON            | 25.00 DF | .008 LB/AC  | MP           |                                  |      |      |      |      |      |
| 5C         | X-77 (SURFACTANT)      | .50 WA   | .250 %      | MP           |                                  |      |      |      |      |      |
| 6A         | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           | 0                                | 97   | 97   | 90   | 93   | 87   |
| 6B         | BENTAZON               | 4.00 E   | .750 LB/AC  | MP           |                                  |      |      |      |      |      |
| 6C         | FOMESAFEN              | 2.00 LC  | .188 LB/AC  | MP           |                                  |      |      |      |      |      |
| 6D         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | MP           |                                  |      |      |      |      |      |
| 7A         | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           | 0                                | 93   | 97   | 60   | 93   | 87   |
| 7B         | BENTAZON               | 4.00 E   | .750 LB/AC  | MP           |                                  |      |      |      |      |      |
| 7C         | FOMESAFEN              | 2.00 LC  | .188 LB/AC  | MP           |                                  |      |      |      |      |      |
| 7D         | DAX                    | .00 AD   | 1.000 QT/AC | MP           |                                  |      |      |      |      |      |
| 8A         | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           | 0                                | 100  | 100  | 100  | 50   | 90   |
| 8B         | CHLORIMURON            | 25.00 DF | .004 LB/AC  | MP           |                                  |      |      |      |      |      |
| 8C         | FOMESAFEN              | 2.00 LC  | .250 LB/AC  | MP           |                                  |      |      |      |      |      |
| 8D         | X-77 (SURFACTANT)      | .50 WA   | .250 %      | MP           |                                  |      |      |      |      |      |
| 9A         | BENTAZON               | 4.00 E   | .750 LB/AC  | EP           | 0                                | 100  | 100  | 43   | 53   | 77   |
| 9B         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                                  |      |      |      |      |      |
| 9C         | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           |                                  |      |      |      |      |      |
| 9D         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | MP           |                                  |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7033 SOYBEAN POSTEMERGENCE III

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|----------------------------------|------|------|------|------|------|
|         |                     |          |             |           | CRIN                             | GIFT | GRFT | JIWE | COLO | TAMG |
| 10A     | BENTAZON            | 4.00 E   | .750 LB/AC  | EP        | 0                                | 97   | 97   | 40   | 37   | 70   |
| 10B     | FOMESAFEN           | 2.00 LC  | .188 LB/AC  | EP        |                                  |      |      |      |      |      |
| 10C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |
| 10D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                  |      |      |      |      |      |
| 10E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |
| 11A     | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        | 0                                | 100  | 100  | 60   | 23   | 73   |
| 11B     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                  |      |      |      |      |      |
| 11C     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                  |      |      |      |      |      |
| 11D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |
| 12A     | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        | 0                                | 100  | 100  | 67   | 50   | 90   |
| 12B     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | EP        |                                  |      |      |      |      |      |
| 12C     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | EP        |                                  |      |      |      |      |      |
| 12D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                  |      |      |      |      |      |
| 12E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |
| 13A     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | MP        | 0                                | 100  | 97   | 80   | 63   | 93   |
| 13B     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                  |      |      |      |      |      |
| 13C     | 2,4-DB              | 2.00 E   | .030 LB/AC  | MP        |                                  |      |      |      |      |      |
| 13D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |
| 14A     | FOMESAFEN           | 2.00 LC  | .313 LB/AC  | MP        | 7                                | 97   | 100  | 93   | 63   | 93   |
| 14B     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                  |      |      |      |      |      |
| 14C     | 2,4-DB              | 2.00 E   | .030 LB/AC  | MP        |                                  |      |      |      |      |      |
| 14D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |
| 15A     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | EP        | 0                                | 100  | 100  | 57   | 40   | 73   |
| 15B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |
| 15C     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                  |      |      |      |      |      |
| 15D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |
| 16A     | FOMESAFEN           | 2.00 LC  | .313 LB/AC  | EP        | 0                                | 100  | 100  | 60   | 47   | 80   |
| 16B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |
| 16C     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                  |      |      |      |      |      |
| 16D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |
| 17A     | FOMESAFEN           | 2.00 LC  | .125 LB/AC  | EP        | 0                                | 97   | 97   | 40   | 37   | 83   |
| 17B     | BENTAZON            | 4.00 E   | .750 LB/AC  | EP        |                                  |      |      |      |      |      |
| 17C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |
| 17D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                  |      |      |      |      |      |
| 17E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7033 SOYBEAN POSTEMERGENCE III

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA  | RATE        | APPL<br>METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |
|------------|------------------------|----------|-------------|--------------|----------------------------------|------|------|------|------|------|
|            |                        |          |             |              | CRIN                             | GIFT | GRFT | JIWE | COLO | TAMG |
| 18A        | FOMESAFEN              | 2.00 LC  | .188 LB/AC  | EP           | 0                                | 100  | 100  | 43   | 70   | 77   |
| 18B        | BENTAZON               | 4.00 E   | .500 LB/AC  | EP           |                                  |      |      |      |      |      |
| 18C        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                                  |      |      |      |      |      |
| 18D        | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           |                                  |      |      |      |      |      |
| 18E        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | MP           |                                  |      |      |      |      |      |
| 19A        | FOMESAFEN              | 2.00 LC  | .250 LB/AC  | EP           | 0                                | 100  | 100  | 67   | 47   | 80   |
| 19B        | BENTAZON               | 4.00 E   | .500 LB/AC  | EP           |                                  |      |      |      |      |      |
| 19C        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                                  |      |      |      |      |      |
| 19D        | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           |                                  |      |      |      |      |      |
| 19E        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | MP           |                                  |      |      |      |      |      |
| 20A        | FOMESAFEN              | 2.00 LC  | .188 LB/AC  | EP           | 0                                | 100  | 100  | 53   | 23   | 83   |
| 20B        | BENTAZON               | 4.00 E   | .500 LB/AC  | EP           |                                  |      |      |      |      |      |
| 20C        | 2,4-DB                 | 2.00 E   | .030 LB/AC  | EP           |                                  |      |      |      |      |      |
| 20D        | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           |                                  |      |      |      |      |      |
| 20E        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | MP           |                                  |      |      |      |      |      |
| 21A        | FOMESAFEN              | 2.00 LC  | .188 LB/AC  | MP           | 0                                | 90   | 90   | 100  | 40   | 87   |
| 21B        | CHLORIMURON            | 25.00 DF | .012 LB/AC  | MP           |                                  |      |      |      |      |      |
| 21C        | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           |                                  |      |      |      |      |      |
| 21D        | X-77 (SURFACTANT)      | .50 WA   | .250 %      | MP           |                                  |      |      |      |      |      |
| 22A        | FOMESAFEN              | 2.00 LC  | .188 LB/AC  | EP           | 0                                | 100  | 100  | 47   | 47   | 87   |
| 22B        | CHLORIMURON            | 25.00 DF | .006 LB/AC  | EP           |                                  |      |      |      |      |      |
| 22C        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                                  |      |      |      |      |      |
| 22D        | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           |                                  |      |      |      |      |      |
| 22E        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | MP           |                                  |      |      |      |      |      |
| 23A        | FOMESAFEN              | 2.00 LC  | .188 LB/AC  | EP           | 0                                | 100  | 100  | 67   | 57   | 73   |
| 23B        | CHLORIMURON            | 25.00 DF | .008 LB/AC  | EP           |                                  |      |      |      |      |      |
| 23C        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                                  |      |      |      |      |      |
| 23D        | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           |                                  |      |      |      |      |      |
| 23E        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | MP           |                                  |      |      |      |      |      |
| 24A        | FOMESAFEN              | 2.00 LC  | .250 LB/AC  | EP           | 0                                | 100  | 100  | 43   | 60   | 87   |
| 24B        | CHLORIMURON            | 25.00 DF | .004 LB/AC  | EP           |                                  |      |      |      |      |      |
| 24C        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                                  |      |      |      |      |      |
| 24D        | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           |                                  |      |      |      |      |      |
| 24E        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | MP           |                                  |      |      |      |      |      |



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7033 SOYBEAN POSTEMERGENCE III

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|----------------------------------|------|------|------|------|------|
|         |                     |          |             |           | CRIN                             | GIFT | GRFT | JIWE | COLQ | TAMG |
| 25A     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | EP        | 0                                | 100  | 100  | 60   | 60   | 90   |
| 25B     | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                                  |      |      |      |      |      |
| 25C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |
| 25D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                                  |      |      |      |      |      |
| 25E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |
| 26A     | SETHOXYDIM          | 1.53 EC  | .200 LB/AC  | LP        | 0                                | 100  | 100  | 93   | 57   | 57   |
| 26B     | ACIFLUORFEN         | 2.00 L   | .250 LB/AC  | LP        |                                  |      |      |      |      |      |
| 26C     | DAX                 | .00 AD   | 1.000 QT/AC | LP        |                                  |      |      |      |      |      |
| 27A     | SETHOXYDIM          | 1.53 EC  | .200 LB/AC  | LP        | 0                                | 100  | 100  | 100  | 67   | 57   |
| 27B     | BENTAZON            | 4.00 E   | .500 LB/AC  | LP        |                                  |      |      |      |      |      |
| 27C     | ACIFLUORFEN         | 2.00 L   | .250 LB/AC  | LP        |                                  |      |      |      |      |      |
| 27D     | DAX                 | .00 AD   | .500 QT/AC  | LP        |                                  |      |      |      |      |      |
| 28A     | SETHOXYDIM          | 1.53 EC  | .200 LB/AC  | LP        | 0                                | 97   | 100  | 100  | 50   | 53   |
| 28B     | BENTAZON            | 4.00 E   | .500 LB/AC  | LP        |                                  |      |      |      |      |      |
| 28C     | ACIFLUORFEN         | 2.00 L   | .250 LB/AC  | LP        |                                  |      |      |      |      |      |
| 28D     | DAX                 | .00 AD   | 1.000 QT/AC | LP        |                                  |      |      |      |      |      |
| 29A     | SETHOXYDIM          | 1.53 EC  | .200 LB/AC  | LP        | 0                                | 100  | 100  | 97   | 63   | 43   |
| 29B     | BENTAZON            | 4.00 E   | .500 LB/AC  | LP        |                                  |      |      |      |      |      |
| 29C     | ACIFLUORFEN         | 2.00 S   | .250 LB/AC  | LP        |                                  |      |      |      |      |      |
| 29D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | LP        |                                  |      |      |      |      |      |
| 30A     | SETHOXYDIM          | 1.53 EC  | .200 LB/AC  | LP        | 0                                | 97   | 100  | 100  | 73   | 57   |
| 30B     | BENTAZON            | 4.00 E   | .500 LB/AC  | LP        |                                  |      |      |      |      |      |
| 30C     | ACIFLUORFEN         | 2.00 L   | .250 LB/AC  | LP        |                                  |      |      |      |      |      |
| 30D     | DAX                 | .00 AD   | .500 QT/AC  | LP        |                                  |      |      |      |      |      |
| 30E     | LIQUID FERTILIZER   | .00 AD   | 4.000 QT/AC | LP        |                                  |      |      |      |      |      |
| 31A     | SETHOXYDIM          | 1.53 EC  | .200 LB/AC  | LP        | 0                                | 100  | 100  | 97   | 67   | 53   |
| 31B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | LP        |                                  |      |      |      |      |      |
| 31C     | BENTAZON            | 4.00 E   | .500 LB/AC  | +1D       |                                  |      |      |      |      |      |
| 31D     | ACIFLUORFEN         | 2.00 L   | .250 LB/AC  | +1D       |                                  |      |      |      |      |      |
| 31E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | +1D       |                                  |      |      |      |      |      |
| 32A     | SETHOXYDIM          | 1.53 EC  | .200 LB/AC  | MP        | 0                                | 100  | 100  | 67   | 63   | 73   |
| 32B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |
| 32C     | UBI 1484            | 2.00 L   | 1.500 LB/AC | LP        |                                  |      |      |      |      |      |
| 32D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | LP        |                                  |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7033 SOYBEAN POSTEMERGENCE III

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|----------------------------------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                             | GIFT | GRFT | JIWE | COLQ | TAMG |
| 33A     | SETHOXYDIM           | 1.53 EC  | .200 LB/AC  | MP        | 7                                | 100  | 100  | 83   | 73   | 90   |
| 33B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |
| 33C     | UBI 1484             | 2.00 L   | 1.500 LB/AC | LLP       |                                  |      |      |      |      |      |
| 33D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | LLP       |                                  |      |      |      |      |      |
| 34A     | SETHOXYDIM           | 1.53 EC  | .200 LB/AC  | MP        | 0                                | 100  | 100  | 97   | 40   | 73   |
| 34B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |
| 34C     | UBI 1484             | 2.00 L   | 1.500 LB/AC | LP        |                                  |      |      |      |      |      |
| 34D     | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | LP        |                                  |      |      |      |      |      |
| 35A     | SETHOXYDIM           | 1.53 EC  | .200 LB/AC  | MP        | 0                                | 100  | 100  | 97   | 37   | 53   |
| 35B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |
| 35C     | UBI 1484             | 2.00 L   | 1.500 LB/AC | LP        |                                  |      |      |      |      |      |
| 35D     | 10 34 0              | .00 AD   | 1.000 QT/AC | LP        |                                  |      |      |      |      |      |
| 36A     | SETHOXYDIM           | 1.53 EC  | .200 LB/AC  | MP        | 0                                | 97   | 100  | 80   | 67   | 60   |
| 36B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |
| 36C     | UBI 1484             | 2.00 L   | 1.500 LB/AC | LP        |                                  |      |      |      |      |      |
| 36D     | IMAZAQUIN            | 1.50 AS  | .070 LB/AC  | LP        |                                  |      |      |      |      |      |
| 36E     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | LP        |                                  |      |      |      |      |      |
| 37A     | SETHOXYDIM           | 1.53 EC  | .200 LB/AC  | MP        | 10                               | 100  | 100  | 97   | 83   | 90   |
| 37B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |
| 37C     | UBI 1484             | 2.00 L   | 1.500 LB/AC | LLP       |                                  |      |      |      |      |      |
| 37D     | IMAZAQUIN            | 1.50 AS  | .070 LB/AC  | LLP       |                                  |      |      |      |      |      |
| 37E     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | LLP       |                                  |      |      |      |      |      |
| 38A     | SETHOXYDIM           | 1.53 EC  | .200 LB/AC  | MP        | 0                                | 100  | 100  | 77   | 57   | 67   |
| 38B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |
| 38C     | UBI 1484             | 2.00 L   | 1.500 LB/AC | LP        |                                  |      |      |      |      |      |
| 38D     | CHLORIMURON          | 25.00 DF | .004 LB/AC  | LP        |                                  |      |      |      |      |      |
| 38E     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | LP        |                                  |      |      |      |      |      |
| 39A     | SETHOXYDIM           | 1.53 EC  | .200 LB/AC  | MP        | 0                                | 100  | 100  | 73   | 77   | 47   |
| 39B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |
| 39C     | UBI 1484             | 2.00 L   | 1.500 LB/AC | LP        |                                  |      |      |      |      |      |
| 39D     | LACTOFEN             | 2.00 E   | .090 LB/AC  | LP        |                                  |      |      |      |      |      |
| 39E     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | LP        |                                  |      |      |      |      |      |
| 40A     | SETHOXYDIM           | 1.53 EC  | .200 LB/AC  | MP        | 0                                | 100  | 100  | 83   | 50   | 43   |
| 40B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |
| 40C     | UBI 1484             | 2.00 L   | 1.500 LB/AC | LP        |                                  |      |      |      |      |      |
| 40D     | ACIFLUORFEN 2        | 2.00 L   | .250 LB/AC  | LP        |                                  |      |      |      |      |      |
| 40E     | TRITON AG 98 SURFACT | .00 WA   | .250 %      | LP        |                                  |      |      |      |      |      |

LSD (05) : 2 4 4 24 25 18

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7033 SOYBEAN POSTEMERGENCE III

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM  
FERTILIZATION (LB/AC): 60 N, 60 P, 60 K PH: 6.6 O.M.: 3.6%  
DATE PLANTED: MAY 11 DATE TREATED: RP MAY 22  
VARIETY: WILLAIMS 82 MP (TOTAL POE) MAY 28  
MP (GRASS) JUNE 2  
LP JUNE 8  
+1D JUNE 9  
LLP JUNE 13

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7034 SOYBEAN POSTEMERGENCE IV

| TRT NO. | HERBICIDE TREATMENT  | FORMULA | RATE        | APPL METH | 4 WEEKS AFTER APPLIED |      |      |      |      |      |      |      |      |
|---------|----------------------|---------|-------------|-----------|-----------------------|------|------|------|------|------|------|------|------|
|         |                      |         |             |           | GRAS                  | BRLE | CRIN | GIFT | JIWE | COLQ | ILMG | RRPW | VELE |
| 1A      | TRIFLURALIN          | 4.00 E  | 1.000 LB/AC | PPI       | 52                    | 45   | 0    | 52   | 45   | 80   | 70   | 82   | 70   |
| 1B      | BENTAZON             | 4.00 E  | .330 LB/AC  | EP        |                       |      |      |      |      |      |      |      |      |
| 1C      | ACIFLUORFEN          | 2.00 L  | .170 LB/AC  | EP        |                       |      |      |      |      |      |      |      |      |
| 1D      | OIL CONCENTRATE      | .00 AD  | .500 QT/AC  | EP        |                       |      |      |      |      |      |      |      |      |
| 2A      | TRIFLURALIN          | 4.00 E  | 1.000 LB/AC | PPI       | 50                    | 65   | 0    | 50   | 70   | 88   | 68   | 88   | 85   |
| 2B      | BENTAZON             | 4.00 E  | .330 LB/AC  | MP        |                       |      |      |      |      |      |      |      |      |
| 2C      | ACIFLUORFEN          | 2.00 L  | .170 LB/AC  | MP        |                       |      |      |      |      |      |      |      |      |
| 2D      | OIL CONCENTRATE      | .00 AD  | .500 QT/AC  | MP        |                       |      |      |      |      |      |      |      |      |
| 3A      | TRIFLURALIN          | 4.00 E  | 1.000 LB/AC | PPI       | 60                    | 42   | 0    | 60   | 48   | 85   | 70   | 85   | 62   |
| 3B      | BENTAZON             | 4.00 E  | .500 LB/AC  | EP        |                       |      |      |      |      |      |      |      |      |
| 3C      | ACIFLUORFEN          | 2.00 L  | .250 LB/AC  | EP        |                       |      |      |      |      |      |      |      |      |
| 3D      | OIL CONCENTRATE      | .00 AD  | .500 QT/AC  | EP        |                       |      |      |      |      |      |      |      |      |
| 4A      | TRIFLURALIN          | 4.00 E  | 1.000 LB/AC | PPI       | 48                    | 68   | 0    | 48   | 68   | 98   | 75   | 98   | 90   |
| 4B      | BENTAZON             | 4.00 E  | .500 LB/AC  | MP        |                       |      |      |      |      |      |      |      |      |
| 4C      | ACIFLUORFEN          | 2.00 L  | .250 LB/AC  | MP        |                       |      |      |      |      |      |      |      |      |
| 4D      | OIL CONCENTRATE      | .00 AD  | .500 QT/AC  | MP        |                       |      |      |      |      |      |      |      |      |
| 5A      | TRIFLURALIN          | 4.00 E  | 1.000 LB/AC | PPI       | 48                    | 65   | 0    | 48   | 65   | 90   | 75   | 98   | 92   |
| 5B      | BENTAZON             | 4.00 E  | .750 LB/AC  | MP        |                       |      |      |      |      |      |      |      |      |
| 5C      | ACIFLUORFEN          | 2.00 L  | .250 LB/AC  | MP        |                       |      |      |      |      |      |      |      |      |
| 5D      | OIL CONCENTRATE      | .00 AD  | .500 QT/AC  | MP        |                       |      |      |      |      |      |      |      |      |
| 6A      | TRIFLURALIN          | 4.00 E  | 1.000 LB/AC | PPI       | 60                    | 78   | 0    | 60   | 78   | 98   | 80   | 98   | 95   |
| 6B      | BENTAZON + ACIFLUORF | 4.00 E  | 1.500 LB/AC | MP        |                       |      |      |      |      |      |      |      |      |
| 6C      | OIL CONCENTRATE      | .00 AD  | .500 QT/AC  | MP        |                       |      |      |      |      |      |      |      |      |
| 7       | CHECK (CULTIVATED)   | .00 CK  | .000        |           | 100                   | 100  | 0    | 100  | 100  | 100  | 100  | 100  | 100  |
|         |                      |         | LSD (05):   |           | 18                    | 14   | 0    | 18   | 15   | 11   | 10   | NS   | 12   |

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

FERTILIZATION (LB/AC): 60 N, 60 P, 60 K

PH: 6.3 O.M.: 2.7%

DATE PLANTED: MAY 11

DATE TREATED: PPI MAY 11

VARIETY: WILLIAMS 82

EP MAY 22

MP MAY 26

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7034 SOYBEAN POSTEMERGENCE IV

| TRT NO. | HERBICIDE TREATMENT  | FORMULA | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      |
|---------|----------------------|---------|-------------|-----------|----------------------------------|------|------|------|------|------|------|
|         |                      |         |             |           | CRIN                             | GIFT | COCB | JIWE | COLQ | ILMG | VELE |
| 1A      | TRIFLURALIN          | 4.00 E  | 1.000 LB/AC | PPI       | 0                                | 48   | 75   | 35   | 92   | 78   | 75   |
| 1B      | BENTAZON             | 4.00 E  | .330 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 1C      | ACIFLUORFEN          | 2.00 L  | .170 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 1D      | OIL CONCENTRATE      | .00 AD  | .500 QT/AC  | EP        |                                  |      |      |      |      |      |      |
| 2A      | TRIFLURALIN          | 4.00 E  | 1.000 LB/AC | PPI       | 0                                | 28   | 85   | 75   | 88   | 78   | 92   |
| 2B      | BENTAZON             | 4.00 E  | .330 LB/AC  | MP        |                                  |      |      |      |      |      |      |
| 2C      | ACIFLUORFEN          | 2.00 L  | .170 LB/AC  | MP        |                                  |      |      |      |      |      |      |
| 2D      | OIL CONCENTRATE      | .00 AD  | .500 QT/AC  | MP        |                                  |      |      |      |      |      |      |
| 3A      | TRIFLURALIN          | 4.00 E  | 1.000 LB/AC | PPI       | 0                                | 55   | 65   | 35   | 85   | 78   | 65   |
| 3B      | BENTAZON             | 4.00 E  | .500 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 3C      | ACIFLUORFEN          | 2.00 L  | .250 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 3D      | OIL CONCENTRATE      | .00 AD  | .500 QT/AC  | EP        |                                  |      |      |      |      |      |      |
| 4A      | TRIFLURALIN          | 4.00 E  | 1.000 LB/AC | PPI       | 0                                | 25   | 88   | 68   | 92   | 78   | 98   |
| 4B      | BENTAZON             | 4.00 E  | .500 LB/AC  | MP        |                                  |      |      |      |      |      |      |
| 4C      | ACIFLUORFEN          | 2.00 L  | .250 LB/AC  | MP        |                                  |      |      |      |      |      |      |
| 4D      | OIL CONCENTRATE      | .00 AD  | .500 QT/AC  | MP        |                                  |      |      |      |      |      |      |
| 5A      | TRIFLURALIN          | 4.00 E  | 1.000 LB/AC | PPI       | 0                                | 20   | 92   | 75   | 92   | 80   | 100  |
| 5B      | BENTAZON             | 4.00 E  | .750 LB/AC  | MP        |                                  |      |      |      |      |      |      |
| 5C      | ACIFLUORFEN          | 2.00 L  | .250 LB/AC  | MP        |                                  |      |      |      |      |      |      |
| 5D      | OIL CONCENTRATE      | .00 AD  | .500 QT/AC  | MP        |                                  |      |      |      |      |      |      |
| 6A      | TRIFLURALIN          | 4.00 E  | 1.000 LB/AC | PPI       | 0                                | 22   | 88   | 70   | 95   | 88   | 100  |
| 6B      | BENTAZON + ACIFLUORF | 4.00 E  | 1.500 LB/AC | MP        |                                  |      |      |      |      |      |      |
| 6C      | OIL CONCENTRATE      | .00 AD  | .500 QT/AC  | MP        |                                  |      |      |      |      |      |      |
| 7       | CHECK (CULTIVATED)   | .00 CK  | .000        |           | 0                                | 100  | 100  | 100  | 100  | 100  | 100  |
|         |                      |         | LSD (05) :  |           | 0                                | 19   | 14   | 17   | NS   | 9    | 13   |

LOCATION: SPINDLETOP FARM  
 FERTILIZATION (LB/AC) : 60 N, 60 P, 60 K  
 DATE PLANTED: MAY 11  
 VARIETY: WILLIAMS 82

SOIL TYPE: MAURY SILT LOAM  
 PH: 6.3 O.M.: 2.7%  
 DATE TREATED: PPI MAY 11  
 EP MAY 22  
 MP MAY 26

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7062 SOYBEAN POSTEMERGENCE V

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                      |          |             |           | GRAS                            | BRLE | CRIN | GIFT | COCB | ILMG | PESW | VELE |
| 1A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 77                              | 83   | 0    | 77   | 90   | 80   | 100  | 83   |
| 1B      | ACIFLUORFEN 2        | 2.00 L   | .380 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 1C      | TRITON AG 98 SURFACT | .00 WA   | .250 %      | MP        |                                 |      |      |      |      |      |      |      |
| 2A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 80                              | 80   | 7    | 80   | 100  | 93   | 100  | 70   |
| 2B      | ACIFLUORFEN 2        | 2.00 L   | .250 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 2C      | IMAZAQUIN            | 1.50 AS  | .060 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 2D      | TRITON AG 98 SURFACT | .00 WA   | .250 %      | MP        |                                 |      |      |      |      |      |      |      |
| 3A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 73                              | 67   | 0    | 73   | 100  | 60   | 100  | 67   |
| 3B      | BENAZOLIN            | 4.00 F   | .380 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 3C      | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 4A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 77                              | 77   | 0    | 77   | 70   | 87   | 100  | 90   |
| 4B      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 4C      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |      |
| 5A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 70                              | 90   | 10   | 70   | 100  | 87   | 100  | 100  |
| 5B      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 5C      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 6A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 87                              | 83   | 3    | 87   | 93   | 83   | 100  | 97   |
| 6B      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 6C      | IMAZAQUIN            | 1.50 AS  | .030 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 6D      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 7A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100                             | 90   | 3    | 100  | 100  | 83   | 100  | 93   |
| 7B      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 7C      | IMAZAQUIN            | 1.50 AS  | .063 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 7D      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 8A      | CINMETHYLIN          | 7.00 EC  | 1.000 LB/AC | PRE       | 73                              | 90   | 7    | 73   | 100  | 90   | 100  | 90   |
| 8B      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 8C      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 9A      | BENTAZON             | 4.00 E   | .750 LB/AC  | MP        | 97                              | 73   | 0    | 97   | 93   | 80   | 77   | 100  |
| 9B      | ACIFLUORFEN          | 2.00 L   | .250 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 9C      | FENOXAPROP           | 1.00 EC  | .200 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 9D      | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 10A     | IMAZETHAPYR          | 2.00 AS  | .078 LB/AC  | MP        | 93                              | 93   | 10   | 93   | 100  | 93   | 100  | 100  |
| 10B     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | MP        |                                 |      |      |      |      |      |      |      |
| 11A     | IMAZETHAPYR          | 2.00 AS  | .078 LB/AC  | EP        | 100                             | 100  | 0    | 100  | 100  | 100  | 100  | 100  |
| 11B     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                                 |      |      |      |      |      |      |      |
| 11C     | 10 34 0              | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7062 SOYBEAN POSTEMERGENCE V

| TRT NO.    | HERBICIDE TREATMENT | FORMULA | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|------------|---------------------|---------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|            |                     |         |             |           | GRAS                            | BRLE | CRIN | GIFT | COCB | ILMG | PESW | VELE |
| 12A        | FLUAZIFOP-BUYTL     | 1.00 E  | .188 LB/AC  | MP        | 97                              | 40   | 0    | 97   | 100  | 67   | 30   | 100  |
| 12B        | BENTAZON            | 4.00 E  | .750 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 12C        | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 13A        | FLUAZIFOP-BUYTL     | 1.00 E  | .188 LB/AC  | MP        | 93                              | 47   | 0    | 93   | 90   | 23   | 73   | 90   |
| 13B        | BENTAZON            | 4.00 E  | .750 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 13C        | DAX                 | .00 AD  | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 14A        | FLUAZIFOP-BUYTL     | 1.00 E  | .188 LB/AC  | MP        | 90                              | 90   | 0    | 90   | 93   | 87   | 97   | 93   |
| 14B        | FOMESAFEN           | 2.00 LC | .250 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 14C        | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 15A        | FLUAZIFOP-BUYTL     | 1.00 E  | .188 LB/AC  | MP        | 87                              | 77   | 3    | 87   | 100  | 93   | 77   | 90   |
| 15B        | FOMESAFEN           | 2.00 LC | .250 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 15C        | DAX                 | .00 AD  | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 16A        | FOMESAFEN           | 2.00 LC | .313 LB/AC  | MP        | 93                              | 70   | 17   | 93   | 100  | 93   | 67   | 93   |
| 16B        | FLUAZIFOP-BUYTL     | 1.00 E  | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 16C        | 2,4-DB              | 2.00 E  | .030 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 16D        | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 17A        | SETHOXYDIM          | 1.53 EC | .200 LB/AC  | LP        | 100                             | 60   | 0    | 100  | 100  | 87   | 70   | 100  |
| 17B        | BENTAZON            | 4.00 E  | .500 LB/AC  | LP        |                                 |      |      |      |      |      |      |      |
| 17C        | ACIFLUORFEN         | 2.00 L  | .250 LB/AC  | LP        |                                 |      |      |      |      |      |      |      |
| 17D        | DAX                 | .00 AD  | .500 QT/AC  | LP        |                                 |      |      |      |      |      |      |      |
| 18A        | SETHOXYDIM          | 1.53 EC | .200 LB/AC  | LP        | 100                             | 57   | 0    | 100  | 100  | 80   | 37   | 93   |
| 18B        | BENTAZON            | 4.00 E  | .500 LB/AC  | LP        |                                 |      |      |      |      |      |      |      |
| 18C        | ACIFLUORFEN         | 2.00 L  | .250 LB/AC  | LP        |                                 |      |      |      |      |      |      |      |
| 18D        | DAX                 | .00 AD  | 1.000 QT/AC | LP        |                                 |      |      |      |      |      |      |      |
| 19A        | SETHOXYDIM          | 1.53 EC | .200 LB/AC  | LP        | 97                              | 57   | 0    | 97   | 100  | 63   | 63   | 93   |
| 19B        | BENTAZON            | 4.00 E  | .500 LB/AC  | LP        |                                 |      |      |      |      |      |      |      |
| 19C        | ACIFLUORFEN         | 2.00 S  | .250 LB/AC  | LP        |                                 |      |      |      |      |      |      |      |
| 19D        | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | LP        |                                 |      |      |      |      |      |      |      |
| 20A        | SETHOXYDIM          | 1.53 EC | .200 LB/AC  | MP        | 100                             | 53   | 0    | 100  | 100  | 53   | 100  | 37   |
| 20B        | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 20C        | UBI 1484            | 2.00 L  | 1.500 LB/AC | LP        |                                 |      |      |      |      |      |      |      |
| 20D        | IMAZAQUIN           | 1.50 AS | .070 LB/AC  | LP        |                                 |      |      |      |      |      |      |      |
| 20E        | X-77 (SURFACTANT)   | .50 WA  | .250 %      | LP        |                                 |      |      |      |      |      |      |      |
| LSD (05) : |                     |         |             |           | 11                              | 21   | 9    | 11   | 13   | 25   | 33   | 18   |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7062 SOYBEAN POSTEMERGENCE V

|                        |                  |               |                 |
|------------------------|------------------|---------------|-----------------|
| LOCATION:              | SPINDLETOP FARM  | SOIL TYPE:    | MAURY SILT LOAM |
| FERTILIZATION (LB/AC): | 60 N, 60 P, 60 K | PH:           | 6.5 O.M.: 3.6%  |
| DATE PLANTED:          | MAY 13           | DATE TREATED: | PRE MAY 13      |
| VARIETY:               | WILLIAMS 82      |               | EP MAY 26       |
|                        |                  |               | MP JUNE 1       |
|                        |                  |               | LP JUNE 8       |



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7062 SOYBEAN POSTEMERGENCE V

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA  | RATE        | APPL<br>METH | ---8 WEEKS AFTER APPLIED --- |      |      |      |      |
|------------|------------------------|----------|-------------|--------------|------------------------------|------|------|------|------|
|            |                        |          |             |              | CRIN                         | COCB | ILMG | RRPW | VELE |
| 1A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 0                            | 90   | 73   | 97   | 80   |
| 1B         | ACIFLUORFEN 2          | 2.00 L   | .380 LB/AC  | MP           |                              |      |      |      |      |
| 1C         | TRITON AG 98 SURFACT   | .00 WA   | .250 %      | MP           |                              |      |      |      |      |
| 2A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 0                            | 93   | 90   | 67   | 70   |
| 2B         | ACIFLUORFEN 2          | 2.00 L   | .250 LB/AC  | MP           |                              |      |      |      |      |
| 2C         | IMAZAQUIN              | 1.50 AS  | .060 LB/AC  | MP           |                              |      |      |      |      |
| 2D         | TRITON AG 98 SURFACT   | .00 WA   | .250 %      | MP           |                              |      |      |      |      |
| 3A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 0                            | 93   | 60   | 97   | 63   |
| 3B         | BENAZOLIN              | 4.00 F   | .380 LB/AC  | MP           |                              |      |      |      |      |
| 3C         | OIL CONCENTRATE        | .00 AD   | .500 QT/AC  | MP           |                              |      |      |      |      |
| 4A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 0                            | 67   | 87   | 100  | 93   |
| 4B         | CHLORIMURON            | 25.00 DF | .008 LB/AC  | EP           |                              |      |      |      |      |
| 4C         | X-77 (SURFACTANT)      | .50 WA   | .250 %      | EP           |                              |      |      |      |      |
| 5A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 0                            | 100  | 87   | 97   | 100  |
| 5B         | CHLORIMURON            | 25.00 DF | .008 LB/AC  | EP           |                              |      |      |      |      |
| 5C         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                              |      |      |      |      |
| 6A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 0                            | 87   | 83   | 97   | 97   |
| 6B         | CHLORIMURON            | 25.00 DF | .008 LB/AC  | EP           |                              |      |      |      |      |
| 6C         | IMAZAQUIN              | 1.50 AS  | .030 LB/AC  | EP           |                              |      |      |      |      |
| 6D         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                              |      |      |      |      |
| 7A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 0                            | 100  | 83   | 93   | 90   |
| 7B         | CHLORIMURON            | 25.00 DF | .008 LB/AC  | EP           |                              |      |      |      |      |
| 7C         | IMAZAQUIN              | 1.50 AS  | .063 LB/AC  | EP           |                              |      |      |      |      |
| 7D         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                              |      |      |      |      |
| 8A         | CINMETHYLIN            | 7.00 EC  | 1.000 LB/AC | PRE          | 0                            | 97   | 90   | 97   | 90   |
| 8B         | CHLORIMURON            | 25.00 DF | .008 LB/AC  | MP           |                              |      |      |      |      |
| 8C         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | MP           |                              |      |      |      |      |
| 9A         | BENTAZON               | 4.00 E   | .750 LB/AC  | MP           | 0                            | 93   | 77   | 77   | 97   |
| 9B         | ACIFLUORFEN            | 2.00 L   | .250 LB/AC  | MP           |                              |      |      |      |      |
| 9C         | FENOXAPROP             | 1.00 EC  | .200 LB/AC  | MP           |                              |      |      |      |      |
| 9D         | OIL CONCENTRATE        | .00 AD   | .500 QT/AC  | MP           |                              |      |      |      |      |
| 10A        | IMAZETHAPYR            | 2.00 AS  | .078 LB/AC  | MP           | 0                            | 93   | 90   | 93   | 100  |
| 10B        | X-77 (SURFACTANT)      | .50 WA   | .250 %      | MP           |                              |      |      |      |      |
| 11A        | IMAZETHAPYR            | 2.00 AS  | .078 LB/AC  | EP           | 0                            | 93   | 90   | 100  | 97   |
| 11B        | X-77 (SURFACTANT)      | .50 WA   | .250 %      | EP           |                              |      |      |      |      |
| 11C        | 10 34 0                | .00 AD   | 1.000 QT/AC | EP           |                              |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7062 SOYBEAN POSTEMERGENCE V

| TRT NO.   | HERBICIDE TREATMENT | FORMULA | RATE        | APPL METH | ----8 WEEKS AFTER APPLIED -- |      |      |      |      |
|-----------|---------------------|---------|-------------|-----------|------------------------------|------|------|------|------|
|           |                     |         |             |           | CRIN                         | COCB | ILMG | RRPW | VELE |
| 12A       | FLUAZIFOP-BUYTL     | 1.00 E  | .188 LB/AC  | MP        | 0                            | 97   | 67   | 30   | 93   |
| 12B       | BENTAZON            | 4.00 E  | .750 LB/AC  | MP        |                              |      |      |      |      |
| 12C       | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | MP        |                              |      |      |      |      |
| 13A       | FLUAZIFOP-BUYTL     | 1.00 E  | .188 LB/AC  | MP        | 0                            | 90   | 23   | 40   | 90   |
| 13B       | BENTAZON            | 4.00 E  | .750 LB/AC  | MP        |                              |      |      |      |      |
| 13C       | DAX                 | .00 AD  | 1.000 QT/AC | MP        |                              |      |      |      |      |
| 14A       | FLUAZIFOP-BUYTL     | 1.00 E  | .188 LB/AC  | MP        | 0                            | 90   | 87   | 97   | 90   |
| 14B       | FOMESAFEN           | 2.00 LC | .250 LB/AC  | MP        |                              |      |      |      |      |
| 14C       | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | MP        |                              |      |      |      |      |
| 15A       | FLUAZIFOP-BUYTL     | 1.00 E  | .188 LB/AC  | MP        | 0                            | 97   | 87   | 73   | 83   |
| 15B       | FOMESAFEN           | 2.00 LC | .250 LB/AC  | MP        |                              |      |      |      |      |
| 15C       | DAX                 | .00 AD  | 1.000 QT/AC | MP        |                              |      |      |      |      |
| 16A       | FOMESAFEN           | 2.00 LC | .313 LB/AC  | MP        | 0                            | 97   | 90   | 73   | 90   |
| 16B       | FLUAZIFOP-BUYTL     | 1.00 E  | .188 LB/AC  | MP        |                              |      |      |      |      |
| 16C       | 2,4-DB              | 2.00 E  | .030 LB/AC  | MP        |                              |      |      |      |      |
| 16D       | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | MP        |                              |      |      |      |      |
| 17A       | SETHOXYDIM          | 1.53 EC | .200 LB/AC  | LP        | 0                            | 97   | 83   | 37   | 100  |
| 17B       | BENTAZON            | 4.00 E  | .500 LB/AC  | LP        |                              |      |      |      |      |
| 17C       | ACIFLUORFEN         | 2.00 L  | .250 LB/AC  | LP        |                              |      |      |      |      |
| 17D       | DAX                 | .00 AD  | .500 QT/AC  | LP        |                              |      |      |      |      |
| 18A       | SETHOXYDIM          | 1.53 EC | .200 LB/AC  | LP        | 0                            | 97   | 77   | 37   | 93   |
| 18B       | BENTAZON            | 4.00 E  | .500 LB/AC  | LP        |                              |      |      |      |      |
| 18C       | ACIFLUORFEN         | 2.00 L  | .250 LB/AC  | LP        |                              |      |      |      |      |
| 18D       | DAX                 | .00 AD  | 1.000 QT/AC | LP        |                              |      |      |      |      |
| 19A       | SETHOXYDIM          | 1.53 EC | .200 LB/AC  | LP        | 0                            | 97   | 60   | 30   | 93   |
| 19B       | BENTAZON            | 4.00 E  | .500 LB/AC  | LP        |                              |      |      |      |      |
| 19C       | ACIFLUORFEN         | 2.00 S  | .250 LB/AC  | LP        |                              |      |      |      |      |
| 19D       | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | LP        |                              |      |      |      |      |
| 20A       | SETHOXYDIM          | 1.53 EC | .200 LB/AC  | MP        | 0                            | 100  | 53   | 100  | 50   |
| 20B       | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | MP        |                              |      |      |      |      |
| 20C       | UBI 1484            | 2.00 L  | 1.500 LB/AC | LP        |                              |      |      |      |      |
| 20D       | IMAZAQUIN           | 1.50 AS | .070 LB/AC  | LP        |                              |      |      |      |      |
| 20E       | X-77 (SURFACTANT)   | .50 WA  | .250 †      | LP        |                              |      |      |      |      |
| LSD(05) : |                     |         |             |           | 0                            | 14   | 23   | 40   | 23   |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7062 SOYBEAN POSTEMERGENCE V

|   |                            |
|---|----------------------------|
| LOCATION: SPINDLETOP FARM               | SOIL TYPE: MAURY SILT LOAM |
| FERTILIZATION (LB/AC): 60 N, 60 P, 60 K | PH: 6.5 O.M.: 3.6%         |
| DATE PLANTED: MAY 13                    | DATE TREATED: PRE MAY 13   |
| VARIETY: WILLIAMS 82                    | EP MAY 26                  |
|   | MP JUNE 1                  |
|   | LP JUNE 8                  |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7017 NO-TILL EARLY PREPLANT SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |
|---------|----------------------|---------|-------------|-----------|----------------------------------|------|------|------|------|------|------|----------------------------------|------|------|------|------|
|         |                      |         |             |           | GRAS                             | BRLE | CRIN | LACG | HONE | PRLE | MRTL | CRIN                             | LACG | HONE | PRLE | MRTL |
| 1A      | GLYPHOSATE           | 4.00 E  | 1.000 LB/AC | EPP       | 80                               | 65   | 8    | 80   | 95   | 80   | 90   | 5                                | 78   | 98   | 75   | 88   |
| 1B      | METOLACHLOR          | 8.00 E  | 2.000 LB/AC | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 1C      | IMAZAQUIN            | 1.50 AS | .125 LB/AC  | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 2A      | GLYPHOSATE           | 4.00 E  | 1.000 LB/AC | EPP       | 88                               | 80   | 0    | 88   | 88   | 88   | 95   | 0                                | 95   | 88   | 90   | 100  |
| 2B      | METOLACHLOR          | 8.00 E  | 1.330 LB/AC | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 2C      | IMAZAQUIN            | 1.50 AS | .125 LB/AC  | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 2D      | METOLACHLOR          | 8.00 E  | .660 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 3A      | GLYPHOSATE           | 4.00 E  | 1.000 LB/AC | EPP       | 92                               | 70   | 2    | 92   | 90   | 85   | 92   | 0                                | 95   | 90   | 82   | 88   |
| 3B      | METOLACHLOR          | 8.00 E  | 1.330 LB/AC | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 3C      | IMAZAQUIN            | 1.50 AS | .080 LB/AC  | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 3D      | METOLACHLOR          | 8.00 E  | .660 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 3E      | IMAZAQUIN            | 1.50 AS | .040 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 4A      | GLYPHOSATE           | 4.00 E  | 1.000 LB/AC | EPP       | 100                              | 62   | 0    | 100  | 90   | 62   | 88   | 0                                | 100  | 98   | 68   | 88   |
| 4B      | METOLACHLOR          | 8.00 E  | 2.000 LB/AC | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 4C      | IMAZETHAPYR          | 2.00 AS | .063 LB/AC  | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 5A      | GLYPHOSATE           | 4.00 E  | 1.000 LB/AC | EPP       | 98                               | 58   | 0    | 98   | 95   | 70   | 90   | 0                                | 98   | 95   | 65   | 90   |
| 5B      | METOLACHLOR          | 8.00 E  | 1.330 LB/AC | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 5C      | IMAZETHAPYR          | 2.00 AS | .063 LB/AC  | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 5D      | METOLACHLOR          | 8.00 E  | .660 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 6A      | GLYPHOSATE           | 4.00 E  | 1.000 LB/AC | EPP       | 100                              | 58   | 0    | 100  | 98   | 60   | 88   | 0                                | 100  | 100  | 52   | 88   |
| 6B      | METOLACHLOR          | 8.00 E  | 1.330 LB/AC | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 6C      | IMAZETHAPYR          | 2.00 AS | .041 LB/AC  | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 6D      | METOLACHLOR          | 8.00 E  | .660 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 6E      | IMAZETHAPYR          | 2.00 AS | .021 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 7A      | GLYPHOSATE           | 4.00 E  | 1.000 LB/AC | PRE       | 95                               | 58   | 18   | 95   | 95   | 80   | 85   | 5                                | 95   | 98   | 78   | 72   |
| 7B      | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 7C      | IMAZAQUIN            | 1.50 AS | .125 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 8A      | GLYPHOSATE           | 4.00 E  | 1.000 LB/AC | EPP       | 98                               | 72   | 2    | 98   | 95   | 82   | 92   | 0                                | 98   | 98   | 82   | 95   |
| 8B      | IMAZAQUIN            | 1.50 AS | .125 LB/AC  | EPP       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 8C      | IMAZAQUIN            | 1.50 AS | .060 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 9A      | GLYPHOSATE           | 4.00 E  | 1.000 LB/AC | PRE       | 88                               | 78   | 22   | 88   | 100  | 92   | 95   | 10                               | 80   | 100  | 92   | 95   |
| 9B      | PENDAMETHALIN + IMAZ | 2.33 EC | .870 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 10A     | PENDIMETHALIN        | 4.00 E  | 1.000 LB/AC | PRE       | 95                               | 75   | 18   | 95   | 98   | 88   | 92   | 8                                | 95   | 95   | 85   | 92   |
| 10B     | IMAZAQUIN            | 1.50 AS | .125 LB/AC  | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 10C     | GLYPHOSATE           | 4.00 E  | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7017 NO-TILL EARLY PREPLANT SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA   | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED ----- |      |      |      | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      |      |
|---------|----------------------|-----------|-------------|-----------|----------------------------------|------|------|------|----------------------------------|------|------|------|------|------|------|------|
|         |                      |           |             |           | GRAS                             | BRLE | CRIN | LACG | HONE                             | PRLE | MRTL | CRIN | LACG | HONE | PRLE | MRTL |
| 11A     | PARA + META + LIN    | 2.75 EC   | 1.380 LB/AC | EPP       | 85                               | 92   | 0    | 85   | 92                               | 100  | 100  | 0    | 95   | 95   | 100  | 100  |
| 11B     | 2,4-D ESTER          | 4.00 E    | .500 LB/AC  | EPP       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 11C     | X-77 (SURFACTANT)    | .50 WA    | .250 %      | EPP       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 11D     | PARA + META + LIN    | 2.75 EC   | 1.380 LB/AC | PRE       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 11E     | DPX 8259             | 60.00 DF  | .750 LB/AC  | PRE       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 11F     | X-77 (SURFACTANT)    | .50 WA    | .250 %      | PRE       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 12A     | PARA + META + LIN    | 2.75 EC   | 1.380 LB/AC | EPP       | 88                               | 92   | 0    | 88   | 92                               | 100  | 100  | 0    | 88   | 95   | 100  | 100  |
| 12B     | 2,4-D ESTER          | 4.00 E    | .500 LB/AC  | EPP       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 12C     | X-77 (SURFACTANT)    | .50 WA    | .250 %      | EPP       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 12D     | PARAQUAT             | 1.50 S    | .280 LB/AC  | PRE       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 12E     | DPX 8259             | 60.00 DF  | .750 LB/AC  | PRE       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 12F     | X-77 (SURFACTANT)    | .50 WA    | .250 %      | PRE       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 13A*    | PARA + META + LIN    | 2.75 EC   | 1.380 LB/AC | EPP       | 82                               | 85   | 0    | 82   | 85                               | 100  | 100  | 0    | 95   | 95   | 100  | 100  |
| 13B     | 2,4-D ESTER          | 4.00 E    | .500 LB/AC  | EPP       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 13C     | X-77 (SURFACTANT)    | .50 WA    | .250 %      | EPP       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 13D     | PARAQUAT             | 1.50 S    | .280 LB/AC  | PRE       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 13E     | CHLORIMURON + METRIB | 75.00 DF  | .500 LB/AC  | PRE       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 13F     | X-77 (SURFACTANT)    | .50 WA    | .250 %      | PRE       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 14A     | 2,4-D ESTER          | 4.00 E    | .500 LB/AC  | EPP       | 80                               | 88   | 2    | 80   | 92                               | 100  | 100  | 2    | 90   | 95   | 100  | 100  |
| 14B     | PARAQUAT             | 1.50 S    | .380 LB/AC  | PRE       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 14C     | CHLORIMURON + METRIB | 75.00 DF  | .500 LB/AC  | PRE       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 14D     | X-77 (SURFACTANT)    | .50 WA    | .250 %      | PRE       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 15A     | IMAZETHAPYR          | 2.00 AS   | .078 LB/AC  | EPP       | 100                              | 62   | 0    | 100  | 95                               | 68   | 92   | 0    | 100  | 98   | 65   | 90   |
| 15B     | GLYPHOSATE           | 4.00 E    | 1.000 LB/AC | EPP       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 16A     | IMAZETHAPYR          | 2.00 AS   | .094 LB/AC  | EPP       | 100                              | 35   | 32   | 100  | 100                              | 38   | 65   | 15   | 100  | 100  | 40   | 62   |
| 16B     | GLYPHOSATE           | 4.00 E    | 1.000 LB/AC | EPP       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 17A     | IMAZETHAPYR          | 2.00 AS   | .078 LB/AC  | EPP       | 98                               | 90   | 0    | 98   | 92                               | 100  | 98   | 0    | 98   | 95   | 100  | 98   |
| 17B     | 2,4-D ESTER          | 4.00 E    | 1.000 LB/AC | EPP       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 18A     | IMAZETHAPYR          | 2.00 AS   | .094 LB/AC  | EPP       | 98                               | 90   | 2    | 98   | 95                               | 100  | 100  | 2    | 100  | 95   | 100  | 100  |
| 18B     | 2,4-D ESTER          | 4.00 E    | 1.000 LB/AC | EPP       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 19A     | ALACHLOR + IMAZAQUIN | 74.00 WDG | 2.125 LB/AC | -45       | 95                               | 88   | 8    | 95   | 90                               | 100  | 100  | 0    | 95   | 92   | 100  | 100  |
| 19B     | GLYPHOSATE           | 4.00 E    | 2.000 LB/AC | PRE       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 20A     | ALACHLOR + IMAZAQUIN | 74.00 WDG | 2.125 LB/AC | EPP       | 92                               | 85   | 5    | 92   | 92                               | 100  | 95   | 0    | 92   | 95   | 100  | 95   |
| 20B     | GLYPHOSATE           | 4.00 E    | 2.000 LB/AC | PRE       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |
| 21A     | ALACHLOR + IMAZAQUIN | 74.00 WDG | 2.125 LB/AC | PRE       | 100                              | 88   | 25   | 100  | 92                               | 98   | 100  | 2    | 92   | 90   | 98   | 100  |
| 21B     | GLYPHOSATE           | 4.00 E    | 2.000 LB/AC | PRE       |                                  |      |      |      |                                  |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7017 NO-TILL EARLY PREPLANT SOYBEANS

| TRT NO.   | HERBICIDE TREATMENT  | FORMULA | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |
|-----------|----------------------|---------|-------------|-----------|----------------------------------|------|------|------|------|------|------|----------------------------------|------|------|------|------|
|           |                      |         |             |           | GRAS                             | BRLE | CRIN | LACG | HONE | PRLE | MRTL | CRIN                             | LACG | HONE | PRLE | MRTL |
| 22A       | PENDAMETHALIN + IMAZ | 2.33 EC | .870 LB/AC  | -45       | 92                               | 85   | 2    | 92   | 85   | 100  | 100  | 0                                | 92   | 92   | 100  | 100  |
| 22B       | GLYPHOSATE           | 4.00 E  | 2.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 23A       | PENDAMETHALIN + IMAZ | 2.33 EC | .870 LB/AC  | EPP       | 100                              | 85   | 0    | 100  | 98   | 100  | 92   | 0                                | 100  | 98   | 100  | 95   |
| 23B       | GLYPHOSATE           | 4.00 E  | 2.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| 24A       | PENDAMETHALIN + IMAZ | 2.33 EC | .870 LB/AC  | PRE       | 82                               | 88   | 28   | 82   | 98   | 98   | 100  | 10                               | 80   | 98   | 100  | 98   |
| 24B       | GLYPHOSATE           | 4.00 E  | 2.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |                                  |      |      |      |      |
| LSD (05): |                      |         |             |           | 15                               | 19   | 10   | 15   | NS   | 15   | 12   | 6                                | 14   | NS   | 19   | 13   |

LOCATION: SPINDLETOP FARM  
 FERTILIZATION (LB/AC): 60 N, 60 P, 60 K  
 DATE PLANTED: MAY 14  
 VARIETY: WILLIAMS 82

SOIL TYPE: MAURY SILT LOAM  
 PH: 6.5 O.M.: 3.0%  
 DATE TREATED: -45D, EPP APRIL 27  
 PRE MAY 14

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7032 NO-TILL EARLY PREPLANT SOYBEANS II

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED |      |      |      |      |      | -----8 WEEKS AFTER APPL |      |      |      |
|---------|---------------------|----------|-------------|-----------|----------------------------|------|------|------|------|------|-------------------------|------|------|------|
|         |                     |          |             |           | GRAS                       | BRLE | GIFT | HONE | PRLE | MRTL | GIFT                    | HONE | PRLE | MRTL |
| 1A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 60                         | 55   | 60   | 88   | 70   | 78   | 8                       | 60   | 82   | 65   |
| 1B      | METRIBUZIN          | 75.00 DF | .500 LB/AC  | PRE       |                            |      |      |      |      |      |                         |      |      |      |
| 1C      | GLYPHOSATE          | 4.00 E   | 1.000 LB/AC | PRE       |                            |      |      |      |      |      |                         |      |      |      |
| 2A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 40                         | 40   | 40   | 72   | 58   | 70   | 2                       | 42   | 82   | 58   |
| 2B      | METRIBUZIN          | 75.00 DF | .500 LB/AC  | PRE       |                            |      |      |      |      |      |                         |      |      |      |
| 2C      | PARAQUAT            | 1.50 S   | .250 LB/AC  | PRE       |                            |      |      |      |      |      |                         |      |      |      |
| 2D      | X-77 (SURFACTANT)   | .50 WA   | .250 %      | PRE       |                            |      |      |      |      |      |                         |      |      |      |
| 3A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | 2WP       | 40                         | 12   | 40   | 95   | 20   | 45   | 15                      | 40   | 95   | 18   |
| 3B      | CYANAZINE           | 4.00 L   | .250 LB/AC  | 2WP       |                            |      |      |      |      |      |                         |      |      |      |
| 4A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | 2WP       | 45                         | 28   | 45   | 80   | 30   | 60   | 18                      | 38   | 80   | 30   |
| 4B      | CYANAZINE           | 4.00 L   | .500 LB/AC  | 2WP       |                            |      |      |      |      |      |                         |      |      |      |
| 5A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | 2WP       | 35                         | 12   | 35   | 82   | 18   | 52   | 18                      | 38   | 85   | 22   |
| 5B      | CYANAZINE           | 4.00 L   | 1.000 LB/AC | 2WP       |                            |      |      |      |      |      |                         |      |      |      |
| 6A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | 2WP       | 30                         | 22   | 30   | 82   | 40   | 58   | 10                      | 32   | 85   | 35   |
| 6B      | CYANAZINE           | 4.00 L   | 1.250 LB/AC | 2WP       |                            |      |      |      |      |      |                         |      |      |      |
| 7A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | 2WP       | 18                         | 32   | 18   | 92   | 45   | 70   | 15                      | 15   | 98   | 45   |
| 7B      | CYANAZINE           | 4.00 L   | .250 LB/AC  | 2WP       |                            |      |      |      |      |      |                         |      |      |      |
| 7C      | CHLORIMURON         | 25.00 DF | .047 LB/AC  | 2WP       |                            |      |      |      |      |      |                         |      |      |      |
| 8A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | 2WP       | 20                         | 60   | 20   | 80   | 72   | 90   | 10                      | 18   | 85   | 72   |
| 8B      | CYANAZINE           | 4.00 L   | .500 LB/AC  | 2WP       |                            |      |      |      |      |      |                         |      |      |      |
| 8C      | CHLORIMURON         | 25.00 DF | .047 LB/AC  | 2WP       |                            |      |      |      |      |      |                         |      |      |      |
| 9A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | 2WP       | 28                         | 45   | 28   | 72   | 65   | 70   | 2                       | 32   | 78   | 65   |
| 9B      | CYANAZINE           | 4.00 L   | 1.000 LB/AC | 2WP       |                            |      |      |      |      |      |                         |      |      |      |
| 9C      | CHLORIMURON         | 25.00 DF | .047 LB/AC  | 2WP       |                            |      |      |      |      |      |                         |      |      |      |
| 10A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | 2WP       | 10                         | 60   | 10   | 88   | 72   | 85   | 2                       | 10   | 90   | 65   |
| 10B     | CYANAZINE           | 4.00 L   | 1.250 LB/AC | 2WP       |                            |      |      |      |      |      |                         |      |      |      |
| 10C     | CHLORIMURON         | 25.00 DF | .047 LB/AC  | 2WP       |                            |      |      |      |      |      |                         |      |      |      |
| 11A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | 2WP       | 32                         | 68   | 32   | 65   | 90   | 100  | 0                       | 32   | 75   | 92   |
| 11B     | CHLORIMURON         | 25.00 DF | .047 LB/AC  | 2WP       |                            |      |      |      |      |      |                         |      |      |      |
| 11C     | GLYPHOSATE          | 4.00 E   | 1.000 LB/AC | 2WP       |                            |      |      |      |      |      |                         |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7032 NO-TILL EARLY PREPLANT SOYBEANS II

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED ----- |      |      |      |      | ---8 WEEKS AFTER APPL |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|----------------------------------|------|------|------|------|-----------------------|------|------|------|------|
|         |                      |          |             |           | GRAS                             | BRLE | GIFT | HONE | PRLE | MRTL                  | GIFT | HONE | PRLE | MRTL |
| 12A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | 2WP       | 42                               | 72   | 42   | 75   | 90   | 88                    | 0    | 40   | 82   | 90   |
| 12B     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | 2WP       |                                  |      |      |      |      |                       |      |      |      |      |
| 12C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | 2WP       |                                  |      |      |      |      |                       |      |      |      |      |
| 13A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | 2WP       | 30                               | 75   | 30   | 82   | 92   | 85                    | 5    | 35   | 88   | 95   |
| 13B     | CHLORIMURON + METRIB | 75.00 DF | .375 LB/AC  | 2WP       |                                  |      |      |      |      |                       |      |      |      |      |
| 13C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | 2WP       |                                  |      |      |      |      |                       |      |      |      |      |
| 14A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | 2WP       | 70                               | 42   | 70   | 78   | 52   | 88                    | 5    | 78   | 80   | 52   |
| 14B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | 2WP       |                                  |      |      |      |      |                       |      |      |      |      |
| 14C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | 2WP       |                                  |      |      |      |      |                       |      |      |      |      |
| 15A     | PARAQUAT             | 1.50 S   | .500 LB/AC  | PRE       | 98                               | 42   | 98   | 90   | 75   | 52                    | 12   | 98   | 90   | 72   |
| 15B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                  |      |      |      |      |                       |      |      |      |      |
| 15C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |                       |      |      |      |      |
| 15D     | RE 45601             | 2.00 EC  | .125 LB/AC  | LP        |                                  |      |      |      |      |                       |      |      |      |      |
| 15E     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | LP        |                                  |      |      |      |      |                       |      |      |      |      |
| 16A     | PARAQUAT             | 1.50 S   | .500 LB/AC  | PRE       | 72                               | 38   | 72   | 38   | 78   | 70                    | 12   | 72   | 32   | 80   |
| 16B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       |                                  |      |      |      |      |                       |      |      |      |      |
| 16C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |                       |      |      |      |      |
| 16D     | RE 45601             | 2.00 EC  | .125 LB/AC  | LP        |                                  |      |      |      |      |                       |      |      |      |      |
| 16E     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | LP        |                                  |      |      |      |      |                       |      |      |      |      |
| 17A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 82                               | 52   | 82   | 78   | 72   | 85                    | 20   | 82   | 78   | 70   |
| 17B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                  |      |      |      |      |                       |      |      |      |      |
| 17C     | RE 45601             | 2.00 EC  | .125 LB/AC  | LP        |                                  |      |      |      |      |                       |      |      |      |      |
| 17D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | LP        |                                  |      |      |      |      |                       |      |      |      |      |
| 18A     | METALACHLOR + METRIB | 8.00 EC  | 2.500 LB/AC | EPP       | 48                               | 62   | 48   | 72   | 100  | 100                   | 0    | 32   | 75   | 100  |
| 18B     | 2,4-D ESTER          | 4.00 E   | 1.000 LB/AC | EPP       |                                  |      |      |      |      |                       |      |      |      |      |
| 18C     | METALACHLOR + METRIB | 8.00 EC  | .750 LB/AC  | PRE       |                                  |      |      |      |      |                       |      |      |      |      |
| 18D     | METRIBUZIN 1         | 4.00 F   | .250 LB/AC  | PRE       |                                  |      |      |      |      |                       |      |      |      |      |
| 19A     | METALACHLOR + METRIB | 8.00 EC  | 2.500 LB/AC | EPP       | 72                               | 60   | 72   | 60   | 100  | 100                   | 8    | 62   | 68   | 100  |
| 19B     | METALACHLOR + METRIB | 8.00 EC  | .750 LB/AC  | PRE       |                                  |      |      |      |      |                       |      |      |      |      |
| 19C     | METRIBUZIN 1         | 4.00 F   | .250 LB/AC  | PRE       |                                  |      |      |      |      |                       |      |      |      |      |
| 20A     | METALACHLOR + METRIB | 8.00 EC  | 2.750 LB/AC | PRE       | 48                               | 28   | 48   | 75   | 32   | 55                    | 5    | 50   | 75   | 35   |
| 20B     | GLYPHOSATE           | 4.00 E   | .500 LB/AC  | PRE       |                                  |      |      |      |      |                       |      |      |      |      |
| 20C     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                  |      |      |      |      |                       |      |      |      |      |



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7032 NO-TILL EARLY PREPLANT SOYBEANS II

| TRT NO.   | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED ----- |      |      |      |      |      | ---8 WEEKS AFTER APPL |      |      |      |
|-----------|----------------------|----------|-------------|-----------|----------------------------------|------|------|------|------|------|-----------------------|------|------|------|
|           |                      |          |             |           | GRAS                             | BRLE | GIFT | HONE | PRLE | MRTL | GIFT                  | HONE | PRLE | MRTL |
| 21A       | RE 45601             | 2.00 EC  | .125 LB/AC  | -7D       | 35                               | 75   | 35   | 75   | 100  | 98   | 12                    | 30   | 75   | 100  |
| 21B       | 2,4-D ESTER          | 4.00 E   | .500 LB/AC  | -7D       |                                  |      |      |      |      |      |                       |      |      |      |
| 21C       | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | -7D       |                                  |      |      |      |      |      |                       |      |      |      |
| 21D       | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                  |      |      |      |      |      |                       |      |      |      |
| 21E       | METOLACHLOR          | 8.00 E   | .500 LB/AC  | PRE       |                                  |      |      |      |      |      |                       |      |      |      |
| 22A       | RE 45601             | 2.00 EC  | .125 LB/AC  | -7D       | 90                               | 68   | 90   | 75   | 100  | 90   | 0                     | 95   | 70   | 100  |
| 22B       | 2,4-D ESTER          | 4.00 E   | .500 LB/AC  | -7D       |                                  |      |      |      |      |      |                       |      |      |      |
| 22C       | METRIBUZIN           | 75.00 DF | .500 LB/AC  | -7D       |                                  |      |      |      |      |      |                       |      |      |      |
| 22D       | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | -7D       |                                  |      |      |      |      |      |                       |      |      |      |
| 22E       | RE 45601             | 2.00 EC  | .125 LB/AC  | LP        |                                  |      |      |      |      |      |                       |      |      |      |
| 22F       | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | LP        |                                  |      |      |      |      |      |                       |      |      |      |
| 23A       | RE 45601             | 2.00 EC  | .125 LB/AC  | PRE       | 32                               | 78   | 32   | 90   | 85   | 85   | 8                     | 18   | 92   | 80   |
| 23B       | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       |                                  |      |      |      |      |      |                       |      |      |      |
| 23C       | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                  |      |      |      |      |      |                       |      |      |      |
| 24A       | RE 45601             | 2.00 EC  | .125 LB/AC  | PRE       | 68                               | 18   | 65   | 88   | 40   | 20   | 20                    | 72   | 82   | 35   |
| 24B       | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                  |      |      |      |      |      |                       |      |      |      |
| 24C       | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                  |      |      |      |      |      |                       |      |      |      |
| LSD (05): |                      |          |             |           | 24                               | 24   | 25   | 23   | 26   | 31   | 27                    | 22   | 27   | 35   |

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

FERTILIZATION (LB/AC): 60 N, 60 P, 60 K

PH: 6.5 O.M.: 3.4%

DATE PLANTED: MAY 14

DATE TREATED: EPP APRIL 27

VARIETY: WILLIAMS 82

2WP MAY 1  
-7D MAY 8  
PRE MAY 14  
LP JUNE 8

ALL SELECT TREATMENTS POSTEMERGENCE ARE 10 GPA  
TREATMENT 20 10 GPA

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7035 FULL SEASON NO-TILL SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |     |      |      |      |  |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|-----|------|------|------|--|
|         |                      |          |             |           | GRAS                            | BRLE | CRIN | GIFT | ILMG | BLNS | PSI | PESW | HHCL | MRTL |  |
| 1A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 92                              | 75   | 0    | 92   | 90   | 100  | 88  | 92   | 90   | 80   |  |
| 1B      | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 1C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 1D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 2A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 85                              | 82   | 0    | 85   | 85   | 92   | 92  | 95   | 95   | 92   |  |
| 2B      | METRIBUZIN 1         | 4.00 F   | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 2C      | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 3A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 80   | 0    | 90   | 100  | 92   | 92  | 85   | 92   | 88   |  |
| 3B      | LINURON              | 4.00 L   | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 3C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 3D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 3E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |     |      |      |      |  |
| 3F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |     |      |      |      |  |
| 4A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 88                              | 88   | 0    | 85   | 95   | 98   | 90  | 90   | 98   | 95   |  |
| 4B      | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 4C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 4D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 4E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |     |      |      |      |  |
| 4F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |     |      |      |      |  |
| 5A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 85                              | 90   | 0    | 85   | 100  | 95   | 92  | 100  | 92   | 90   |  |
| 5B      | METRIBUZIN 2         | 75.00 DF | .280 LB/AC  | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 5C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 5D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 5E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |     |      |      |      |  |
| 5F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |     |      |      |      |  |
| 6A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 75   | 0    | 90   | 98   | 98   | 95  | 80   | 92   | 98   |  |
| 6B      | METRIBUZIN 2         | 75.00 DF | .375 LB/AC  | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 6C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 6D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 6E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |     |      |      |      |  |
| 6F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |     |      |      |      |  |
| 7A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 78   | 0    | 90   | 92   | 88   | 95  | 85   | 100  | 82   |  |
| 7B      | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 7C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |
| 7D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |     |      |      |      |  |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7035 FULL SEASON NO-TILL SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |      |      |  |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|------|------|--|
|         |                      |          |             |           | GRAS                            | BRLE | CRIN | GIFT | ILMG | BLNS | PRSI | PESW | HHCL | MRTL |  |
| 8A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 92                              | 82   | 5    | 92   | 98   | 92   | 95   | 90   | 98   | 85   |  |
| 8B      | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 8C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 8D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 9A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 88   | 0    | 90   | 100  | 90   | 98   | 92   | 95   | 100  |  |
| 9B      | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 9C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 9D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 9E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 9F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 10A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 82                              | 88   | 0    | 82   | 100  | 90   | 92   | 92   | 100  | 100  |  |
| 10B     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 10C     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 10D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 10E     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 10F     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 11A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 90   | 0    | 90   | 100  | 95   | 95   | 100  | 100  | 90   |  |
| 11B     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 11C     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 11D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 12A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 88                              | 82   | 0    | 88   | 95   | 92   | 92   | 95   | 100  | 82   |  |
| 12B     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 12C     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 12D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 13A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 80   | 0    | 90   | 100  | 90   | 95   | 80   | 100  | 100  |  |
| 13B     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 13C     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 13D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 13E     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 13F     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 14A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 92   | 0    | 90   | 98   | 98   | 95   | 95   | 100  | 100  |  |
| 14B     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 14C     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 14D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 14E     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 14F     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7035 FULL SEASON NO-TILL SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |      |      |  |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|------|------|--|
|         |                      |          |             |           | GRAS                            | BRLE | CRIN | GIFT | ILMG | BLNS | PRSI | PESW | HHCL | MRTL |  |
| 15A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 70   | 0    | 90   | 100  | 100  | 92   | 85   | 95   | 78   |  |
| 15B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 15C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 15D     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 15E     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 16A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 90                              | 78   | 0    | 90   | 90   | 100  | 90   | 92   | 90   | 82   |  |
| 16B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 16C     | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 17A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 92                              | 85   | 0    | 92   | 90   | 92   | 95   | 95   | 98   | 92   |  |
| 17B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 17C     | METRIBUZIN 1         | 4.00 F   | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 18A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 90                              | 85   | 0    | 90   | 95   | 90   | 92   | 88   | 100  | 95   |  |
| 18B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 18C     | CHLORIMURON + METRIB | 75.00 DF | .380 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 19A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 90                              | 88   | 0    | 90   | 100  | 92   | 92   | 95   | 100  | 90   |  |
| 19B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 19C     | CHLORIMURON + METRIB | 75.00 DF | .560 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 20A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 85                              | 88   | 0    | 85   | 95   | 95   | 92   | 90   | 95   | 92   |  |
| 20B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 20C     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 21A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 90                              | 90   | 0    | 90   | 100  | 95   | 92   | 95   | 95   | 100  |  |
| 21B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 21C     | DPX 8259             | 60.00 DF | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 22A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 95                              | 78   | 0    | 95   | 95   | 100  | 95   | 95   | 78   | 88   |  |
| 22B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 22C     | IMAZETHAPYR          | 2.00 AS  | .063 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 23A     | ALACHLOR + GLYPHOSAT | 4.00 E   | 3.000 LB/AC | PRE       | 90                              | 85   | 0    | 90   | 92   | 100  | 92   | 98   | 92   | 92   |  |
| 23B     | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 24A     | ALACHLOR + GLYPHOSAT | 4.00 E   | 3.000 LB/AC | PRE       | 88                              | 68   | 0    | 88   | 92   | 95   | 95   | 92   | 72   | 92   |  |
| 24B     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7035 FULL SEASON NO-TILL SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|------|------|
|         |                      |          |             |           | GRAS                            | BRLE | CRIN | GIFT | ILMG | BLNS | PRSI | PESW | HHCL | MRTL |
| 25A     | ALACHLOR + GLYPHOSAT | 4.00 E   | 3.000 LB/AC | PRE       | 90                              | 85   | 0    | 90   | 95   | 95   | 95   | 88   | 92   | 92   |
| 25B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 26A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 92                              | 70   | 0    | 92   | 98   | 95   | 92   | 88   | 100  | 70   |
| 26B     | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 26C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 27A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 90                              | 58   | 0    | 90   | 95   | 100  | 92   | 78   | 95   | 55   |
| 27B     | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 27C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 27D     | 2,4-DB               | 2.00 E   | .030 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |      |      |
| 28A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 92                              | 72   | 0    | 92   | 85   | 85   | 92   | 85   | 100  | 82   |
| 28B     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 28C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 29A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 92                              | 70   | 0    | 92   | 90   | 95   | 95   | 90   | 100  | 70   |
| 29B     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 29C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 29D     | 2,4-DB               | 2.00 E   | .030 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |      |      |
| 30A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 90                              | 78   | 0    | 90   | 100  | 80   | 95   | 88   | 95   | 95   |
| 30B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 30C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 31A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 90                              | 82   | 0    | 90   | 100  | 82   | 90   | 90   | 100  | 92   |
| 31B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 31C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 31D     | 2,4-DB               | 2.00 E   | .030 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |      |      |
| 32A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 92                              | 88   | 0    | 92   | 95   | 92   | 85   | 90   | 100  | 85   |
| 32B     | DPX 8259             | 60.00 DF | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 32C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 33A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 90                              | 85   | 0    | 90   | 100  | 90   | 92   | 92   | 100  | 90   |
| 33B     | DPX 8259             | 60.00 DF | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 33C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 33D     | 2,4-DB               | 2.00 E   | .030 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |      |      |
| 34A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 92                              | 68   | 0    | 92   | 100  | 95   | 95   | 88   | 95   | 65   |
| 34B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 34C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7035 FULL SEASON NO-TILL SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|------|------|
|         |                      |          |             |           | GRAS                            | BRLE | CRIN | GIFT | ILMG | BLNS | PRSI | PESW | HHCL | MRTL |
| 35A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 92                              | 70   | 0    | 92   | 95   | 90   | 95   | 95   | 95   | 68   |
| 35B     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 35C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 36A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 95                              | 70   | 0    | 95   | 90   | 100  | 90   | 90   | 92   | 70   |
| 36B     | LINURON              | 4.00 L   | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 36C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 37A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 92                              | 62   | 0    | 92   | 100  | 90   | 92   | 75   | 100  | 65   |
| 37B     | 2,4-DB               | 2.00 E   | .030 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 37C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 38A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 88                              | 82   | 0    | 88   | 95   | 82   | 95   | 100  | 100  | 92   |
| 38B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 38C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 39A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 90                              | 82   | 0    | 90   | 98   | 92   | 92   | 82   | 100  | 95   |
| 39B     | DPX 8259             | 60.00 DF | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 39C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 40A     | HOE 39866            | 1.67 AS  | .750 LB/AC  | PRE       | 92                              | 85   | 0    | 92   | 100  | 85   | 90   | 95   | 100  | 95   |
| 40B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 40C     | FENOXAPROP           | 1.00 EC  | .100 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |      |      |
| 40D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |      |      |
| 41A     | HOE 39866            | 1.67 AS  | .750 LB/AC  | PRE       | 92                              | 85   | 0    | 92   | 98   | 85   | 95   | 90   | 98   | 100  |
| 41B     | CHLORIMURON          | 25.00 DF | .047 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 41C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 41D     | FENOXAPROP           | 1.00 EC  | .100 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |      |      |
| 41E     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |      |      |
| 42A     | HOE 39866            | 1.67 AS  | .500 LB/AC  | PRE       | 90                              | 80   | 0    | 90   | 95   | 100  | 95   | 90   | 90   | 88   |
| 42B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 42C     | FENOXAPROP           | 1.00 EC  | 1.000 LB/AC | MP        |                                 |      |      |      |      |      |      |      |      |      |
| 42D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |      |      |
| 43A     | HOE 39866            | 1.67 AS  | .750 LB/AC  | PRE       | 95                              | 78   | 0    | 95   | 95   | 100  | 95   | 92   | 90   | 88   |
| 43B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |
| 43C     | FENOXAPROP           | 1.00 EC  | .100 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |      |      |
| 43D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7035 FULL SEASON NO-TILL SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |      |      |  |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|------|------|--|
|         |                      |          |             |           | GRAS                            | BRLE | CRIN | GIFT | ILMG | BLNS | PRSI | PESW | HHCL | MRTL |  |
| 44A     | HOE 39866            | 1.67 AS  | .750 LB/AC  | PRE       | 95                              | 80   | 0    | 95   | 95   | 95   | 95   | 92   | 100  | 80   |  |
| 44B     | IMAZETHAPYR          | 2.00 AS  | .094 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 44C     | FENOXAPROP           | 1.00 EC  | .100 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 44D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |      |      |  |
| 45A     | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       | 80                              | 68   | 0    | 80   | 95   | 80   | 100  | 90   | 100  | 80   |  |
| 45B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 46A     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       | 90                              | 75   | 0    | 90   | 98   | 80   | 95   | 92   | 100  | 85   |  |
| 46B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 47A     | CHLORIMURON + METRIB | 75.00 DF | .375 LB/AC  | PRE       | 65                              | 75   | 0    | 65   | 100  | 88   | 92   | 92   | 95   | 90   |  |
| 47B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 48A     | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       | 90                              | 72   | 0    | 90   | 100  | 78   | 90   | 88   | 100  | 85   |  |
| 48B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 48C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 49A     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       | 92                              | 70   | 0    | 92   | 95   | 85   | 95   | 85   | 98   | 80   |  |
| 49B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 49C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 50A     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       | 92                              | 88   | 0    | 92   | 98   | 90   | 92   | 92   | 100  | 95   |  |
| 50B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 50C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 51A     | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       | 90                              | 85   | 0    | 90   | 95   | 88   | 90   | 92   | 100  | 100  |  |
| 51B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 52A     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       | 92                              | 90   | 0    | 92   | 100  | 92   | 90   | 90   | 100  | 95   |  |
| 52B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 53A     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       | 78                              | 78   | 0    | 78   | 100  | 82   | 98   | 82   | 95   | 85   |  |
| 53B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 54A     | DPX 8259             | 60.00 DF | .525 LB/AC  | PRE       | 70                              | 80   | 0    | 70   | 95   | 95   | 95   | 82   | 100  | 82   |  |
| 54B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 55A     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       | 80                              | 78   | 0    | 80   | 100  | 88   | 92   | 92   | 100  | 88   |  |
| 55B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7035 FULL SEASON NO-TILL SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |     |      |      |      |      |      |      |      |      |  |
|---------|----------------------|----------|-------------|-----------|---------------------------------|-----|------|------|------|------|------|------|------|------|--|
|         |                      |          |             |           | GRAS                            | BRL | CRIN | GIFT | ILMG | BLNS | PRSI | PESW | HHCL | MRTL |  |
| 56A     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       | 92                              | 72  | 0    | 92   | 95   | 85   | 95   | 75   | 100  | 88   |  |
| 56B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |     |      |      |      |      |      |      |      |      |  |
| 56C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |     |      |      |      |      |      |      |      |      |  |
| 57A     | DPX 8259             | 60.00 DF | .525 LB/AC  | PRE       | 90                              | 75  | 0    | 90   | 95   | 92   | 100  | 80   | 100  | 82   |  |
| 57B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |     |      |      |      |      |      |      |      |      |  |
| 57C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |     |      |      |      |      |      |      |      |      |  |
| 58A     | DPX 8259             | 60.00 DF | 1.000 LB/AC | PRE       | 88                              | 82  | 0    | 88   | 95   | 92   | 92   | 88   | 100  | 95   |  |
| 58B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |     |      |      |      |      |      |      |      |      |  |
| 58C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |     |      |      |      |      |      |      |      |      |  |
| 59A     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       | 88                              | 88  | 0    | 88   | 92   | 90   | 95   | 92   | 95   | 95   |  |
| 59B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |     |      |      |      |      |      |      |      |      |  |
| 60A     | DPX 8259             | 60.00 DF | .525 LB/AC  | PRE       | 90                              | 85  | 0    | 90   | 95   | 88   | 92   | 90   | 95   | 95   |  |
| 60B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |     |      |      |      |      |      |      |      |      |  |
| 61A     | CINMETHYLIN          | 7.00 EC  | 1.000 LB/AC | PRE       | 80                              | 75  | 0    | 88   | 100  | 98   | 90   | 82   | 98   | 88   |  |
| 61B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |     |      |      |      |      |      |      |      |      |  |
| 61C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |     |      |      |      |      |      |      |      |      |  |
| 61D     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |     |      |      |      |      |      |      |      |      |  |
| 61E     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |     |      |      |      |      |      |      |      |      |  |
| 62A     | ORYZALIN             | 85.00 DF | .500 LB/AC  | PRE       | 90                              | 85  | 0    | 90   | 92   | 95   | 98   | 92   | 92   | 92   |  |
| 62B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                 |     |      |      |      |      |      |      |      |      |  |
| 62C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |     |      |      |      |      |      |      |      |      |  |
| 63A     | ORYZALIN             | 85.00 DF | .500 LB/AC  | PRE       | 92                              | 85  | 0    | 92   | 92   | 88   | 95   | 98   | 100  | 95   |  |
| 63B     | CHLORIMURON + METRIB | 75.00 DF | .380 LB/AC  | PRE       |                                 |     |      |      |      |      |      |      |      |      |  |
| 63C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |     |      |      |      |      |      |      |      |      |  |
| 64A     | ORYZALIN             | 85.00 DF | .500 LB/AC  | PRE       | 92                              | 90  | 0    | 92   | 100  | 95   | 95   | 90   | 95   | 95   |  |
| 64B     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       |                                 |     |      |      |      |      |      |      |      |      |  |
| 64C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |     |      |      |      |      |      |      |      |      |  |
| 65A     | ORYZALIN             | 85.00 DF | .500 LB/AC  | PRE       | 90                              | 90  | 0    | 90   | 100  | 92   | 95   | 90   | 100  | 92   |  |
| 65B     | CHLORIM + LINURON    | 60.00 DF | .520 LB/AC  | PRE       |                                 |     |      |      |      |      |      |      |      |      |  |
| 65C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |     |      |      |      |      |      |      |      |      |  |



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7035 FULL SEASON NO-TILL SOYBEANS

| TRT NO. | HERBICIDE TREATMENT | FORMULA | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |      |      |  |
|---------|---------------------|---------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|------|------|--|
|         |                     |         |             |           | GRAS                            | BRLE | CRIN | GIFT | ILMG | BLNS | PRSI | PESW | HHCL | MRTL |  |
| 66A     | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 90                              | 82   | 0    | 90   | 95   | 98   | 92   | 95   | 90   | 88   |  |
| 66B     | GLYPHOSATE          | 4.00 E  | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 66C     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 67A     | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 92                              | 78   | 0    | 92   | 90   | 100  | 95   | 92   | 82   | 90   |  |
| 67B     | GLYPHOSATE          | 4.00 E  | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 67C     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 68A     | IMAZETHAPYR         | 2.00 AS | .078 LB/AC  | PRE       | 98                              | 80   | 0    | 98   | 95   | 100  | 95   | 98   | 88   | 85   |  |
| 68B     | GLYPHOSATE          | 4.00 E  | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 68C     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 69A     | IMAZETHAPYR         | 2.00 AS | .078 LB/AC  | PRE       | 95                              | 80   | 0    | 95   | 98   | 100  | 95   | 90   | 90   | 88   |  |
| 69B     | GLYPHOSATE          | 4.00 E  | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 69C     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 70A     | IMAZETHAPYR         | 2.00 AS | .094 LB/AC  | PRE       | 92                              | 75   | 0    | 92   | 95   | 100  | 95   | 90   | 88   | 82   |  |
| 70B     | GLYPHOSATE          | 4.00 E  | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 70C     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 71A     | IMAZETHAPYR         | 2.00 AS | .094 LB/AC  | PRE       | 90                              | 82   | 0    | 90   | 98   | 100  | 95   | 92   | 92   | 88   |  |
| 71B     | GLYPHOSATE          | 4.00 E  | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 71C     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 72A     | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 92                              | 80   | 0    | 92   | 98   | 100  | 100  | 98   | 90   | 88   |  |
| 72B     | PENDIMETHALIN       | 4.00 E  | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 72C     | GLYPHOSATE          | 4.00 E  | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 72D     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 73A     | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 90                              | 88   | 0    | 90   | 92   | 100  | 92   | 95   | 92   | 88   |  |
| 73B     | PENDIMETHALIN       | 4.00 E  | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 73C     | GLYPHOSATE          | 4.00 E  | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 73D     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 74A     | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 95                              | 85   | 0    | 95   | 100  | 95   | 95   | 95   | 92   | 90   |  |
| 74B     | ALACHLOR            | 4.00 MT | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 74C     | GLYPHOSATE          | 4.00 E  | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 74D     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 75A     | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 95                              | 75   | 0    | 95   | 95   | 100  | 95   | 92   | 85   | 82   |  |
| 75B     | ALACHLOR            | 4.00 MT | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 75C     | GLYPHOSATE          | 4.00 E  | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |
| 75D     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |      |  |

LSD (05) : 8 11 NS 8 7 8 6 10 10 11

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7035 FULL SEASON NO-TILL SOYBEANS

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM  
FERTILIZATION (LB/AC): 60 N, 60 P, 60 K PH: 6.4 O.M.: 4.5%  
DATE PLANTED: MAY 21 DATE TREATED: PRE MAY 21  
VARIETY: WILLIAMS 82 EP JUNE 17  
MP JULY 9  
TREATMENTS 66-75 ARE 15 GPA

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7035 FULL SEASON NO-TILL SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                            | GIFT | ILMG | BLNS | PRSI | PESW | HHCL | MRTL |
| 1A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 92   | 85   | 100  | 85   | 90   | 88   | 75   |
| 1B      | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 1C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 1D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 2A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 80   | 80   | 90   | 92   | 95   | 92   | 92   |
| 2B      | METRIBUZIN 1         | 4.00 F   | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 2C      | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 3A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 88   | 100  | 92   | 90   | 80   | 90   | 88   |
| 3B      | LINURON              | 4.00 L   | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 3C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 3D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 3E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 3F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 4A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 80   | 95   | 98   | 88   | 90   | 98   | 95   |
| 4B      | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 4C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 4D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 4E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 4F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 5A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 80   | 100  | 95   | 92   | 100  | 92   | 92   |
| 5B      | METRIBUZIN 2         | 75.00 DF | .280 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 5C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 5D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 5E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 5F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 6A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 80   | 98   | 98   | 92   | 80   | 88   | 98   |
| 6B      | METRIBUZIN 2         | 75.00 DF | .375 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 6C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 6D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 6E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 6F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 7A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 90   | 92   | 82   | 95   | 80   | 100  | 80   |
| 7B      | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 7C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 7D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7035 FULL SEASON NO-TILL SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                            | GIFT | ILMG | BLNS | PRSI | PESW | HHCL | MRTL |
| 8A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 92   | 98   | 92   | 92   | 92   | 98   | 80   |
| 8B      | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 8C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 8D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 9A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 88   | 100  | 82   | 95   | 90   | 95   | 100  |
| 9B      | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 9C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 9D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 9E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 9F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 10A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 78   | 100  | 90   | 92   | 90   | 100  | 100  |
| 10B     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 10C     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 10D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 10E     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 10F     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 11A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 88   | 100  | 95   | 95   | 100  | 100  | 88   |
| 11B     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 11C     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 11D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 12A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 88   | 95   | 92   | 92   | 95   | 100  | 82   |
| 12B     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 12C     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 12D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 13A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 90   | 100  | 88   | 95   | 78   | 100  | 100  |
| 13B     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 13C     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 13D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 13E     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 13F     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 14A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 88   | 98   | 98   | 92   | 98   | 100  | 100  |
| 14B     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 14C     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 14D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 14E     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 14F     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |

## DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7035 FULL SEASON NO-TILL SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                            | GIFT | ILMG | BLNS | PRSI | PESW | HHCL | MRTL |
| 15A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                               | 88   | 100  | 100  | 90   | 78   | 95   | 72   |
| 15B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 15C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 15D     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 15E     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 16A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 0                               | 90   | 90   | 100  | 88   | 92   | 88   | 80   |
| 16B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 16C     | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 17A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 0                               | 92   | 90   | 90   | 92   | 92   | 95   | 90   |
| 17B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 17C     | METRIBUZIN 1         | 4.00 F   | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 18A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 0                               | 90   | 95   | 82   | 92   | 90   | 100  | 100  |
| 18B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 18C     | CHLORIMURON + METRIB | 75.00 DF | .380 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 19A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 0                               | 88   | 100  | 90   | 90   | 95   | 100  | 90   |
| 19B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 19C     | CHLORIMURON + METRIB | 75.00 DF | .560 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 20A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 0                               | 82   | 95   | 95   | 92   | 90   | 95   | 92   |
| 20B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 20C     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 21A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 0                               | 90   | 100  | 92   | 92   | 95   | 95   | 100  |
| 21B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 21C     | DPX 8259             | 60.00 DF | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 22A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 0                               | 95   | 95   | 100  | 95   | 95   | 70   | 88   |
| 22B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 22C     | IMAZETHAPYR          | 2.00 AS  | .063 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 23A     | ALACHLOR + GLYPHOSAT | 4.00 E   | 3.000 LB/AC | PRE       | 0                               | 88   | 92   | 100  | 92   | 98   | 88   | 92   |
| 23B     | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 24A     | ALACHLOR + GLYPHOSAT | 4.00 E   | 3.000 LB/AC | PRE       | 0                               | 82   | 90   | 92   | 95   | 92   | 62   | 90   |
| 24B     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7035 FULL SEASON NO-TILL SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                            | GIFT | ILMG | BLNS | PRSI | PESW | HHCL | MRTL |
| 25A     | ALACHLOR + GLYPHOSAT | 4.00 E   | 3.000 LB/AC | PRE       | 0                               | 88   | 95   | 95   | 95   | 82   | 90   | 92   |
| 25B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 26A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 0                               | 90   | 98   | 98   | 90   | 85   | 100  | 60   |
| 26B     | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 26C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 27A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 0                               | 88   | 95   | 100  | 92   | 70   | 92   | 30   |
| 27B     | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 27C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 27D     | 2,4-DB               | 2.00 E   | .030 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 28A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 0                               | 90   | 82   | 82   | 92   | 82   | 100  | 80   |
| 28B     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 28C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 29A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 0                               | 92   | 88   | 92   | 95   | 88   | 100  | 58   |
| 29B     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 29C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 29D     | 2,4-DB               | 2.00 E   | .030 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 30A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 0                               | 90   | 100  | 70   | 95   | 88   | 95   | 95   |
| 30B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 30C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 31A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 0                               | 88   | 100  | 78   | 90   | 90   | 100  | 92   |
| 31B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 31C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 31D     | 2,4-DB               | 2.00 E   | .030 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 32A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 0                               | 90   | 95   | 90   | 95   | 90   | 100  | 82   |
| 32B     | DPX 8259             | 60.00 DF | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 32C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 33A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 0                               | 88   | 100  | 90   | 92   | 90   | 100  | 88   |
| 33B     | DPX 8259             | 60.00 DF | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 33C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 33D     | 2,4-DB               | 2.00 E   | .030 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 34A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 0                               | 92   | 100  | 95   | 95   | 88   | 95   | 50   |
| 34B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 34C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7035 FULL SEASON NO-TILL SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                            | GIFT | ILMG | BLNS | PRSI | PESW | HHCL | MRTL |
| 35A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 0                               | 92   | 95   | 90   | 95   | 95   | 95   | 62   |
| 35B     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 35C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 36A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 0                               | 95   | 90   | 100  | 88   | 88   | 90   | 58   |
| 36B     | LINURON              | 4.00 L   | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 36C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 37A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 0                               | 92   | 100  | 90   | 92   | 70   | 100  | 52   |
| 37B     | 2,4-DB               | 2.00 E   | .030 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 37C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 38A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 0                               | 80   | 95   | 78   | 95   | 100  | 100  | 95   |
| 38B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 38C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 39A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 0                               | 85   | 95   | 90   | 92   | 80   | 100  | 93   |
| 39B     | DPX 8259             | 60.00 DF | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 39C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 40A     | HOE 39866            | 1.67 AS  | .750 LB/AC  | PRE       | 0                               | 92   | 100  | 82   | 90   | 92   | 100  | 95   |
| 40B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 40C     | FENOXAPROP           | 1.00 EC  | .100 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 40D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 41A     | HOE 39866            | 1.67 AS  | .750 LB/AC  | PRE       | 0                               | 92   | 98   | 75   | 95   | 92   | 98   | 100  |
| 41B     | CHLORIMURON          | 25.00 DF | .047 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 41C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 41D     | FENOXAPROP           | 1.00 EC  | .100 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 41E     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 42A     | HOE 39866            | 1.67 AS  | .500 LB/AC  | PRE       | 0                               | 90   | 95   | 100  | 95   | 90   | 88   | 88   |
| 42B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 42C     | FENOXAPROP           | 1.00 EC  | 1.000 LB/AC | MP        |                                 |      |      |      |      |      |      |      |
| 42D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 43A     | HOE 39866            | 1.67 AS  | .750 LB/AC  | PRE       | 0                               | 95   | 95   | 100  | 95   | 90   | 88   | 88   |
| 43B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 43C     | FENOXAPROP           | 1.00 EC  | .100 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 43D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7035 FULL SEASON NO-TILL SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                            | GIFT | ILMG | BLNS | PRSI | PESW | HHCL | MRTL |
| 44A     | HOE 39866            | 1.67 AS  | .750 LB/AC  | PRE       | 0                               | 95   | 95   | 95   | 95   | 92   | 100  | 78   |
| 44B     | IMAZETHAPYR          | 2.00 AS  | .094 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 44C     | FENOXAPROP           | 1.00 EC  | .100 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 44D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                 |      |      |      |      |      |      |      |
| 45A     | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       | 0                               | 70   | 95   | 70   | 100  | 90   | 100  | 78   |
| 45B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 46A     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       | 0                               | 85   | 72   | 72   | 95   | 92   | 100  | 82   |
| 46B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 47A     | CHLORIMURON + METRIB | 75.00 DF | .375 LB/AC  | PRE       | 0                               | 50   | 100  | 80   | 95   | 92   | 95   | 88   |
| 47B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 48A     | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       | 0                               | 88   | 100  | 72   | 90   | 88   | 100  | 85   |
| 48B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 48C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 49A     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       | 0                               | 85   | 95   | 78   | 95   | 82   | 100  | 75   |
| 49B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 49C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 50A     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       | 0                               | 90   | 95   | 80   | 92   | 95   | 100  | 95   |
| 50B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 50C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 51A     | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       | 0                               | 90   | 95   | 90   | 90   | 92   | 100  | 100  |
| 51B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 52A     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       | 0                               | 92   | 100  | 90   | 90   | 90   | 100  | 95   |
| 52B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 53A     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       | 0                               | 70   | 100  | 80   | 100  | 72   | 95   | 82   |
| 53B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 54A     | DPX 8259             | 60.00 DF | .525 LB/AC  | PRE       | 0                               | 60   | 92   | 98   | 92   | 82   | 100  | 78   |
| 54B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 55A     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       | 0                               | 70   | 100  | 80   | 92   | 68   | 100  | 88   |
| 55B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                 |      |      |      |      |      |      |      |



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7035 FULL SEASON NO-TILL SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                            | GIFT | ILMG | BLNS | PRSI | PESW | HHCL | MRTL |
| 56A     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       | 0                               | 92   | 95   | 82   | 95   | 68   | 100  | 88   |
| 56B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 56C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 57A     | DPX 8259             | 60.00 DF | .525 LB/AC  | PRE       | 0                               | 88   | 95   | 92   | 100  | 78   | 100  | 80   |
| 57B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 57C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 58A     | DPX 8259             | 60.00 DF | 1.000 LB/AC | PRE       | 0                               | 85   | 95   | 90   | 92   | 85   | 100  | 95   |
| 58B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 58C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 59A     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       | 0                               | 82   | 92   | 88   | 95   | 92   | 95   | 95   |
| 59B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 60A     | DPX 8259             | 60.00 DF | .525 LB/AC  | PRE       | 0                               | 88   | 95   | 78   | 92   | 90   | 95   | 95   |
| 60B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 61A     | CINMETHYLIN          | 7.00 EC  | 1.000 LB/AC | PRE       | 0                               | 68   | 100  | 95   | 88   | 78   | 95   | 82   |
| 61B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 61C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 61D     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |
| 61E     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 62A     | ORYZALIN             | 85.00 DF | .500 LB/AC  | PRE       | 0                               | 88   | 92   | 95   | 98   | 92   | 90   | 95   |
| 62B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 62C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 63A     | ORYZALIN             | 85.00 DF | .500 LB/AC  | PRE       | 0                               | 92   | 92   | 85   | 95   | 98   | 100  | 95   |
| 63B     | CHLORIMURON + METRIB | 75.00 DF | .380 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 63C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 64A     | ORYZALIN             | 85.00 DF | .500 LB/AC  | PRE       | 0                               | 90   | 100  | 95   | 95   | 88   | 95   | 95   |
| 64B     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 64C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 65A     | ORYZALIN             | 85.00 DF | .500 LB/AC  | PRE       | 0                               | 90   | 100  | 90   | 95   | 92   | 100  | 92   |
| 65B     | CHLORIM + LINURON    | 60.00 DF | .520 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 65C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7035 FULL SEASON NO-TILL SOYBEANS

| TRT NO. | HERBICIDE TREATMENT | FORMULA | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|---------------------|---------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                     |         |             |           | CRIN                            | GIFT | ILMG | BLNS | PRSI | PESW | HHCL | MRTL |
| 66A     | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 0                               | 90   | 95   | 98   | 92   | 95   | 88   | 82   |
| 66B     | GLYPHOSATE          | 4.00 E  | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 66C     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 67A     | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 0                               | 90   | 88   | 100  | 95   | 92   | 75   | 88   |
| 67B     | GLYPHOSATE          | 4.00 E  | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 67C     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 68A     | IMAZETHAPYR         | 2.00 AS | .078 LB/AC  | PRE       | 0                               | 98   | 95   | 100  | 95   | 98   | 85   | 82   |
| 68B     | GLYPHOSATE          | 4.00 E  | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 68C     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 69A     | IMAZETHAPYR         | 2.00 AS | .078 LB/AC  | PRE       | 0                               | 95   | 98   | 100  | 95   | 92   | 88   | 88   |
| 69B     | GLYPHOSATE          | 4.00 E  | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 69C     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 70A     | IMAZETHAPYR         | 2.00 AS | .094 LB/AC  | PRE       | 0                               | 92   | 95   | 100  | 95   | 88   | 88   | 82   |
| 70B     | GLYPHOSATE          | 4.00 E  | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 70C     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 71A     | IMAZETHAPYR         | 2.00 AS | .094 LB/AC  | PRE       | 0                               | 88   | 98   | 100  | 95   | 92   | 90   | 88   |
| 71B     | GLYPHOSATE          | 4.00 E  | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 71C     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 72A     | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 0                               | 90   | 98   | 100  | 100  | 98   | 85   | 85   |
| 72B     | PENDIMETHALIN       | 4.00 E  | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 72C     | GLYPHOSATE          | 4.00 E  | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 72D     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 73A     | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 0                               | 90   | 92   | 100  | 92   | 95   | 90   | 85   |
| 73B     | PENDIMETHALIN       | 4.00 E  | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 73C     | GLYPHOSATE          | 4.00 E  | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 73D     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 74A     | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 0                               | 95   | 100  | 95   | 95   | 95   | 90   | 88   |
| 74B     | ALACHLOR            | 4.00 MT | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 74C     | GLYPHOSATE          | 4.00 E  | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 74D     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |
| 75A     | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 0                               | 95   | 95   | 100  | 95   | 90   | 82   | 82   |
| 75B     | ALACHLOR            | 4.00 MT | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 75C     | GLYPHOSATE          | 4.00 E  | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 75D     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |

LSD (05) : 0 11 11 11 7 15 13 13

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7037 FULL SEASON REDUCED TILLAGE SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|------|
|         |                      |          |             |           | GRAS                            | BRLE | CRIN | GIFT | ILMG | PRSI | RRPW | PESW | HHCL |
| 1A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 98                              | 88   | 0    | 98   | 90   | 98   | 100  | 100  | 92   |
| 1B      | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 1C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 1D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 2A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 95                              | 78   | 0    | 95   | 80   | 88   | 100  | 100  | 98   |
| 2B      | METRIBUZIN 1         | 4.00 F   | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 2C      | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |
| 3A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 98                              | 80   | 0    | 98   | 88   | 85   | 100  | 100  | 95   |
| 3B      | LINURON              | 4.00 L   | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 3C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 3D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 3E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |
| 3F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |
| 4A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100                             | 82   | 0    | 100  | 92   | 85   | 100  | 100  | 100  |
| 4B      | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |
| 4C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 4D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 4E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |
| 4F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |
| 5A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100                             | 88   | 0    | 100  | 92   | 90   | 100  | 100  | 98   |
| 5B      | METRIBUZIN 2         | 75.00 DF | .280 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 5C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 5D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 5E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |
| 5F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |
| 6A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 98                              | 92   | 0    | 98   | 92   | 100  | 100  | 100  | 100  |
| 6B      | METRIBUZIN 2         | 75.00 DF | .375 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 6C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 6D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 6E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |
| 6F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |
| 7A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 95                              | 92   | 0    | 95   | 98   | 92   | 100  | 100  | 95   |
| 7B      | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 7C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 7D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7037 FULL SEASON REDUCED TILLAGE SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|------|
|         |                      |          |             |           | GRAS                            | BRLE | CRIN | GIFT | ILMG | PRSI | RRPW | PESW | BHCL |
| 8A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 95                              | 85   | 0    | 95   | 88   | 95   | 100  | 100  | 98   |
| 8B      | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 8C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 8D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 9A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 92                              | 92   | 0    | 92   | 98   | 95   | 100  | 100  | 98   |
| 9B      | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 9C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 9D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 9E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |
| 9F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |
| 10A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 80   | 0    | 90   | 95   | 80   | 100  | 100  | 100  |
| 10B     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 10C     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 10D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 10E     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |
| 10F     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |
| 11A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 92                              | 88   | 0    | 92   | 88   | 90   | 100  | 98   | 95   |
| 11B     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 11C     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 11D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 12A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 90                              | 90   | 0    | 90   | 95   | 92   | 100  | 100  | 100  |
| 12B     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 12C     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 12D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 13A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 98                              | 88   | 0    | 98   | 98   | 88   | 100  | 100  | 100  |
| 13B     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 13C     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 13D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 13E     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |
| 13F     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |
| 14A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 98                              | 82   | 0    | 98   | 98   | 92   | 100  | 100  | 88   |
| 14B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 14C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 14D     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                 |      |      |      |      |      |      |      |      |
| 14E     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7037 FULL SEASON REDUCED TILLAGE SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|------|
|         |                      |          |             |           | GRAS                            | BRLE | CRIN | GIFT | ILMG | PRSI | RRPW | PESW | HHCL |
| 15A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 98                              | 88   | 0    | 98   | 92   | 88   | 100  | 100  | 98   |
| 15B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |
| 15C     | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |
| 16A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 95                              | 85   | 0    | 95   | 88   | 92   | 100  | 100  | 98   |
| 16B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |
| 16C     | METRIBUZIN 1         | 4.00 F   | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 17A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 95                              | 88   | 0    | 95   | 90   | 92   | 100  | 100  | 100  |
| 17B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |
| 17C     | CHLORIMURON + METRIB | 75.00 DF | .380 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 18A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 95                              | 92   | 0    | 95   | 98   | 95   | 100  | 100  | 100  |
| 18B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |
| 18C     | CHLORIMURON + METRIB | 75.00 DF | .560 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 19A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 95                              | 90   | 0    | 95   | 95   | 98   | 100  | 100  | 98   |
| 19B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |
| 19C     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 20A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 92                              | 90   | 0    | 92   | 95   | 95   | 100  | 100  | 100  |
| 20B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |
| 20C     | DPX 8259             | 60.00 DF | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 21A     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       | 95                              | 80   | 0    | 95   | 98   | 98   | 100  | 95   | 88   |
| 21B     | METOLACHLOR          | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |
| 21C     | IMAZETHAPYR          | 2.00 AS  | .063 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 22A     | ALACHLOR + GLYPHOSAT | 4.00 E   | 3.000 LB/AC | PRE       | 95                              | 85   | 0    | 95   | 88   | 88   | 100  | 100  | 98   |
| 22B     | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |
| 23A     | ALACHLOR + GLYPHOSAT | 4.00 E   | 3.000 LB/AC | PRE       | 95                              | 88   | 0    | 95   | 88   | 98   | 100  | 100  | 98   |
| 23B     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 24A     | ALACHLOR + GLYPHOSAT | 4.00 E   | 3.000 LB/AC | PRE       | 98                              | 90   | 0    | 98   | 92   | 95   | 100  | 100  | 98   |
| 24B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 25A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 75                              | 75   | 0    | 75   | 82   | 85   | 100  | 100  | 98   |
| 25B     | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |
| 25C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7037 FULL SEASON REDUCED TILLAGE SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|------|
|         |                      |          |             |           | GRAS                            | BRLE | CRIN | GIFT | ILMG | PRSI | RRPW | PESW | HHCL |
| 26A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 88                              | 88   | 0    | 88   | 100  | 92   | 100  | 90   | 92   |
| 26B     | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |      |
| 26C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 26D     | 2,4-DB               | 2.00 E   | .030 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |      |
| 27A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 90                              | 88   | 0    | 90   | 88   | 95   | 100  | 100  | 100  |
| 27B     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 27C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 28A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 92                              | 88   | 0    | 92   | 88   | 100  | 100  | 100  | 100  |
| 28B     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 28C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 28D     | 2,4-DB               | 2.00 E   | .030 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |      |
| 29A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 88                              | 90   | 0    | 88   | 95   | 90   | 100  | 100  | 98   |
| 29B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 29C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 30A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 85                              | 90   | 0    | 85   | 95   | 92   | 100  | 100  | 98   |
| 30B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 30C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 30D     | 2,4-DB               | 2.00 E   | .030 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |      |
| 31A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 92                              | 92   | 0    | 92   | 95   | 95   | 100  | 100  | 100  |
| 31B     | DPX 8259             | 60.00 DF | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 31C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 32A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 85                              | 92   | 0    | 85   | 95   | 95   | 100  | 100  | 100  |
| 32B     | DPX 8259             | 60.00 DF | .750 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 32C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 32D     | 2,4-DB               | 2.00 E   | .030 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |      |
| 33A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 88                              | 88   | 0    | 88   | 92   | 90   | 98   | 100  | 95   |
| 33B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 33C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |
| 34A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 98                              | 92   | 0    | 98   | 95   | 95   | 100  | 98   | 98   |
| 34B     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |      |
| 34C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                 |      |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7037 FULL SEASON REDUCED TILLAGE SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|----------------------------------|------|------|------|------|------|------|------|------|
|         |                      |          |             |           | GRAS                             | BRLE | CRIN | GIFT | ILMG | PRSI | RRPW | PESW | HHCL |
| 35A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 98                               | 88   | 0    | 98   | 90   | 95   | 100  | 100  | 95   |
| 35B     | LINURON              | 4.00 L   | .750 LB/AC  | PRE       |                                  |      |      |      |      |      |      |      |      |
| 35C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |      |      |
| 36A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 95                               | 72   | 0    | 95   | 95   | 72   | 100  | 100  | 98   |
| 36B     | 2,4-DB               | 2.00 E   | .030 LB/AC  | PRE       |                                  |      |      |      |      |      |      |      |      |
| 36C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |      |      |
| 37A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 95                               | 95   | 0    | 95   | 95   | 98   | 100  | 100  | 98   |
| 37B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       |                                  |      |      |      |      |      |      |      |      |
| 37C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |      |      |
| 38A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 98                               | 88   | 0    | 98   | 95   | 92   | 100  | 100  | 100  |
| 38B     | DPX 8259             | 60.00 DF | .750 LB/AC  | PRE       |                                  |      |      |      |      |      |      |      |      |
| 38C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |      |      |
| 39A     | HOE 39866            | 1.67 AS  | .500 LB/AC  | PRE       | 85                               | 82   | 0    | 92   | 92   | 90   | 100  | 98   | 92   |
| 39B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                  |      |      |      |      |      |      |      |      |
| 39C     | FENOXAPROP           | 1.00 EC  | 1.000 LB/AC | MP        |                                  |      |      |      |      |      |      |      |      |
| 39D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |      |      |      |
| 40A     | HOE 39866            | 1.67 AS  | .750 LB/AC  | PRE       | 90                               | 85   | 0    | 90   | 92   | 92   | 100  | 98   | 95   |
| 40B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                  |      |      |      |      |      |      |      |      |
| 40C     | FENOXAPROP           | 1.00 EC  | .100 LB/AC  | MP        |                                  |      |      |      |      |      |      |      |      |
| 40D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |      |      |      |
| 41A     | HOE 39866            | 1.67 AS  | .750 LB/AC  | PRE       | 92                               | 90   | 0    | 92   | 92   | 98   | 100  | 100  | 95   |
| 41B     | IMAZETHAPYR          | 2.00 AS  | .094 LB/AC  | PRE       |                                  |      |      |      |      |      |      |      |      |
| 41C     | FENOXAPROP           | 1.00 EC  | .100 LB/AC  | MP        |                                  |      |      |      |      |      |      |      |      |
| 41D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |      |      |      |
| 42A     | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       | 85                               | 85   | 0    | 85   | 98   | 92   | 100  | 100  | 98   |
| 42B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                  |      |      |      |      |      |      |      |      |
| 43A     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       | 88                               | 95   | 0    | 88   | 98   | 98   | 100  | 100  | 100  |
| 43B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                  |      |      |      |      |      |      |      |      |
| 44A     | CHLORIMURON + METRIB | 75.00 DF | .375 LB/AC  | PRE       | 92                               | 90   | 0    | 92   | 90   | 95   | 100  | 100  | 92   |
| 44B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                  |      |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7037 FULL SEASON REDUCED TILLAGE SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | 4 WEEKS AFTER APPLIED |      |      |      |      |      |      |      |      |  |
|---------|----------------------|----------|-------------|-----------|-----------------------|------|------|------|------|------|------|------|------|--|
|         |                      |          |             |           | GRAS                  | BRLE | CRIN | GIFT | ILMG | PRSI | RRPW | PESW | HHCL |  |
| 45A     | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       | 82                    | 82   | 0    | 82   | 95   | 82   | 100  | 100  | 95   |  |
| 45B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                       |      |      |      |      |      |      |      |      |  |
| 45C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                       |      |      |      |      |      |      |      |      |  |
| 46A     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       | 90                    | 92   | 0    | 90   | 98   | 95   | 100  | 100  | 98   |  |
| 46B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                       |      |      |      |      |      |      |      |      |  |
| 46C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                       |      |      |      |      |      |      |      |      |  |
| 47A     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       | 88                    | 92   | 0    | 88   | 95   | 95   | 100  | 100  | 100  |  |
| 47B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                       |      |      |      |      |      |      |      |      |  |
| 47C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                       |      |      |      |      |      |      |      |      |  |
| 48A     | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       | 72                    | 75   | 0    | 72   | 88   | 82   | 95   | 100  | 95   |  |
| 48B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                       |      |      |      |      |      |      |      |      |  |
| 49A     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       | 85                    | 95   | 0    | 85   | 98   | 98   | 100  | 100  | 98   |  |
| 49B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                       |      |      |      |      |      |      |      |      |  |
| 50A     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       | 92                    | 90   | 0    | 92   | 95   | 92   | 100  | 100  | 98   |  |
| 50B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                       |      |      |      |      |      |      |      |      |  |
| 51A     | DPX 8259             | 60.00 DF | .525 LB/AC  | PRE       | 70                    | 88   | 0    | 70   | 88   | 98   | 100  | 100  | 100  |  |
| 51B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                       |      |      |      |      |      |      |      |      |  |
| 52A     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       | 82                    | 90   | 0    | 82   | 92   | 92   | 100  | 100  | 100  |  |
| 52B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                       |      |      |      |      |      |      |      |      |  |
| 53A     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       | 72                    | 82   | 0    | 72   | 92   | 88   | 100  | 100  | 98   |  |
| 53B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                       |      |      |      |      |      |      |      |      |  |
| 53C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                       |      |      |      |      |      |      |      |      |  |
| 54A     | DPX 8259             | 60.00 DF | .525 LB/AC  | PRE       | 90                    | 80   | 0    | 90   | 95   | 82   | 100  | 100  | 98   |  |
| 54B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                       |      |      |      |      |      |      |      |      |  |
| 54C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                       |      |      |      |      |      |      |      |      |  |
| 55A     | DPX 8259             | 60.00 DF | 1.000 LB/AC | PRE       | 80                    | 88   | 0    | 80   | 98   | 88   | 100  | 100  | 100  |  |
| 55B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                       |      |      |      |      |      |      |      |      |  |
| 55C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                       |      |      |      |      |      |      |      |      |  |
| 56A     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       | 75                    | 82   | 0    | 75   | 92   | 88   | 100  | 100  | 95   |  |
| 56B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                       |      |      |      |      |      |      |      |      |  |



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7037 FULL SEASON REDUCED TILLAGE SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|----------------------------------|------|------|------|------|------|------|------|------|
|         |                      |          |             |           | GRAS                             | BRLE | CRIN | GIFT | ILMG | PRSI | RRPW | PESW | HBCL |
| 57A     | DPK 8259             | 60.00 DF | .525 LB/AC  | PRE       | 90                               | 92   | 0    | 90   | 95   | 95   | 100  | 100  | 100  |
| 57B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |      |      |
| 58A     | CINMETHYLIN          | 7.00 EC  | 1.000 LB/AC | PRE       | 95                               | 68   | 0    | 95   | 100  | 72   | 100  | 95   | 92   |
| 58B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |      |      |
| 58C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |      |      |
| 58D     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                  |      |      |      |      |      |      |      |      |
| 58E     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |      |      |
| 59A     | ORYZALIN             | 85.00 DF | .500 LB/AC  | PRE       | 98                               | 88   | 0    | 98   | 95   | 92   | 100  | 100  | 98   |
| 59B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                  |      |      |      |      |      |      |      |      |
| 59C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |      |      |
| 60A     | ORYZALIN             | 85.00 DF | .500 LB/AC  | PRE       | 95                               | 88   | 0    | 95   | 90   | 90   | 100  | 100  | 100  |
| 60B     | CHLORIMURON + METRIB | 75.00 DF | .380 LB/AC  | PRE       |                                  |      |      |      |      |      |      |      |      |
| 60C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |      |      |
| 61A     | ORYZALIN             | 85.00 DF | .500 LB/AC  | PRE       | 90                               | 88   | 0    | 90   | 92   | 88   | 100  | 100  | 98   |
| 61B     | DPK 8259             | 60.00 DF | .600 LB/AC  | PRE       |                                  |      |      |      |      |      |      |      |      |
| 61C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |      |      |
| 62A     | ORYZALIN             | 85.00 DF | .500 LB/AC  | PRE       | 95                               | 80   | 0    | 95   | 92   | 85   | 100  | 100  | 95   |
| 62B     | CHLORIM + LINURON    | 60.00 DF | .520 LB/AC  | PRE       |                                  |      |      |      |      |      |      |      |      |
| 62C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |      |      |
| 63A     | IMAZETHAPYR          | 2.00 AS  | .063 LB/AC  | PRE       | 98                               | 88   | 0    | 98   | 92   | 92   | 100  | 100  | 92   |
| 63B     | GLYPHOSATE           | 4.00 E   | .750 LB/AC  | PRE       |                                  |      |      |      |      |      |      |      |      |
| 63C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |      |      |
| 64A     | IMAZETHAPYR          | 2.00 AS  | .063 LB/AC  | PRE       | 90                               | 90   | 0    | 90   | 92   | 95   | 100  | 100  | 98   |
| 64B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |      |      |
| 64C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |      |      |
| 65A     | IMAZETHAPYR          | 2.00 AS  | .078 LB/AC  | PRE       | 88                               | 90   | 0    | 88   | 90   | 98   | 100  | 100  | 98   |
| 65B     | GLYPHOSATE           | 4.00 E   | .750 LB/AC  | PRE       |                                  |      |      |      |      |      |      |      |      |
| 65C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |      |      |
| 66A     | IMAZETHAPYR          | 2.00 AS  | .078 LB/AC  | PRE       | 92                               | 90   | 0    | 92   | 95   | 98   | 100  | 100  | 92   |
| 66B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |      |      |
| 66C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7037 FULL SEASON REDUCED TILLAGE SOYBEANS

| TRT NO.  | HERBICIDE TREATMENT | FORMULA | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      |      |      |
|----------|---------------------|---------|-------------|-----------|----------------------------------|------|------|------|------|------|------|------|------|
|          |                     |         |             |           | GRAS                             | BRLE | CRIN | GIFT | ILMG | PRSI | RRPW | PESW | HHCL |
| 67A      | IMAZETHAPYR         | 2.00 AS | .094 LB/AC  | PRE       | 88                               | 82   | 0    | 88   | 98   | 88   | 100  | 100  | 92   |
| 67B      | GLYPHOSATE          | 4.00 E  | .750 LB/AC  | PRE       |                                  |      |      |      |      |      |      |      |      |
| 67C      | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |      |      |
| 68A      | IMAZETHAPYR         | 2.00 AS | .094 LB/AC  | PRE       | 95                               | 92   | 0    | 95   | 98   | 95   | 100  | 100  | 95   |
| 68B      | GLYPHOSATE          | 4.00 E  | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |      |      |
| 68C      | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |      |      |
| 69A      | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 95                               | 82   | 0    | 95   | 92   | 95   | 100  | 100  | 90   |
| 69B      | PENDIMETHALIN       | 4.00 E  | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |      |      |
| 69C      | GLYPHOSATE          | 4.00 E  | .750 LB/AC  | PRE       |                                  |      |      |      |      |      |      |      |      |
| 69D      | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |      |      |
| 70A      | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 90                               | 82   | 0    | 90   | 100  | 95   | 100  | 100  | 90   |
| 70B      | PENDIMETHALIN       | 4.00 E  | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |      |      |
| 70C      | GLYPHOSATE          | 4.00 E  | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |      |      |
| 70D      | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |      |      |
| 71A      | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 95                               | 90   | 0    | 95   | 95   | 98   | 100  | 100  | 92   |
| 71B      | ALACHLOR            | 4.00 MT | 2.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |      |      |
| 71C      | GLYPHOSATE          | 4.00 E  | .750 LB/AC  | PRE       |                                  |      |      |      |      |      |      |      |      |
| 71D      | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |      |      |
| 72A      | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 90                               | 85   | 0    | 90   | 90   | 88   | 100  | 100  | 98   |
| 72B      | ALACHLOR            | 4.00 MT | 2.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |      |      |
| 72C      | GLYPHOSATE          | 4.00 E  | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |      |      |
| 72D      | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |      |      |
| LSD(05): |                     |         |             |           | 11                               | 13   | 0    | 11   | 9    | 11   | NS   | NS   | 8    |

LOCATION: SPINDLETOP FARM

FERTILIZATION (LB/AC): 60 N, 60 P, 60 K

DATE PLANTED: MAY 14

VARIETY: WILLIAMS 82

SOIL TYPE: MAURY SILT LOAM

PH: 6.4 O.M.: 4.5%

DATE TREATED: PRE MAY 14

EP JUNE 17

MP JULY 9

TREATMENTS 63-72 ARE 15 GPA

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7037 REDUCED TILLAGE FULL SEASON SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|----------------------------------|------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                             | GIFT | ILMG | PRSI | RRPW | PESW | HHCL |
| 1A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 98   | 88   | 95   | 100  | 100  | 98   |
| 1B      | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 1C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 1D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 2A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 95   | 75   | 90   | 98   | 100  | 98   |
| 2B      | METRIBUZIN 1         | 4.00 F   | .500 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 2C      | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 3A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 98   | 85   | 95   | 90   | 100  | 95   |
| 3B      | LINURON              | 4.00 L   | .750 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 3C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 3D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 3E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 3F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 4A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 100  | 92   | 100  | 82   | 100  | 100  |
| 4B      | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 4C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 4D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 4E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 4F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 5A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 100  | 90   | 95   | 95   | 100  | 98   |
| 5B      | METRIBUZIN 2         | 75.00 DF | .280 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 5C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 5D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 5E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 5F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 6A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 98   | 92   | 100  | 100  | 100  | 100  |
| 6B      | METRIBUZIN 2         | 75.00 DF | .375 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 6C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 6D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 6E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 6F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 7A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 95   | 98   | 95   | 95   | 100  | 100  |
| 7B      | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 7C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 7D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7037 REDUCED TILLAGE FULL SEASON SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|----------------------------------|------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                             | GIFT | ILMG | PRSI | RRPW | PESW | HHCL |
| 8A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 95   | 88   | 98   | 98   | 100  | 98   |
| 8B      | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 8C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 8D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 9A      | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 92   | 98   | 100  | 95   | 100  | 98   |
| 9B      | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 9C      | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 9D      | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 9E      | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 9F      | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 10A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 90   | 95   | 92   | 85   | 100  | 100  |
| 10B     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 10C     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 10D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 10E     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 10F     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 11A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 92   | 85   | 98   | 92   | 98   | 95   |
| 11B     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 11C     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 11D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 12A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 90   | 92   | 98   | 95   | 100  | 100  |
| 12B     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 12C     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 12D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 13A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 98   | 98   | 98   | 85   | 100  | 100  |
| 13B     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 13C     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 13D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 13E     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 13F     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 14A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 0                                | 98   | 98   | 95   | 90   | 100  | 90   |
| 14B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 14C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 14D     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 14E     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7037 REDUCED TILLAGE FULL SEASON SOYBEANS

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA  | RATE        | APPL<br>METH | -----8 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |
|------------|------------------------|----------|-------------|--------------|---------------------------------|------|------|------|------|------|------|
|            |                        |          |             |              | CRIN                            | GIFT | ILMG | PRSI | RRPW | PESW | HHCL |
| 15A        | GLYPHOSATE             | 4.00 E   | 1.000 LB/AC | PRE          | 0                               | 98   | 92   | 98   | 85   | 100  | 100  |
| 15B        | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PRE          |                                 |      |      |      |      |      |      |
| 15C        | LINURON                | 4.00 L   | 1.000 LB/AC | PRE          |                                 |      |      |      |      |      |      |
| 16A        | GLYPHOSATE             | 4.00 E   | 1.000 LB/AC | PRE          | 0                               | 95   | 88   | 92   | 100  | 100  | 98   |
| 16B        | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PRE          |                                 |      |      |      |      |      |      |
| 16C        | METRIBUZIN 1           | 4.00 F   | .500 LB/AC  | PRE          |                                 |      |      |      |      |      |      |
| 17A        | GLYPHOSATE             | 4.00 E   | 1.000 LB/AC | PRE          | 0                               | 95   | 90   | 100  | 90   | 100  | 100  |
| 17B        | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PRE          |                                 |      |      |      |      |      |      |
| 17C        | CHLORIMURON + METRIB   | 75.00 DF | .380 LB/AC  | PRE          |                                 |      |      |      |      |      |      |
| 18A        | GLYPHOSATE             | 4.00 E   | 1.000 LB/AC | PRE          | 0                               | 95   | 98   | 98   | 95   | 100  | 100  |
| 18B        | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PRE          |                                 |      |      |      |      |      |      |
| 18C        | CHLORIMURON + METRIB   | 75.00 DF | .560 LB/AC  | PRE          |                                 |      |      |      |      |      |      |
| 19A        | GLYPHOSATE             | 4.00 E   | 1.000 LB/AC | PRE          | 0                               | 95   | 95   | 100  | 98   | 100  | 98   |
| 19B        | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PRE          |                                 |      |      |      |      |      |      |
| 19C        | DPX 8259               | 60.00 DF | .600 LB/AC  | PRE          |                                 |      |      |      |      |      |      |
| 20A        | GLYPHOSATE             | 4.00 E   | 1.000 LB/AC | PRE          | 0                               | 92   | 95   | 100  | 95   | 100  | 100  |
| 20B        | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PRE          |                                 |      |      |      |      |      |      |
| 20C        | DPX 8259               | 60.00 DF | .750 LB/AC  | PRE          |                                 |      |      |      |      |      |      |
| 21A        | GLYPHOSATE             | 4.00 E   | 1.000 LB/AC | PRE          | 0                               | 95   | 98   | 100  | 98   | 100  | 82   |
| 21B        | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PRE          |                                 |      |      |      |      |      |      |
| 21C        | IMAZETHAPYR            | 2.00 AS  | .063 LB/AC  | PRE          |                                 |      |      |      |      |      |      |
| 22A        | ALACHLOR + GLYPHOSAT   | 4.00 E   | 3.000 LB/AC | PRE          | 0                               | 95   | 88   | 95   | 92   | 100  | 98   |
| 22B        | LINURON                | 4.00 L   | 1.000 LB/AC | PRE          |                                 |      |      |      |      |      |      |
| 23A        | ALACHLOR + GLYPHOSAT   | 4.00 E   | 3.000 LB/AC | PRE          | 0                               | 95   | 88   | 98   | 98   | 100  | 100  |
| 23B        | METRIBUZIN             | 75.00 DF | .500 LB/AC  | PRE          |                                 |      |      |      |      |      |      |
| 24A        | ALACHLOR + GLYPHOSAT   | 4.00 E   | 3.000 LB/AC | PRE          | 0                               | 98   | 92   | 100  | 95   | 100  | 98   |
| 24B        | IMAZAQUIN              | 1.50 AS  | .125 LB/AC  | PRE          |                                 |      |      |      |      |      |      |
| 25A        | PARAQUAT               | 1.50 S   | .380 LB/AC  | PRE          | 0                               | 75   | 80   | 92   | 90   | 100  | 98   |
| 25B        | LINURON                | 4.00 L   | 1.000 LB/AC | PRE          |                                 |      |      |      |      |      |      |
| 25C        | X-77 (SURFACTANT)      | .50 WA   | .250 %      | PRE          |                                 |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7037 REDUCED TILLAGE FULL SEASON SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|----------------------------------|------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                             | GIFT | ILMG | PRSI | RRPW | PESW | HHCL |
| 26A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 0                                | 88   | 100  | 95   | 98   | 90   | 92   |
| 26B     | LINURON              | 4.00 L   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 26C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 26D     | 2,4-DB               | 2.00 E   | .030 LB/AC  | MP        |                                  |      |      |      |      |      |      |
| 27A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 0                                | 90   | 82   | 100  | 92   | 100  | 100  |
| 27B     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 27C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 28A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 0                                | 92   | 88   | 100  | 100  | 100  | 100  |
| 28B     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 28C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 28D     | 2,4-DB               | 2.00 E   | .030 LB/AC  | MP        |                                  |      |      |      |      |      |      |
| 29A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 0                                | 85   | 95   | 98   | 90   | 100  | 98   |
| 29B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 29C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 30A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 0                                | 82   | 92   | 98   | 92   | 100  | 98   |
| 30B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 30C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 30D     | 2,4-DB               | 2.00 E   | .030 LB/AC  | MP        |                                  |      |      |      |      |      |      |
| 31A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 0                                | 92   | 98   | 100  | 95   | 100  | 100  |
| 31B     | DPX 8259             | 60.00 DF | .750 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 31C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 32A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 0                                | 80   | 95   | 100  | 95   | 100  | 100  |
| 32B     | DPX 8259             | 60.00 DF | .750 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 32C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 32D     | 2,4-DB               | 2.00 E   | .030 LB/AC  | MP        |                                  |      |      |      |      |      |      |
| 33A     | PARAQUAT             | 1.50 S   | .380 LB/AC  | PRE       | 0                                | 88   | 92   | 95   | 92   | 98   | 95   |
| 33B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 33C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 34A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 0                                | 98   | 95   | 98   | 98   | 98   | 98   |
| 34B     | METRIBUZIN           | 75.00 DF | .500 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 34C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7037 REDUCED TILLAGE FULL SEASON SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|----------------------------------|------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                             | GIFT | ILMG | PRSI | RRPW | PESW | HHCL |
| 35A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 0                                | 98   | 88   | 98   | 95   | 100  | 95   |
| 35B     | LINURON              | 4.00 L   | .750 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 35C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 36A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 0                                | 95   | 92   | 92   | 72   | 100  | 98   |
| 36B     | 2,4-DB               | 2.00 E   | .030 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 36C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 37A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 0                                | 95   | 95   | 98   | 100  | 100  | 98   |
| 37B     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 37C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 38A     | PARA + META + LIN    | 2.75 EC  | 2.100 LB/AC | PRE       | 0                                | 98   | 95   | 100  | 90   | 100  | 100  |
| 38B     | DPX 8259             | 60.00 DF | .750 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 38C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 39A     | HOE 39866            | 1.67 AS  | .500 LB/AC  | PRE       | 0                                | 92   | 92   | 98   | 90   | 100  | 90   |
| 39B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 39C     | FENOXAPROP           | 1.00 EC  | 1.000 LB/AC | MP        |                                  |      |      |      |      |      |      |
| 39D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |      |
| 40A     | HOE 39866            | 1.67 AS  | .750 LB/AC  | PRE       | 0                                | 90   | 92   | 100  | 90   | 100  | 90   |
| 40B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 40C     | FENOXAPROP           | 1.00 EC  | .100 LB/AC  | MP        |                                  |      |      |      |      |      |      |
| 40D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |      |
| 41A     | HOE 39866            | 1.67 AS  | .750 LB/AC  | PRE       | 0                                | 92   | 92   | 98   | 98   | 100  | 98   |
| 41B     | IMAZETHAPYR          | 2.00 AS  | .094 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 41C     | FENOXAPROP           | 1.00 EC  | .100 LB/AC  | MP        |                                  |      |      |      |      |      |      |
| 41D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                                  |      |      |      |      |      |      |
| 42A     | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       | 0                                | 85   | 98   | 100  | 88   | 100  | 98   |
| 42B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                  |      |      |      |      |      |      |
| 43A     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       | 0                                | 88   | 98   | 100  | 95   | 100  | 100  |
| 43B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                  |      |      |      |      |      |      |
| 44A     | CHLORIMURON + METRIB | 75.00 DF | .375 LB/AC  | PRE       | 0                                | 92   | 88   | 95   | 95   | 100  | 98   |
| 44B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                  |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7037 REDUCED TILLAGE FULL SEASON SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|----------------------------------|------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                             | GIFT | ILMG | PRSI | RRPW | PESW | HHCL |
| 45A     | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       | 0                                | 82   | 92   | 90   | 90   | 100  | 95   |
| 45B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 45C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 46A     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       | 0                                | 90   | 98   | 100  | 92   | 100  | 98   |
| 46B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 46C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 47A     | CHLORIMURON + METRIB | 75.00 DF | .500 LB/AC  | PRE       | 0                                | 88   | 92   | 100  | 95   | 100  | 100  |
| 47B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 47C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 48A     | CHLORIMURON + METRIB | 75.00 DF | .188 LB/AC  | PRE       | 0                                | 68   | 85   | 92   | 82   | 100  | 95   |
| 48B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 49A     | CHLORIMURON + METRIB | 75.00 DF | .280 LB/AC  | PRE       | 0                                | 85   | 98   | 100  | 98   | 100  | 98   |
| 49B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 50A     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       | 0                                | 92   | 95   | 100  | 92   | 100  | 98   |
| 50B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                  |      |      |      |      |      |      |
| 51A     | DPX 8259             | 60.00 DF | .525 LB/AC  | PRE       | 0                                | 65   | 85   | 100  | 98   | 100  | 100  |
| 51B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                  |      |      |      |      |      |      |
| 52A     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       | 0                                | 82   | 92   | 100  | 92   | 100  | 100  |
| 52B     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | PRE       |                                  |      |      |      |      |      |      |
| 53A     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       | 0                                | 68   | 90   | 100  | 85   | 100  | 98   |
| 53B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 53C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 54A     | DPX 8259             | 60.00 DF | .525 LB/AC  | PRE       | 0                                | 90   | 95   | 100  | 78   | 100  | 98   |
| 54B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 54C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 55A     | DPX 8259             | 60.00 DF | 1.000 LB/AC | PRE       | 0                                | 80   | 98   | 92   | 95   | 100  | 100  |
| 55B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 55C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 56A     | DPX 8259             | 60.00 DF | .450 LB/AC  | PRE       | 0                                | 72   | 92   | 95   | 90   | 100  | 95   |
| 56B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7037 REDUCED TILLAGE FULL SEASON SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|----------------------------------|------|------|------|------|------|------|
|         |                      |          |             |           | CRIN                             | GIFT | ILMG | PRSI | RRPW | PESW | HHCL |
| 57A     | DPX 8259             | 60.00 DF | .525 LB/AC  | PRE       | 0                                | 90   | 95   | 100  | 95   | 100  | 100  |
| 57B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 58A     | CINMETHYLIN          | 7.00 EC  | 1.000 LB/AC | PRE       | 0                                | 95   | 100  | 88   | 80   | 98   | 90   |
| 58B     | PARAQUAT             | 1.50 S   | .250 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 58C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 58D     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                                  |      |      |      |      |      |      |
| 58E     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                                  |      |      |      |      |      |      |
| 59A     | ORYZALIN             | 85.00 DF | .500 LB/AC  | PRE       | 0                                | 98   | 95   | 100  | 90   | 100  | 98   |
| 59B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 59C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 60A     | ORYZALIN             | 85.00 DF | .500 LB/AC  | PRE       | 0                                | 95   | 88   | 100  | 88   | 100  | 100  |
| 60B     | CHLORIMURON + METRIB | 75.00 DF | .380 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 60C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 61A     | ORYZALIN             | 85.00 DF | .500 LB/AC  | PRE       | 0                                | 90   | 92   | 90   | 98   | 100  | 100  |
| 61B     | DPX 8259             | 60.00 DF | .600 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 61C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 62A     | ORYZALIN             | 85.00 DF | .500 LB/AC  | PRE       | 0                                | 95   | 92   | 100  | 80   | 100  | 95   |
| 62B     | CHLORIM + LINURON    | 60.00 DF | .520 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 62C     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 63A     | IMAZETHAPYR          | 2.00 AS  | .063 LB/AC  | PRE       | 0                                | 98   | 92   | 98   | 92   | 100  | 95   |
| 63B     | GLYPHOSATE           | 4.00 E   | .750 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 63C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 64A     | IMAZETHAPYR          | 2.00 AS  | .063 LB/AC  | PRE       | 0                                | 90   | 92   | 100  | 95   | 100  | 98   |
| 64B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 64C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 65A     | IMAZETHAPYR          | 2.00 AS  | .078 LB/AC  | PRE       | 0                                | 88   | 90   | 100  | 98   | 100  | 98   |
| 65B     | GLYPHOSATE           | 4.00 E   | .750 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 65C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 66A     | IMAZETHAPYR          | 2.00 AS  | .078 LB/AC  | PRE       | 0                                | 92   | 95   | 98   | 100  | 100  | 92   |
| 66B     | GLYPHOSATE           | 4.00 E   | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 66C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | PRE       |                                  |      |      |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7037 REDUCED TILLAGE FULL SEASON SOYBEANS

| TRT NO. | HERBICIDE TREATMENT | FORMULA | RATE        | APPL METH | -----8 WEEKS AFTER APPLIED ----- |      |      |      |      |      |      |
|---------|---------------------|---------|-------------|-----------|----------------------------------|------|------|------|------|------|------|
|         |                     |         |             |           | CRIN                             | GIFT | ILMG | PRSI | RRPW | PESW | HCCL |
| 67A     | IMAZETHAPYR         | 2.00 AS | .094 LB/AC  | PRE       | 0                                | 88   | 98   | 95   | 85   | 100  | 98   |
| 67B     | GLYPHOSATE          | 4.00 E  | .750 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 67C     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 68A     | IMAZETHAPYR         | 2.00 AS | .094 LB/AC  | PRE       | 0                                | 95   | 95   | 98   | 95   | 100  | 98   |
| 68B     | GLYPHOSATE          | 4.00 E  | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 68C     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 69A     | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 0                                | 95   | 90   | 95   | 98   | 100  | 92   |
| 69B     | PENDIMETHALIN       | 4.00 E  | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 69C     | GLYPHOSATE          | 4.00 E  | .750 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 69D     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 70A     | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 0                                | 90   | 92   | 100  | 95   | 100  | 90   |
| 70B     | PENDIMETHALIN       | 4.00 E  | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 70C     | GLYPHOSATE          | 4.00 E  | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 70D     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 71A     | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 0                                | 95   | 95   | 95   | 95   | 100  | 98   |
| 71B     | ALACHLOR            | 4.00 MT | 2.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 71C     | GLYPHOSATE          | 4.00 E  | .750 LB/AC  | PRE       |                                  |      |      |      |      |      |      |
| 71D     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |
| 72A     | IMAZETHAPYR         | 2.00 AS | .063 LB/AC  | PRE       | 0                                | 90   | 88   | 98   | 90   | 100  | 98   |
| 72B     | ALACHLOR            | 4.00 MT | 2.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 72C     | GLYPHOSATE          | 4.00 E  | 1.000 LB/AC | PRE       |                                  |      |      |      |      |      |      |
| 72D     | X-77 (SURFACTANT)   | .50 WA  | .250 %      | PRE       |                                  |      |      |      |      |      |      |

LSD(05): 0 13 11 9 13 NS 7

LOCATION: SPINDLETOP FARM

SOIL TYPE: MAURY SILT LOAM

FERTILIZATION (LB/AC): 60 N, 60 P, 60 K

PH: 6.4 O.M.: 4.5%

DATE PLANTED: MAY 14

DATE TREATED: PRE MAY 14

VARIETY: WILLIAMS 82

EP JUNE 17

MP JULY 9

TREATMENTS 63-72 ARE 15 GPA

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7120 WEED CONTROL IN GRAIN SORGHUM

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                     |          |             |           | GRAS                            | BRLE | CRIN | GIFT | JIWE | BLNS | RRPW | PRSI |
| 1       | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 97                              | 80   | 0    | 97   | 83   | 97   | 97   | 93   |
| 2A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 97                              | 93   | 0    | 97   | 93   | 100  | 100  | 100  |
| 2B      | ATRAZINE            | 4.00 L   | 1.000 LB/AC | EP        |                                 |      |      |      |      |      |      |      |
| 2C      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 3A      | ALACHLOR            | 4.00 MT  | 1.000 LB/AC | PRE       | 97                              | 73   | 0    | 97   | 70   | 97   | 97   | 93   |
| 3B      | CINMETHYLIN         | 7.00 EC  | 1.000 LB/AC | EP        |                                 |      |      |      |      |      |      |      |
| 3C      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 4A      | ALACHLOR            | 4.00 MT  | 1.000 LB/AC | PRE       | 100                             | 87   | 0    | 100  | 83   | 97   | 93   | 97   |
| 4B      | CINMETHYLIN         | 7.00 EC  | 1.250 LB/AC | EP        |                                 |      |      |      |      |      |      |      |
| 4C      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 5A      | ALACHLOR            | 4.00 MT  | 1.000 LB/AC | PRE       | 100                             | 90   | 10   | 100  | 100  | 100  | 100  | 100  |
| 5B      | CINMETHYLIN         | 7.00 EC  | 1.000 LB/AC | EP        |                                 |      |      |      |      |      |      |      |
| 5C      | ATRAZINE            | 4.00 L   | 1.000 LB/AC | EP        |                                 |      |      |      |      |      |      |      |
| 5D      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 6A      | ALACHLOR            | 4.00 MT  | 1.000 LB/AC | PRE       | 100                             | 100  | 0    | 100  | 100  | 100  | 100  | 100  |
| 6B      | CINMETHYLIN         | 7.00 EC  | 1.250 LB/AC | EP        |                                 |      |      |      |      |      |      |      |
| 6C      | ATRAZINE            | 4.00 L   | 1.000 LB/AC | EP        |                                 |      |      |      |      |      |      |      |
| 6D      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                                 |      |      |      |      |      |      |      |
| 7A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 93                              | 90   | 0    | 93   | 93   | 100  | 97   | 93   |
| 7B      | BROMOXYNIL 2        | 2.00 E   | .380 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 8A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 93                              | 90   | 0    | 93   | 100  | 100  | 100  | 97   |
| 8B      | BROMOXYNIL          | 1.00 E   | .188 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 8C      | WITH ATRAZINE       | 2.00 L   | .380 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 9A      | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 97                              | 93   | 0    | 97   | 100  | 100  | 100  | 93   |
| 9B      | BROMOXYNIL          | 1.00 E   | .250 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 9C      | WITH ATRAZINE       | 2.00 L   | .500 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 10A     | ALACHLOR            | 4.00 MT  | 2.500 LB/AC | PRE       | 97                              | 97   | 0    | 97   | 97   | 100  | 100  | 100  |
| 10B     | BROMOXYNIL          | 1.00 E   | .380 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 10C     | WITH ATRAZINE       | 2.00 L   | .750 LB/AC  | MP        |                                 |      |      |      |      |      |      |      |
| 11      | METOLACHLOR         | 8.00 E   | 2.000 LB/AC | PRE       | 97                              | 77   | 0    | 97   | 77   | 97   | 87   | 83   |
| 12      | RE 40885            | 80.00 WP | .500 LB/AC  | PRE       | 90                              | 80   | 0    | 90   | 97   | 90   | 80   | 97   |
| 13      | RE 40885            | 80.00 WP | .750 LB/AC  | PRE       | 90                              | 83   | 0    | 90   | 97   | 97   | 87   | 100  |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7120 WEED CONTROL IN GRAIN SORGHUM

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|---------------------------------|------|------|------|------|------|------|------|
|         |                     |          |             |           | GRAS                            | BRLE | CRIN | GIFT | JIWE | BLNS | RRPW | PRSI |
| 14      | RE 40885            | 80.00 WP | 1.000 LB/AC | PRE       | 87                              | 90   | 3    | 87   | 97   | 93   | 90   | 93   |
| 15A     | RE 40885            | 80.00 WP | .250 LB/AC  | PPI       | 90                              | 83   | 0    | 90   | 100  | 93   | 93   | 97   |
| 15B     | RE 40885            | 80.00 WP | .250 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 16A     | RE 40885            | 80.00 WP | .500 LB/AC  | PPI       | 90                              | 87   | 0    | 90   | 93   | 93   | 87   | 100  |
| 16B     | RE 40885            | 80.00 WP | .500 LB/AC  | PRE       |                                 |      |      |      |      |      |      |      |
| 17A     | RE 40885            | 80.00 WP | .500 LB/AC  | PRE       | 93                              | 90   | 3    | 93   | 97   | 100  | 100  | 100  |
| 17B     | ATRAZINE            | 4.00 L   | 1.500 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 18A     | RE 40885            | 80.00 WP | .500 LB/AC  | PRE       | 97                              | 90   | 0    | 97   | 90   | 97   | 93   | 97   |
| 18B     | METOLACHLOR         | 8.00 E   | 2.000 LB/AC | PRE       |                                 |      |      |      |      |      |      |      |
| 19      | CHECK (CULTIVATED)  | .00 CK   | .000        |           | 100                             | 100  | 0    | 100  | 100  | 100  | 100  | 100  |
|         |                     |          | LSD (05):   |           | 7                               | 14   | NS   | 7    | 12   | 6    | 9    | 8    |

LOCATION: PRINCETON  
 FERTILIZATION (LB/AC): 250 N, 60 P, 60 K  
 DATE PLANTED: JUNE 25  
 VARIETY:  
 SOIL TYPE: CRIDER SILT LOAM  
 PH: 6.5 O.M.: 2.0%  
 DATE TREATED: PPI JUNE 25  
 EP JULY 13  
 MP JULY 20

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7104 WEED CONTROL IN CONVENTIONAL CORN

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA  | RATE        | APPL<br>METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |
|------------|------------------------|----------|-------------|--------------|---------------------------------|------|------|------|------|------|------|------|
|            |                        |          |             |              | GRAS                            | BRLE | CRIN | GIFT | COLQ | YENS | RRPW | PRSI |
| 1A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 100                             | 97   | 0    | 100  | 100  | 93   | 100  | 97   |
| 1B         | PPG 1259               | 3.00 FL  | .100 LB/AC  | 5LF          |                                 |      |      |      |      |      |      |      |
| 1C         | CYANAZINE              | 80.00 WP | 1.000 LB/AC | 5LF          |                                 |      |      |      |      |      |      |      |
| 2A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 97                              | 90   | 10   | 97   | 90   | 90   | 97   | 93   |
| 2B         | PPG 1259               | 3.00 FL  | .100 LB/AC  | 5LF          |                                 |      |      |      |      |      |      |      |
| 2C         | 2,4-D AMINE            | 4.00 E   | .250 LB/AC  | 5LF          |                                 |      |      |      |      |      |      |      |
| 3A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 93                              | 93   | 0    | 93   | 97   | 90   | 93   | 90   |
| 3B         | PPG 4000               | 4.80 FL  | .600 LB/AC  | 5LF          |                                 |      |      |      |      |      |      |      |
| 4A         | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PRE          | 100                             | 90   | 7    | 100  | 97   | 90   | 100  | 90   |
| 4B         | PPG 1259               | 3.00 FL  | .150 LB/AC  | PRE          |                                 |      |      |      |      |      |      |      |
| 4C         | CYANAZINE              | 4.00 L   | 1.500 LB/AC | PRE          |                                 |      |      |      |      |      |      |      |
| 5A         | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PRE          | 97                              | 93   | 0    | 97   | 93   | 93   | 97   | 97   |
| 5B         | PPG 4000               | 4.80 FL  | .900 LB/AC  | PRE          |                                 |      |      |      |      |      |      |      |
| 6          | CHECK (CULTIVATED)     | .00 CK   | .000        |              | 100                             | 100  | 0    | 100  | 100  | 100  | 100  | 100  |
|            |                        |          |             | LSD(05):     | NS                              | NS   | 4    | NS   | 6    | NS   | NS   | 6    |

LOCATION: PRINCETON SOIL TYPE: CRIDER SILT LOAM  
 FERTILIZATION (LB/AC): 250 N, 60 P, 60 K PH: 6.5 O.M.: 2.0%  
 DATE PLANTED: MAY 19 DATE TREATED: PRE MAY 19  
 VARIETY: PIONEER 3320 5LF JUNE 18

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7102 SOYBEAN JOHNSONGRASS PRE & PPI

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | ---4 WEEKS AFTER APPL |      |      |      |
|---------|---------------------|----------|-------------|-----------|-----------------------|------|------|------|
|         |                     |          |             |           | GRAS                  | BRLE | CRIN | JOGR |
| 1A      | PENDIMETHALIN       | 4.00 E   | .750 LB/AC  | PPI       | 63                    | 87   | 0    | 63   |
| 1B      | IMAZETHAPYR         | 2.00 AS  | .063 LB/AC  | 15J       |                       |      |      |      |
| 1C      | X-77 (SURFACTANT)   | .50 WA   | .250 %      | 15J       |                       |      |      |      |
| 2A      | PENDIMETHALIN       | 4.00 E   | .750 LB/AC  | PPI       | 63                    | 87   | 0    | 63   |
| 2B      | IMAZETHAPYR         | 2.00 AS  | .078 LB/AC  | 15J       |                       |      |      |      |
| 2C      | X-77 (SURFACTANT)   | .50 WA   | .250 %      | 15J       |                       |      |      |      |
| 3A      | PENDIMETHALIN       | 4.00 E   | .750 LB/AC  | PPI       | 73                    | 90   | 0    | 73   |
| 3B      | IMAZETHAPYR         | 2.00 AS  | .063 LB/AC  | 15J       |                       |      |      |      |
| 3C      | X-77 (SURFACTANT)   | .50 WA   | .250 %      | 15J       |                       |      |      |      |
| 3D      | 10 34 0             | .00 AD   | 1.000 QT/AC | 15J       |                       |      |      |      |
| 4A      | PENDIMETHALIN       | 4.00 E   | .750 LB/AC  | PPI       | 80                    | 90   | 0    | 83   |
| 4B      | IMAZETHAPYR         | 2.00 AS  | .078 LB/AC  | 15J       |                       |      |      |      |
| 4C      | X-77 (SURFACTANT)   | .50 WA   | .250 %      | 15J       |                       |      |      |      |
| 4D      | 10 34 0             | .00 AD   | 1.000 QT/AC | 15J       |                       |      |      |      |
| 5       | FMC 57020           | 4.00 EC  | 1.000 LB/AC | PPI       | 47                    | 73   | 0    | 47   |
| 6       | FMC 57020           | 4.00 EC  | 2.000 LB/AC | PPI       | 40                    | 73   | 0    | 40   |
| 7A      | FMC 57020           | 4.00 EC  | 1.000 LB/AC | PPI       | 47                    | 80   | 0    | 47   |
| 7B      | TRIFLURALIN         | 4.00 E   | 1.000 LB/AC | PPI       |                       |      |      |      |
| 8       | TRIFLURALIN         | 4.00 E   | 2.000 LB/AC | PPI       | 33                    | 73   | 0    | 33   |
| 9A      | DPX 8259            | 60.00 DF | .750 LB/AC  | PRE       | 90                    | 83   | 0    | 90   |
| 9B      | QUIZALOFOP          | .80 L    | .050 LB/AC  | 21J       |                       |      |      |      |
| 9C      | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 21J       |                       |      |      |      |
| 10A     | DPX 8259            | 60.00 DF | .750 LB/AC  | PRE       | 83                    | 80   | 0    | 83   |
| 10B     | QUIZALOFOP          | .80 L    | .080 LB/AC  | 21J       |                       |      |      |      |
| 10C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 21J       |                       |      |      |      |

LSD (05) : 9 8 0 9

LOCATION: PRINCETON SOIL TYPE: CRIDER SILT LOAM  
 FERTILIZATION (LB/AC): 0 N, 60 P, 60 K PH: 6.5 O.M.: 2.0%  
 DATE PLANTED: MAY 19 DATE TREATED: PPI MAY 19  
 VARIETY: ESSEX PRE MAY 19  
 15J JUNE 11  
 21J JUNE 20

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7103 SOYBEAN JOHNSONGRASS POSTEMERGENCE

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA  | RATE        | APPL<br>METH | -----4 WEEKS --- |      |      |
|------------|------------------------|----------|-------------|--------------|------------------|------|------|
|            |                        |          |             |              | GRAS             | BRLE | JOGR |
| 1A         | SETHOXYDIM             | 1.53 EC  | .100 LB/AC  | 12J          | 100              | 77   | 90   |
| 1B         | DAX                    | .00 AD   | 1.000 QT/AC | 12J          |                  |      |      |
| 1C         | SETHOXYDIM             | 1.53 EC  | .100 LB/AC  | 12R          |                  |      |      |
| 1D         | DAX                    | .00 AD   | 1.000 QT/AC | 12R          |                  |      |      |
| 2A         | SETHOXYDIM             | 1.53 EC  | .100 LB/AC  | 12J          | 97               | 47   | 90   |
| 2B         | DAX                    | .00 AD   | 1.000 QT/AC | 12J          |                  |      |      |
| 2C         | SETHOXYDIM             | 1.53 EC  | .200 LB/AC  | 12R          |                  |      |      |
| 2D         | DAX                    | .00 AD   | 1.000 QT/AC | 12R          |                  |      |      |
| 3A         | SETHOXYDIM             | 1.53 EC  | .100 LB/AC  | 12J          | 100              | 33   | 87   |
| 3B         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | 12J          |                  |      |      |
| 3C         | SETHOXYDIM             | 1.53 EC  | .200 LB/AC  | 12R          |                  |      |      |
| 3D         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | 12R          |                  |      |      |
| 4A         | SETHOXYDIM             | 1.53 EC  | .200 LB/AC  | 12J          | 100              | 50   | 93   |
| 4B         | DAX                    | .00 AD   | 1.000 QT/AC | 12J          |                  |      |      |
| 4C         | SETHOXYDIM             | 1.53 EC  | .200 LB/AC  | 12R          |                  |      |      |
| 4D         | DAX                    | .00 AD   | 1.000 QT/AC | 12R          |                  |      |      |
| 5A         | SETHOXYDIM             | 1.53 EC  | .200 LB/AC  | 12J          | 100              | 57   | 90   |
| 5B         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | 12J          |                  |      |      |
| 5C         | SETHOXYDIM             | 1.53 EC  | .200 LB/AC  | 12R          |                  |      |      |
| 5D         | DAX                    | .00 AD   | 1.000 QT/AC | 12R          |                  |      |      |
| 6A         | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | 15J          | 83               | 40   | 77   |
| 6B         | BENTAZON               | 4.00 E   | .750 LB/AC  | 15J          |                  |      |      |
| 6C         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | 15J          |                  |      |      |
| 7A         | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | 15J          | 100              | 97   | 60   |
| 7B         | FOMESAFEN              | 2.00 LC  | .250 LB/AC  | 15J          |                  |      |      |
| 7C         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | 15J          |                  |      |      |
| 8A         | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | 15J          | 100              | 73   | 67   |
| 8B         | BENTAZON               | 4.00 E   | .750 LB/AC  | 15J          |                  |      |      |
| 8C         | FOMESAFEN              | 2.00 LC  | .188 LB/AC  | 15J          |                  |      |      |
| 8D         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | 15J          |                  |      |      |
| 9A         | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | 15J          | 93               | 63   | 77   |
| 9B         | CHLORIMURON            | 25.00 DF | .008 LB/AC  | 15J          |                  |      |      |
| 9C         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | 15J          |                  |      |      |
| 10A        | FLUAZIFOP-BUYTL        | 1.00 E   | .156 LB/AC  | 15J          | 100              | 47   | 63   |
| 10B        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | 15J          |                  |      |      |
| 10C        | BENTAZON               | 4.00 E   | .750 LB/AC  | MP           |                  |      |      |
| 10D        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | MP           |                  |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7103 SOYBEAN JOHNSONGRASS POSTEMERGENCE

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----4 WEEKS ---- |      |      |
|---------|---------------------|----------|-------------|-----------|-------------------|------|------|
|         |                     |          |             |           | GRAS              | BRLE | JOGR |
| 11A     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | 15J       | 90                | 47   | 80   |
| 11B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 15J       |                   |      |      |
| 11C     | BENTAZON            | 4.00 E   | .750 LB/AC  | MP        |                   |      |      |
| 11D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                   |      |      |
| 12A     | FLUAZIFOP-BUYTL     | 1.00 E   | .156 LB/AC  | 15J       | 100               | 73   | 60   |
| 12B     | DAX                 | .00 AD   | 1.000 QT/AC | 15J       |                   |      |      |
| 12C     | BENTAZON            | 4.00 E   | .750 LB/AC  | MP        |                   |      |      |
| 12D     | DAX                 | .00 AD   | 1.000 QT/AC | MP        |                   |      |      |
| 13A     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | 15J       | 100               | 70   | 60   |
| 13B     | DAX                 | .00 AD   | 1.000 QT/AC | 15J       |                   |      |      |
| 13C     | BENTAZON            | 4.00 E   | .750 LB/AC  | MP        |                   |      |      |
| 13D     | DAX                 | .00 AD   | 1.000 QT/AC | MP        |                   |      |      |
| 14A     | FLUAZIFOP-BUYTL     | 1.00 E   | .156 LB/AC  | 15J       | 93                | 60   | 87   |
| 14B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 15J       |                   |      |      |
| 14C     | BENTAZON            | 4.00 E   | .750 LB/AC  | MP        |                   |      |      |
| 14D     | FOMESAFEN           | 2.00 LC  | .188 LB/AC  | MP        |                   |      |      |
| 14E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                   |      |      |
| 15A     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | 15J       | 100               | 93   | 80   |
| 15B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 15J       |                   |      |      |
| 15C     | BENTAZON            | 4.00 E   | .750 LB/AC  | MP        |                   |      |      |
| 15D     | FOMESAFEN           | 2.00 LC  | .188 LB/AC  | MP        |                   |      |      |
| 15E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                   |      |      |
| 16A     | FLUAZIFOP-BUYTL     | 1.00 E   | .156 LB/AC  | 15J       | 100               | 60   | 80   |
| 16B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 15J       |                   |      |      |
| 16C     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | MP        |                   |      |      |
| 16D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                   |      |      |
| 17A     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | 15J       | 97                | 97   | 87   |
| 17B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 15J       |                   |      |      |
| 17C     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | MP        |                   |      |      |
| 17D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                   |      |      |
| 18A     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | 15J       | 100               | 100  | 80   |
| 18B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 15J       |                   |      |      |
| 18C     | CHLORIMURON         | 25.00 DF | .008 LB/AC  | MP        |                   |      |      |
| 18D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                   |      |      |
| 19A     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | 15J       | 100               | 100  | 67   |
| 19B     | CHLORIMURON         | 25.00 DF | .004 LB/AC  | 15J       |                   |      |      |
| 19C     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | 15J       |                   |      |      |
| 19D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 15J       |                   |      |      |



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7103 SOYBEAN JOHNSONGRASS POSTEMERGENCE

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | -----4 WEEKS ---- |      |      |
|---------|---------------------|----------|-------------|-----------|-------------------|------|------|
|         |                     |          |             |           | GRAS              | BRLE | JOGR |
| 20A     | FLUAZIFOP-BUYTL     | 1.00 E   | .156 LB/AC  | 15J       | 100               | 87   | 73   |
| 20B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 15J       |                   |      |      |
| 20C     | CHLORIMURON         | 25.00 DF | .004 LB/AC  | MP        |                   |      |      |
| 20D     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | MP        |                   |      |      |
| 20E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                   |      |      |
| 21A     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | 15J       | 100               | 73   | 87   |
| 21B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 15J       |                   |      |      |
| 21C     | CHLORIMURON         | 25.00 DF | .004 LB/AC  | MP        |                   |      |      |
| 21D     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | MP        |                   |      |      |
| 21E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                   |      |      |
| 22A     | IMAZETHAPYR         | 2.00 AS  | .078 LB/AC  | 15J       | 100               | 93   | 43   |
| 22B     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | 15J       |                   |      |      |
| 23A     | IMAZETHAPYR         | 2.00 AS  | .094 LB/AC  | 15J       | 87                | 97   | 80   |
| 23B     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | 15J       |                   |      |      |
| 24A     | IMAZETHAPYR         | 2.00 AS  | .078 LB/AC  | 15J       | 100               | 97   | 53   |
| 24B     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | 15J       |                   |      |      |
| 24C     | 10 34 0             | .00 AD   | 1.000 QT/AC | 15J       |                   |      |      |
| 25A     | IMAZETHAPYR         | 2.00 AS  | .094 LB/AC  | 15J       | 100               | 90   | 37   |
| 25B     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | 15J       |                   |      |      |
| 25C     | 10 34 0             | .00 AD   | 1.000 QT/AC | 15J       |                   |      |      |
| 26A     | RE 45601            | 2.00 EC  | .125 LB/AC  | 18J       | 100               | 70   | 83   |
| 26B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 18J       |                   |      |      |
| 27A     | RE 45601            | 2.00 EC  | .250 LB/AC  | 18J       | 100               | 37   | 90   |
| 27B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 18J       |                   |      |      |
| 28A     | RE 45601            | 2.00 EC  | .060 LB/AC  | 18J       | 93                | 73   | 93   |
| 28B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 18J       |                   |      |      |
| 28C     | RE 45601            | 2.00 EC  | .060 LB/AC  | 6J        |                   |      |      |
| 28D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 6J        |                   |      |      |
| 29A     | RE 45601            | 2.00 EC  | .125 LB/AC  | 18J       | 100               | 30   | 100  |
| 29B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 18J       |                   |      |      |
| 29C     | RE 45601            | 2.00 EC  | .125 LB/AC  | 6J        |                   |      |      |
| 29D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 6J        |                   |      |      |
| 30A     | RE 45601            | 2.00 EC  | .250 LB/AC  | 18J       | 100               | 53   | 100  |
| 30B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 18J       |                   |      |      |
| 30C     | RE 45601            | 2.00 EC  | .250 LB/AC  | 6J        |                   |      |      |
| 30D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | 6J        |                   |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7103 SOYBEAN JOHNSONGRASS POSTEMERGENCE

| TRT NO.   | HERBICIDE TREATMENT | FORMULA | RATE           | APPL METH | -----4 WEEKS --- |      |      |
|-----------|---------------------|---------|----------------|-----------|------------------|------|------|
|           |                     |         |                |           | GRAS             | BRLE | JOGR |
| 31A       | BAS 517             | 1.67 E  | .100 LB/AC LP  | 93        | 57               | 87   |      |
| 31B       | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC LP |           |                  |      |      |
| 32A       | BAS 517             | 1.67 E  | .200 LB/AC LP  | 100       | 20               | 87   |      |
| 32B       | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC LP |           |                  |      |      |
| LSD (05): |                     |         |                | NS        | 39               | 23   |      |

LOCATION: PRINCETON SOIL TYPE: CRIDER SILT LOAM  
 FERTILIZATION (LB/AC): 0 N, 60 P, 60 K PH: 6.5 O.M.: 2.0%  
 DATE PLANTED: MAY 19 DATE TREATED: 12J, 15J JUNE 11  
 VARIETY: ESSEX MP JUNE 24  
 18J JUNE 20  
 LP JUNE 19  
 6J, 12R JULY 10

6J = 6 INCH JOHNSONGRASS  
 12J = 12 INCH JOHNSONGRASS  
 12R = JOHNSONGRASS REGROWTH REACHES 12 INCHES  
 15J = 15 INCH JOHNSONGRASS  
 21J = 21 INCH JOHNSONGRASS  
 TREATMENTS 1-5, 26-30 ARE IN 10 GPA

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7112 COCKLEBUR CONTROL IN SOYBEANS

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA  | RATE        | APPL<br>METH | ---4 WEEKS AFTER APPL |      |      |      |
|------------|------------------------|----------|-------------|--------------|-----------------------|------|------|------|
|            |                        |          |             |              | GRAS                  | BRLE | CRIN | COCB |
| 1A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 97                    | 83   | 3    | 83   |
| 1B         | CHLORIMURON            | 25.00 DF | .008 LB/AC  | MP           |                       |      |      |      |
| 1C         | X-77 (SURFACTANT)      | .50 WA   | .250 %      | MP           |                       |      |      |      |
| 2A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 100                   | 90   | 3    | 90   |
| 2B         | CHLORIMURON            | 25.00 DF | .008 LB/AC  | MP           |                       |      |      |      |
| 2C         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | MP           |                       |      |      |      |
| 3A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 97                    | 90   | 3    | 90   |
| 3B         | CHLORIMURON            | 25.00 DF | .012 LB/AC  | MP           |                       |      |      |      |
| 3C         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | MP           |                       |      |      |      |
| 4A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 97                    | 83   | 10   | 87   |
| 4B         | CHLORIMURON            | 25.00 DF | .004 LB/AC  | MP           |                       |      |      |      |
| 4C         | X-77 (SURFACTANT)      | .50 WA   | .250 %      | MP           |                       |      |      |      |
| 4D         | LIQUID FERTILIZER      | .00 AD   | 4.000 QT/AC | MP           |                       |      |      |      |
| 5A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 97                    | 83   | 10   | 87   |
| 5B         | CHLORIMURON            | 25.00 DF | .004 LB/AC  | MP           |                       |      |      |      |
| 5C         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | MP           |                       |      |      |      |
| 5D         | LIQUID FERTILIZER      | .00 AD   | 4.000 QT/AC | MP           |                       |      |      |      |
| 6A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 97                    | 87   | 10   | 90   |
| 6B         | CHLORIMURON            | 25.00 DF | .008 LB/AC  | MP           |                       |      |      |      |
| 6C         | IMAZAQUIN              | 1.50 AS  | .030 LB/AC  | MP           |                       |      |      |      |
| 6D         | X-77 (SURFACTANT)      | .50 WA   | .250 %      | MP           |                       |      |      |      |
| 7A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 97                    | 93   | 7    | 93   |
| 7B         | CHLORIMURON            | 25.00 DF | .012 LB/AC  | MP           |                       |      |      |      |
| 7C         | IMAZAQUIN              | 1.50 AS  | .030 LB/AC  | MP           |                       |      |      |      |
| 7D         | X-77 (SURFACTANT)      | .50 WA   | .250 %      | MP           |                       |      |      |      |
| 8A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 93                    | 90   | 10   | 93   |
| 8B         | CHLORIMURON            | 25.00 DF | .008 LB/AC  | MP           |                       |      |      |      |
| 8C         | IMAZAQUIN              | 1.50 AS  | .063 LB/AC  | MP           |                       |      |      |      |
| 8D         | X-77 (SURFACTANT)      | .50 WA   | .250 %      | MP           |                       |      |      |      |
| 9A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 97                    | 90   | 7    | 97   |
| 9B         | CHLORIMURON            | 25.00 DF | .012 LB/AC  | MP           |                       |      |      |      |
| 9C         | IMAZAQUIN              | 1.50 AS  | .063 LB/AC  | MP           |                       |      |      |      |
| 9D         | X-77 (SURFACTANT)      | .50 WA   | .250 %      | MP           |                       |      |      |      |

## DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7112 COCKLEBUR CONTROL IN SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA | RATE        | APPL METH | ---4 WEEKS AFTER APPL |      |      |      |
|---------|----------------------|---------|-------------|-----------|-----------------------|------|------|------|
|         |                      |         |             |           | GRAS                  | BRLE | CRIN | COCB |
| 10A     | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 100                   | 80   | 0    | 87   |
| 10B     | IMAZAQUIN            | 1.50 AS | .063 LB/AC  | EP        |                       |      |      |      |
| 10C     | OIL CONCENTRATE      | .00 AD  | 1.000 QT/AC | EP        |                       |      |      |      |
| 11A     | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 93                    | 63   | 0    | 67   |
| 11B     | ACIFLUORFEN 2        | 2.00 L  | .250 LB/AC  | MP        |                       |      |      |      |
| 11C     | TRITON AG 98 SURFACT | .00 WA  | .250 %      | MP        |                       |      |      |      |
| 12A     | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 97                    | 80   | 7    | 83   |
| 12B     | ACIFLUORFEN 2        | 2.00 L  | .380 LB/AC  | MP        |                       |      |      |      |
| 12C     | TRITON AG 98 SURFACT | .00 WA  | .250 %      | MP        |                       |      |      |      |
| 13A     | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 97                    | 83   | 3    | 90   |
| 13B     | ACIFLUORFEN 2        | 2.00 L  | .250 LB/AC  | MP        |                       |      |      |      |
| 13C     | IMAZAQUIN            | 1.50 AS | .030 LB/AC  | MP        |                       |      |      |      |
| 13D     | TRITON AG 98 SURFACT | .00 WA  | .250 %      | MP        |                       |      |      |      |
| 14A     | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 93                    | 77   | 7    | 90   |
| 14B     | ACIFLUORFEN 2        | 2.00 L  | .250 LB/AC  | MP        |                       |      |      |      |
| 14C     | IMAZAQUIN            | 1.50 AS | .060 LB/AC  | MP        |                       |      |      |      |
| 14D     | TRITON AG 98 SURFACT | .00 WA  | .250 %      | MP        |                       |      |      |      |
| 15A     | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 97                    | 80   | 3    | 90   |
| 15B     | ACIFLUORFEN 2        | 2.00 L  | .250 LB/AC  | MP        |                       |      |      |      |
| 15C     | IMAZAQUIN            | 1.50 AS | .090 LB/AC  | MP        |                       |      |      |      |
| 15D     | TRITON AG 98 SURFACT | .00 WA  | .250 %      | MP        |                       |      |      |      |
| 16A     | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 93                    | 90   | 3    | 93   |
| 16B     | ACIFLUORFEN 2        | 2.00 L  | .380 LB/AC  | MP        |                       |      |      |      |
| 16C     | IMAZAQUIN            | 1.50 AS | .060 LB/AC  | MP        |                       |      |      |      |
| 16D     | TRITON AG 98 SURFACT | .00 WA  | .250 %      | MP        |                       |      |      |      |
| 17A     | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 100                   | 83   | 0    | 90   |
| 17B     | ACIFLUORFEN 2        | 2.00 L  | .380 LB/AC  | MP        |                       |      |      |      |
| 17C     | IMAZAQUIN            | 1.50 AS | .090 LB/AC  | MP        |                       |      |      |      |
| 17D     | TRITON AG 98 SURFACT | .00 WA  | .250 %      | MP        |                       |      |      |      |
| 18A     | ALACHLOR             | 4.00 MT | 2.500 LB/AC | PRE       | 100                   | 87   | 0    | 97   |
| 18B     | IMAZAQUIN            | 1.50 AS | .060 LB/AC  | PRE       |                       |      |      |      |
| 18C     | ACIFLUORFEN 2        | 2.00 L  | .250 LB/AC  | MP        |                       |      |      |      |
| 18D     | TRITON AG 98 SURFACT | .00 WA  | .250 %      | MP        |                       |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7112 COCKLEBUR CONTROL IN SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | ---4 WEEKS AFTER APPL |      |      |      |
|---------|----------------------|----------|-------------|-----------|-----------------------|------|------|------|
|         |                      |          |             |           | GRAS                  | BRLE | CRIN | COCB |
| 19A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100                   | 87   | 0    | 87   |
| 19B     | IMAZAQUIN            | 1.50 AS  | .060 LB/AC  | PRE       |                       |      |      |      |
| 19C     | ACIFLUORFEN 2        | 2.00 L   | .380 LB/AC  | MP        |                       |      |      |      |
| 19D     | TRITON AG 98 SURFACT | .00 WA   | .250 %      | MP        |                       |      |      |      |
| 20A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100                   | 93   | 7    | 93   |
| 20B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                       |      |      |      |
| 20C     | ACIFLUORFEN 2        | 2.00 L   | .250 LB/AC  | MP        |                       |      |      |      |
| 20D     | TRITON AG 98 SURFACT | .00 WA   | .250 %      | MP        |                       |      |      |      |
| 21A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 93                    | 87   | 0    | 90   |
| 21B     | DPX 32054            | 25.00 DF | .004 LB/AC  | MP        |                       |      |      |      |
| 21C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | MP        |                       |      |      |      |
| 22A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 97                    | 80   | 7    | 83   |
| 22B     | DPX 32054            | 25.00 DF | .008 LB/AC  | MP        |                       |      |      |      |
| 22C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | MP        |                       |      |      |      |
| 23A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 90                    | 77   | 3    | 83   |
| 23B     | DPX 32054            | 25.00 DF | .012 LB/AC  | MP        |                       |      |      |      |
| 23C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | MP        |                       |      |      |      |
| 24A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 87                    | 83   | 3    | 83   |
| 24B     | DPX 32054            | 25.00 DF | .008 LB/AC  | MP        |                       |      |      |      |
| 24C     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                       |      |      |      |
| 25A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100                   | 90   | 0    | 90   |
| 25B     | DPX 32054            | 25.00 DF | .012 LB/AC  | MP        |                       |      |      |      |
| 25C     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                       |      |      |      |
| 26A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 90                    | 80   | 3    | 83   |
| 26B     | DPX 32054            | 25.00 DF | .008 LB/AC  | MP        |                       |      |      |      |
| 26C     | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | MP        |                       |      |      |      |
| 27A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 97                    | 83   | 0    | 83   |
| 27B     | DPX 32054            | 25.00 DF | .012 LB/AC  | MP        |                       |      |      |      |
| 27C     | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | MP        |                       |      |      |      |
| 28A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 90                    | 83   | 0    | 90   |
| 28B     | DPX 32054            | 25.00 DF | .008 LB/AC  | MP        |                       |      |      |      |
| 28C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | MP        |                       |      |      |      |
| 28D     | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | MP        |                       |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7112 COCKLEBUR CONTROL IN SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | ---4 WEEKS AFTER APPL |      |      |      |
|---------|----------------------|----------|-------------|-----------|-----------------------|------|------|------|
|         |                      |          |             |           | GRAS                  | BRLE | CRIN | COCB |
| 29A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 93                    | 87   | 7    | 93   |
| 29B     | DPX 32054            | 25.00 DF | .012 LB/AC  | MP        |                       |      |      |      |
| 29C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | MP        |                       |      |      |      |
| 29D     | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | MP        |                       |      |      |      |
| 30A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 97                    | 80   | 7    | 97   |
| 30B     | DPX 32054            | 25.00 DF | .008 LB/AC  | MP        |                       |      |      |      |
| 30C     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                       |      |      |      |
| 30D     | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | MP        |                       |      |      |      |
| 31A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 93                    | 83   | 10   | 83   |
| 31B     | DPX 32054            | 25.00 DF | .012 LB/AC  | MP        |                       |      |      |      |
| 31C     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                       |      |      |      |
| 31D     | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | MP        |                       |      |      |      |
| 32A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 90                    | 87   | 0    | 90   |
| 32B     | CHLORIMURON + METRIB | 75.00 DF | .380 LB/AC  | PPI       |                       |      |      |      |
| 33A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 80                    | 83   | 0    | 83   |
| 33B     | CHLORIMURON + METRIB | 75.00 DF | .230 LB/AC  | PPI       |                       |      |      |      |
| 34A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 100                   | 90   | 0    | 100  |
| 34B     | IMAZAQUIN            | 1.50 AS  | .060 LB/AC  | EP        |                       |      |      |      |
| 34C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                       |      |      |      |
| 35A     | TRIFLURALIN          | 4.00 E   | .750 LB/AC  | PPI       | 93                    | 87   | 0    | 93   |
| 35B     | METRIBUZIN 1         | 4.00 F   | .250 LB/AC  | PPI       |                       |      |      |      |
| 35C     | IMAZAQUIN            | 1.50 AS  | .090 LB/AC  | PPI       |                       |      |      |      |
| 36A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 93                    | 83   | 7    | 87   |
| 36B     | LACTOFEN             | 2.00 E   | .200 LB/AC  | EP        |                       |      |      |      |
| 37A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 90                    | 87   | 0    | 87   |
| 37B     | LACTOFEN             | 2.00 E   | .200 LB/AC  | EP        |                       |      |      |      |
| 37C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                       |      |      |      |
| 38A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 87                    | 80   | 7    | 83   |
| 38B     | LACTOFEN             | 2.00 E   | .150 LB/AC  | EP        |                       |      |      |      |
| 38C     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | EP        |                       |      |      |      |

## DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7112 COCKLEBUR CONTROL IN SOYBEANS

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA  | RATE        | APPL<br>METH | ---4 WEEKS AFTER APPL |      |      |      |
|------------|------------------------|----------|-------------|--------------|-----------------------|------|------|------|
|            |                        |          |             |              | GRAS                  | BRLE | CRIN | COCB |
| 39A        | TRIFLURALIN            | 4.00 E   | 1.000 LB/AC | PPI          | 90                    | 83   | 3    | 83   |
| 39B        | LACTOFEN               | 2.00 E   | .200 LB/AC  | EP           |                       |      |      |      |
| 39C        | OIL CONCENTRATE        | .00 AD   | .500 QT/AC  | EP           |                       |      |      |      |
| 40A        | TRIFLURALIN            | 4.00 E   | 1.000 LB/AC | PPI          | 93                    | 87   | 3    | 93   |
| 40B        | LACTOFEN               | 2.00 E   | .150 LB/AC  | EP           |                       |      |      |      |
| 40C        | BENTAZON               | 4.00 E   | .380 LB/AC  | EP           |                       |      |      |      |
| 40D        | OIL CONCENTRATE        | .00 AD   | .500 QT/AC  | EP           |                       |      |      |      |
| 41A        | TRIFLURALIN            | 4.00 E   | 1.000 LB/AC | PPI          | 97                    | 93   | 3    | 97   |
| 41B        | LACTOFEN               | 2.00 E   | .150 LB/AC  | EP           |                       |      |      |      |
| 41C        | IMAZAQUIN              | 1.50 AS  | .125 LB/AC  | EP           |                       |      |      |      |
| 41D        | OIL CONCENTRATE        | .00 AD   | .500 QT/AC  | EP           |                       |      |      |      |
| 42A        | TRIFLURALIN            | 4.00 E   | 1.000 LB/AC | PPI          | 100                   | 90   | 7    | 90   |
| 42B        | LACTOFEN               | 2.00 E   | .150 LB/AC  | EP           |                       |      |      |      |
| 42C        | CHLORIMURON            | 25.00 DF | .008 LB/AC  | EP           |                       |      |      |      |
| 42D        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                       |      |      |      |
| 43A        | TRIFLURALIN            | 4.00 E   | .750 LB/AC  | PPI          | 97                    | 97   | 3    | 97   |
| 43B        | IMAZETHAPYR            | 2.00 AS  | .090 LB/AC  | PPI          |                       |      |      |      |
| 44A        | TRIFLURALIN            | 4.00 E   | .750 LB/AC  | PPI          | 100                   | 93   | 3    | 100  |
| 44B        | IMAZETHAPYR            | 2.00 AS  | .060 LB/AC  | EP           |                       |      |      |      |
| 44C        | X-77 (SURFACTANT)      | .50 WA   | .250 %      | EP           |                       |      |      |      |
| 45A        | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PPI          | 93                    | 80   | 3    | 87   |
| 45B        | METRIBUZIN 1           | 4.00 F   | .330 LB/AC  | PPI          |                       |      |      |      |
| 45C        | IMAZAQUIN              | 1.50 AS  | .090 LB/AC  | PPI          |                       |      |      |      |
| 46A        | METRIBUZIN 1           | 4.00 F   | .280 LB/AC  | PPI          | 73                    | 63   | 0    | 63   |
| 46B        | FMC 57020              | 4.00 EC  | .750 LB/AC  | PPI          |                       |      |      |      |
| 47A        | METRIBUZIN 1           | 4.00 F   | .375 LB/AC  | PPI          | 83                    | 77   | 7    | 83   |
| 47B        | FMC 57020              | 4.00 EC  | .750 LB/AC  | PPI          |                       |      |      |      |
| 48A        | ETHALFLURALIN          | 3.00 E   | .750 LB/AC  | PPI          | 100                   | 87   | 0    | 90   |
| 48B        | IMAZETHAPYR            | 2.00 AS  | .090 LB/AC  | PPI          |                       |      |      |      |
| 49A        | ETHALFLURALIN          | 3.00 E   | .750 LB/AC  | PPI          | 93                    | 90   | 0    | 93   |
| 49B        | IMAZETHAPYR            | 2.00 AS  | .060 LB/AC  | EP           |                       |      |      |      |
| 49C        | X-77 (SURFACTANT)      | .50 WA   | .250 %      | EP           |                       |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7112 COCKLEBUR CONTROL IN SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | ---4 WEEKS AFTER APPL |      |      |      |
|---------|----------------------|----------|-------------|-----------|-----------------------|------|------|------|
|         |                      |          |             |           | GRAS                  | BRLE | CRIN | COCB |
| 50A     | ETHALFLURALIN        | 3.00 E   | .750 LB/AC  | PPI       | 93                    | 90   | 10   | 90   |
| 50B     | CHLORIMURON + METRIB | 75.00 DF | .380 LB/AC  | PPI       |                       |      |      |      |
| 51A     | ETHALFLURALIN        | 3.00 E   | .750 LB/AC  | PPI       | 83                    | 63   | 0    | 70   |
| 51B     | CHLORIMURON + METRIB | 75.00 DF | .230 LB/AC  | PPI       |                       |      |      |      |
| 52A     | ETHALFLURALIN        | 3.00 E   | .750 LB/AC  | PPI       | 93                    | 87   | 3    | 90   |
| 52B     | IMAZAQUIN            | 1.50 AS  | .060 LB/AC  | EP        |                       |      |      |      |
| 52C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                       |      |      |      |
| 53A     | PENDIMETHALIN        | 4.00 E   | .750 LB/AC  | PPI       | 93                    | 90   | 7    | 90   |
| 53B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PPI       |                       |      |      |      |
| 54      | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       | 90                    | 70   | 3    | 73   |
| 55      | FMC 57020            | 4.00 EC  | 1.000 LB/AC | PPI       | 77                    | 67   | 7    | 70   |
| 56      | FMC 57020            | 4.00 EC  | 1.250 LB/AC | PPI       | 87                    | 73   | 0    | 83   |
| 57A     | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       | 87                    | 90   | 3    | 93   |
| 57B     | IMAZAQUIN            | 1.50 AS  | .060 LB/AC  | PPI       |                       |      |      |      |
| 58A     | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       | 87                    | 87   | 0    | 93   |
| 58B     | IMAZAQUIN            | 1.50 AS  | .090 LB/AC  | PPI       |                       |      |      |      |
| 59A     | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       | 90                    | 77   | 3    | 80   |
| 59B     | CHLORIMURON + METRIB | 75.00 DF | .250 LB/AC  | PPI       |                       |      |      |      |
| 60A     | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       | 87                    | 83   | 3    | 90   |
| 60B     | CHLORIMURON          | 25.00 DF | .008 LB/AC  | EP        |                       |      |      |      |
| 60C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                       |      |      |      |
| 61A     | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       | 87                    | 77   | 0    | 90   |
| 61B     | BENTAZON             | 4.00 E   | .750 LB/AC  | MP        |                       |      |      |      |
| 61C     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | MP        |                       |      |      |      |
| 62A     | FMC 57020            | 4.00 EC  | .750 LB/AC  | PPI       | 83                    | 80   | 0    | 90   |
| 62B     | LACTOFEN             | 2.00 E   | .200 LB/AC  | EP        |                       |      |      |      |
| 63A     | TRIFLUR. + FMC 57020 | 5.25 EC  | 1.310 LB/AC | PPI       | 77                    | 60   | 3    | 63   |
| 63B     | METRIBUZIN           | 75.00 DF | .380 LB/AC  | PPI       |                       |      |      |      |



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7112 COCKLEBUR CONTROL IN SOYBEANS

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA  | RATE        | APPL<br>METH | ---4 WEEKS AFTER APPL |      |      |      |
|------------|------------------------|----------|-------------|--------------|-----------------------|------|------|------|
|            |                        |          |             |              | GRAS                  | BRLE | CRIN | COCB |
| 64A        | TRIFLUR. + FMC 57020   | 5.25 EC  | 1.310 LB/AC | PPI          | 100                   | 90   | 0    | 100  |
| 64B        | IMAZAQUIN              | 1.50 AS  | .060 LB/AC  | PPI          |                       |      |      |      |
| 65A        | TRIFLUR. + FMC 57020   | 5.25 EC  | 1.310 LB/AC | PPI          | 90                    | 80   | 0    | 80   |
| 65B        | CHLORIMURON + METRIB   | 75.00 DF | .230 LB/AC  | PPI          |                       |      |      |      |
| 66         | TREFLAN + METRIBUZIN   | 4.00 EC  | 1.125 LB/AC | PPI          | 90                    | 63   | 0    | 70   |
| 67A        | TREFLAN + METRIBUZIN   | 4.00 EC  | 1.125 LB/AC | PPI          | 93                    | 83   | 0    | 90   |
| 67B        | IMAZAQUIN              | 1.50 AS  | .090 LB/AC  | PPI          |                       |      |      |      |
| 68A        | TREFLAN + METRIBUZIN   | 4.00 EC  | 1.130 LB/AC | PPI          | 93                    | 87   | 10   | 90   |
| 68B        | IMAZAQUIN              | 1.50 AS  | .030 LB/AC  | EP           |                       |      |      |      |
| 68C        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                       |      |      |      |
| 69A        | METALACHLOR + METRIB   | 8.00 EC  | 1.750 LB/AC | PPI          | 93                    | 90   | 3    | 93   |
| 69B        | IMAZAQUIN              | 1.50 AS  | .090 LB/AC  | PPI          |                       |      |      |      |
| 70         | IMAZETHAPYR            | 2.00 AS  | .063 LB/AC  | PPI          | 90                    | 83   | 0    | 83   |
| 71         | IMAZETHAPYR            | 2.00 AS  | .078 LB/AC  | PPI          | 100                   | 93   | 7    | 97   |
| 72         | IMAZETHAPYR            | 2.00 AS  | .093 LB/AC  | PPI          | 87                    | 83   | 0    | 90   |
| 73A        | IMAZETHAPYR            | 2.00 AS  | .063 LB/AC  | PPI          | 93                    | 63   | 3    | 63   |
| 73B        | PENDIMETHALIN          | 4.00 E   | .750 LB/AC  | PPI          |                       |      |      |      |
| 74A        | IMAZETHAPYR            | 2.00 AS  | .063 LB/AC  | PRE          | 97                    | 90   | 3    | 93   |
| 74B        | ALACHLOR               | 4.00 MT  | 2.000 LB/AC | PRE          |                       |      |      |      |
| 75A        | IMAZETHAPYR            | 2.00 AS  | .063 LB/AC  | LP           | 73                    | 83   | 7    | 87   |
| 75B        | X-77 (SURFACTANT)      | .50 WA   | .250 %      | LP           |                       |      |      |      |
| 76A        | IMAZETHAPYR            | 2.00 AS  | .078 LB/AC  | LP           | 87                    | 93   | 0    | 93   |
| 76B        | X-77 (SURFACTANT)      | .50 WA   | .250 %      | LP           |                       |      |      |      |
| 77A        | IMAZETHAPYR            | 2.00 AS  | .093 LB/AC  | LP           | 83                    | 87   | 0    | 90   |
| 77B        | X-77 (SURFACTANT)      | .50 WA   | .250 %      | LP           |                       |      |      |      |
| 78A        | IMAZETHAPYR            | 2.00 AS  | .063 LB/AC  | LP           | 77                    | 90   | 0    | 93   |
| 78B        | X-77 (SURFACTANT)      | .50 WA   | .250 %      | LP           |                       |      |      |      |
| 78C        | 10 34 0                | .00 AD   | 1.000 QT/AC | LP           |                       |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7112 COCKLEBUR CONTROL IN SOYBEANS

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | ---4 WEEKS AFTER APPL |      |      |      |
|---------|---------------------|----------|-------------|-----------|-----------------------|------|------|------|
|         |                     |          |             |           | GRAS                  | BRLE | CRIN | COCB |
| 79A     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | EP        | 93                    | 87   | 0    | 90   |
| 79B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                       |      |      |      |
| 79C     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                       |      |      |      |
| 79D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                       |      |      |      |
| 80A     | FOMESAFEN           | 2.00 LC  | .313 LB/AC  | EP        | 93                    | 80   | 0    | 87   |
| 80B     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                       |      |      |      |
| 80C     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                       |      |      |      |
| 80D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                       |      |      |      |
| 81A     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | MP        | 97                    | 83   | 3    | 87   |
| 81B     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                       |      |      |      |
| 81C     | 2,4-DB              | 2.00 E   | .030 LB/AC  | MP        |                       |      |      |      |
| 81D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                       |      |      |      |
| 82A     | FOMESAFEN           | 2.00 LC  | .313 LB/AC  | MP        | 97                    | 93   | 7    | 97   |
| 82B     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                       |      |      |      |
| 82C     | 2,4-DB              | 2.00 E   | .030 LB/AC  | MP        |                       |      |      |      |
| 82D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                       |      |      |      |
| 83A     | FOMESAFEN           | 2.00 LC  | .125 LB/AC  | EP        | 93                    | 83   | 0    | 90   |
| 83B     | BENTAZON            | 4.00 E   | .750 LB/AC  | EP        |                       |      |      |      |
| 83C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                       |      |      |      |
| 83D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                       |      |      |      |
| 83E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                       |      |      |      |
| 84A     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | EP        | 100                   | 83   | 3    | 90   |
| 84B     | BENTAZON            | 4.00 E   | .500 LB/AC  | EP        |                       |      |      |      |
| 84C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                       |      |      |      |
| 84D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                       |      |      |      |
| 84E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                       |      |      |      |
| 85A     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | EP        | 90                    | 77   | 0    | 87   |
| 85B     | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        |                       |      |      |      |
| 85C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                       |      |      |      |
| 85D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                       |      |      |      |
| 85E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                       |      |      |      |
| 86A     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | EP        | 97                    | 87   | 10   | 90   |
| 86B     | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                       |      |      |      |
| 86C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                       |      |      |      |
| 86D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                       |      |      |      |
| 86E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                       |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7112 COCKLEBUR CONTROL IN SOYBEANS

| TRT NO.  | HERBICIDE TREATMENT | FORMULA | RATE        | APPL METH | ---4 WEEKS AFTER APPL |      |      |      |
|----------|---------------------|---------|-------------|-----------|-----------------------|------|------|------|
|          |                     |         |             |           | GRAS                  | BRLE | CRIN | COCB |
| 87A      | UBI 1484            | 2.00 L  | 1.500 LB/AC | LP        | 57                    | 90   | 3    | 93   |
| 87B      | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC | LP        |                       |      |      |      |
| 88A      | UBI 1484            | 2.00 L  | 1.500 LB/AC | LP        | 83                    | 80   | 3    | 83   |
| 88B      | ACIFLUORFEN 2       | 2.00 L  | .250 LB/AC  | LP        |                       |      |      |      |
| 88C      | X-77 (SURFACTANT)   | .50 WA  | .250 %      | LP        |                       |      |      |      |
| LSD(05): |                     |         |             |           | 10                    | 11   | 6    | 10   |

LOCATION: PRINCETON  
 FERTILIZATION (LB/AC): 0 N, 60 P, 60 K  
 DATE PLANTED: MAY 19  
 VARIETY: ESSEX

SOIL TYPE: CRIDER SILT LOAM  
 PH: 6.5 O.M.: 2.0%  
 DATE TREATED: PPI MAY 19  
 PRE MAY 19  
 EP JUNE 11  
 MP JUNE 18  
 LP JUNE 24

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7117 MORNINGGLORY CONTROL IN SOYBEANS

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA  | RATE        | APPL<br>METH | ----4 WEEKS AFTER APPLIED -- |      |      |      |      |
|------------|------------------------|----------|-------------|--------------|------------------------------|------|------|------|------|
|            |                        |          |             |              | GRAS                         | BRLE | CRIN | ILMG | TAMG |
| 1A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 90                           | 73   | 0    | 73   | 73   |
| 1B         | CHLORIMURON            | 25.00 DF | .008 LB/AC  | EP           |                              |      |      |      |      |
| 1C         | X-77 (SURFACTANT)      | .50 WA   | .250 %      | EP           |                              |      |      |      |      |
| 2A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 93                           | 73   | 0    | 73   | 73   |
| 2B         | CHLORIMURON            | 25.00 DF | .008 LB/AC  | EP           |                              |      |      |      |      |
| 2C         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                              |      |      |      |      |
| 3A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 93                           | 53   | 0    | 57   | 57   |
| 3B         | CHLORIMURON            | 25.00 DF | .004 LB/AC  | EP           |                              |      |      |      |      |
| 3C         | LIQUID FERTILIZER      | .00 AD   | 4.000 QT/AC | EP           |                              |      |      |      |      |
| 4A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 93                           | 73   | 0    | 73   | 77   |
| 4B         | CHLORIMURON            | 25.00 DF | .008 LB/AC  | EP           |                              |      |      |      |      |
| 4C         | X-77 (SURFACTANT)      | .50 WA   | .250 %      | EP           |                              |      |      |      |      |
| 4D         | LIQUID FERTILIZER      | .00 AD   | 4.000 QT/AC | EP           |                              |      |      |      |      |
| 5A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 93                           | 63   | 0    | 70   | 70   |
| 5B         | CHLORIMURON            | 25.00 DF | .008 LB/AC  | EP           |                              |      |      |      |      |
| 5C         | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                              |      |      |      |      |
| 5D         | LIQUID FERTILIZER      | .00 AD   | 4.000 QT/AC | EP           |                              |      |      |      |      |
| 6A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 97                           | 67   | 0    | 50   | 50   |
| 6B         | ACIFLUORFEN 2          | 2.00 L   | .250 LB/AC  | MP           |                              |      |      |      |      |
| 6C         | TRITON AG 98 SURFACT   | .00 WA   | .250 %      | MP           |                              |      |      |      |      |
| 7A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 93                           | 63   | 0    | 57   | 60   |
| 7B         | ACIFLUORFEN 2          | 2.00 L   | .380 LB/AC  | MP           |                              |      |      |      |      |
| 7C         | TRITON AG 98 SURFACT   | .00 WA   | .250 %      | MP           |                              |      |      |      |      |
| 8A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 97                           | 73   | 0    | 73   | 73   |
| 8B         | ACIFLUORFEN 2          | 2.00 L   | .250 LB/AC  | MP           |                              |      |      |      |      |
| 8C         | IMAZAQUIN              | 1.50 AS  | .030 LB/AC  | MP           |                              |      |      |      |      |
| 8D         | TRITON AG 98 SURFACT   | .00 WA   | .250 %      | MP           |                              |      |      |      |      |
| 9A         | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 93                           | 67   | 0    | 60   | 60   |
| 9B         | ACIFLUORFEN 2          | 2.00 L   | .250 LB/AC  | MP           |                              |      |      |      |      |
| 9C         | IMAZAQUIN              | 1.50 AS  | .060 LB/AC  | MP           |                              |      |      |      |      |
| 9D         | TRITON AG 98 SURFACT   | .00 WA   | .250 %      | MP           |                              |      |      |      |      |
| 10A        | ALACHLOR               | 4.00 MT  | 2.500 LB/AC | PRE          | 90                           | 77   | 0    | 70   | 70   |
| 10B        | ACIFLUORFEN 2          | 2.00 L   | .250 LB/AC  | MP           |                              |      |      |      |      |
| 10C        | IMAZAQUIN              | 1.50 AS  | .090 LB/AC  | MP           |                              |      |      |      |      |
| 10D        | TRITON AG 98 SURFACT   | .00 WA   | .250 %      | MP           |                              |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7117 MORNINGGLORY CONTROL IN SOYBEANS

| TRT NO. | HERBICIDE TREATMENT  | FORMULA  | RATE        | APPL METH | ----4 WEEKS AFTER APPLIED -- |      |      |      |      |
|---------|----------------------|----------|-------------|-----------|------------------------------|------|------|------|------|
|         |                      |          |             |           | GRAS                         | BRLE | CRIN | IIMG | TAMG |
| 11A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 97                           | 70   | 0    | 67   | 63   |
| 11B     | ACIFLUORFEN 2        | 2.00 L   | .380 LB/AC  | MP        |                              |      |      |      |      |
| 11C     | IMAZAQUIN            | 1.50 AS  | .060 LB/AC  | MP        |                              |      |      |      |      |
| 11D     | TRITON AG 98 SURFACT | .00 WA   | .250 %      | MP        |                              |      |      |      |      |
| 12A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 100                          | 77   | 0    | 70   | 70   |
| 12B     | ACIFLUORFEN 2        | 2.00 L   | .380 LB/AC  | MP        |                              |      |      |      |      |
| 12C     | IMAZAQUIN            | 1.50 AS  | .090 LB/AC  | MP        |                              |      |      |      |      |
| 12D     | TRITON AG 98 SURFACT | .00 WA   | .250 %      | MP        |                              |      |      |      |      |
| 13A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 97                           | 80   | 0    | 73   | 73   |
| 13B     | IMAZAQUIN            | 1.50 AS  | .125 LB/AC  | PRE       |                              |      |      |      |      |
| 13C     | ACIFLUORFEN 2        | 2.00 L   | .250 LB/AC  | MP        |                              |      |      |      |      |
| 13D     | TRITON AG 98 SURFACT | .00 WA   | .250 %      | MP        |                              |      |      |      |      |
| 14A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 93                           | 70   | 0    | 77   | 70   |
| 14B     | DPX 32054            | 25.00 DF | .008 LB/AC  | EP        |                              |      |      |      |      |
| 14C     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                              |      |      |      |      |
| 15A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 87                           | 67   | 0    | 70   | 73   |
| 15B     | DPX 32054            | 25.00 DF | .008 LB/AC  | EP        |                              |      |      |      |      |
| 15C     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                              |      |      |      |      |
| 16A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 87                           | 77   | 0    | 77   | 77   |
| 16B     | DPX 32054            | 25.00 DF | .008 LB/AC  | EP        |                              |      |      |      |      |
| 16C     | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | EP        |                              |      |      |      |      |
| 17A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 97                           | 67   | 0    | 70   | 73   |
| 17B     | DPX 32054            | 25.00 DF | .008 LB/AC  | EP        |                              |      |      |      |      |
| 17C     | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | EP        |                              |      |      |      |      |
| 17D     | X-77 (SURFACTANT)    | .50 WA   | .250 %      | EP        |                              |      |      |      |      |
| 18A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 97                           | 73   | 0    | 80   | 80   |
| 18B     | DPX 32054            | 25.00 DF | .008 LB/AC  | EP        |                              |      |      |      |      |
| 18C     | LIQUID FERTILIZER    | .00 AD   | 4.000 QT/AC | EP        |                              |      |      |      |      |
| 18D     | OIL CONCENTRATE      | .00 AD   | 1.000 QT/AC | EP        |                              |      |      |      |      |
| 19A     | ALACHLOR             | 4.00 MT  | 2.500 LB/AC | PRE       | 77                           | 60   | 0    | 60   | 60   |
| 19B     | CHLORIMURON + METRIB | 75.00 DF | .380 LB/AC  | PRE       |                              |      |      |      |      |
| 20A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 97                           | 80   | 0    | 83   | 87   |
| 20B     | LACTOFEN             | 2.00 E   | .200 LB/AC  | EP        |                              |      |      |      |      |
| 21A     | TRIFLURALIN          | 4.00 E   | 1.000 LB/AC | PPI       | 93                           | 80   | 0    | 80   | 80   |
| 21B     | LACTOFEN             | 2.00 E   | .150 LB/AC  | EP        |                              |      |      |      |      |
| 21C     | OIL CONCENTRATE      | .00 AD   | .500 QT/AC  | EP        |                              |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7117 MORNINGGLORY CONTROL IN SOYBEANS

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA  | RATE        | APPL<br>METH | ----4 WEEKS AFTER APPLIED -- |      |      |      |      |
|------------|------------------------|----------|-------------|--------------|------------------------------|------|------|------|------|
|            |                        |          |             |              | GRAS                         | BRLE | CRIN | ILMG | TAMG |
| 22A        | TRIFLURALIN            | 4.00 E   | 1.000 LB/AC | PPI          | 93                           | 80   | 0    | 83   | 83   |
| 22B        | LACTOFEN               | 2.00 E   | .200 LB/AC  | EP           |                              |      |      |      |      |
| 22C        | OIL CONCENTRATE        | .00 AD   | .500 QT/AC  | EP           |                              |      |      |      |      |
| 23A        | TRIFLURALIN            | 4.00 E   | 1.000 LB/AC | PPI          | 97                           | 87   | 0    | 87   | 87   |
| 23B        | LACTOFEN               | 2.00 E   | .200 LB/AC  | EP           |                              |      |      |      |      |
| 23C        | X-77 (SURFACTANT)      | .50 WA   | .250 %      | EP           |                              |      |      |      |      |
| 24A        | TRIFLURALIN            | 4.00 E   | 1.000 LB/AC | PPI          | 90                           | 87   | 0    | 90   | 90   |
| 24B        | LACTOFEN               | 2.00 E   | .150 LB/AC  | EP           |                              |      |      |      |      |
| 24C        | BENTAZON               | 4.00 E   | .380 LB/AC  | EP           |                              |      |      |      |      |
| 24D        | OIL CONCENTRATE        | .00 AD   | .500 QT/AC  | EP           |                              |      |      |      |      |
| 25A        | TRIFLURALIN            | 4.00 E   | 1.000 LB/AC | PPI          | 100                          | 90   | 0    | 90   | 90   |
| 25B        | LACTOFEN               | 2.00 E   | .150 LB/AC  | EP           |                              |      |      |      |      |
| 25C        | CHLORIMURON            | 25.00 DF | .008 LB/AC  | EP           |                              |      |      |      |      |
| 25D        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                              |      |      |      |      |
| 26A        | TRIFLURALIN            | 4.00 E   | 1.000 LB/AC | PPI          | 100                          | 90   | 0    | 87   | 87   |
| 26B        | LACTOFEN               | 2.00 E   | .150 LB/AC  | EP           |                              |      |      |      |      |
| 26C        | IMAZAQUIN              | 1.50 AS  | .125 LB/AC  | EP           |                              |      |      |      |      |
| 26D        | OIL CONCENTRATE        | .00 AD   | .500 QT/AC  | EP           |                              |      |      |      |      |
| 27A        | METOLACHLOR            | 8.00 E   | 2.000 LB/AC | PRE          | 90                           | 53   | 0    | 40   | 40   |
| 27B        | METRIBUZIN 1           | 4.00 F   | .330 LB/AC  | PRE          |                              |      |      |      |      |
| 28         | METALACHLOR + METRIB   | 8.00 EC  | 2.000 LB/AC | PRE          | 97                           | 50   | 0    | 43   | 43   |
| 29A        | METALACHLOR + METRIB   | 8.00 EC  | 2.000 LB/AC | PRE          | 93                           | 80   | 0    | 67   | 67   |
| 29B        | LINURON                | 4.00 L   | .380 LB/AC  | PRE          |                              |      |      |      |      |
| 30A        | FOMESAFEN              | 2.00 LC  | .250 LB/AC  | EP           | 90                           | 63   | 0    | 67   | 67   |
| 30B        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                              |      |      |      |      |
| 30C        | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           |                              |      |      |      |      |
| 30D        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | MP           |                              |      |      |      |      |
| 31A        | FOMESAFEN              | 2.00 LC  | .313 LB/AC  | EP           | 90                           | 70   | 0    | 70   | 70   |
| 31B        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | EP           |                              |      |      |      |      |
| 31C        | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           |                              |      |      |      |      |
| 31D        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | MP           |                              |      |      |      |      |
| 32A        | FOMESAFEN              | 2.00 LC  | .250 LB/AC  | MP           | 90                           | 67   | 0    | 70   | 70   |
| 32B        | FLUAZIFOP-BUYTL        | 1.00 E   | .188 LB/AC  | MP           |                              |      |      |      |      |
| 32C        | 2,4-DB                 | 2.00 E   | .030 LB/AC  | MP           |                              |      |      |      |      |
| 32D        | OIL CONCENTRATE        | .00 AD   | 1.000 QT/AC | MP           |                              |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7117 MORNINGGLORY CONTROL IN SOYBEANS

| TRT NO. | HERBICIDE TREATMENT | FORMULA  | RATE        | APPL METH | ----4 WEEKS AFTER APPLIED -- |      |      |      |      |
|---------|---------------------|----------|-------------|-----------|------------------------------|------|------|------|------|
|         |                     |          |             |           | GRAS                         | BRLE | CRIN | IIMG | TAMG |
| 33A     | FOMESAFEN           | 2.00 LC  | .313 LB/AC  | MP        | 93                           | 67   | 3    | 70   | 70   |
| 33B     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                              |      |      |      |      |
| 33C     | 2,4-DB              | 2.00 E   | .030 LB/AC  | MP        |                              |      |      |      |      |
| 33D     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                              |      |      |      |      |
| 34A     | FOMESAFEN           | 2.00 LC  | .125 LB/AC  | EP        | 90                           | 67   | 0    | 60   | 60   |
| 34B     | BENTAZON            | 4.00 E   | .750 LB/AC  | EP        |                              |      |      |      |      |
| 34C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                              |      |      |      |      |
| 34D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                              |      |      |      |      |
| 34E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                              |      |      |      |      |
| 35A     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | EP        | 93                           | 77   | 0    | 80   | 77   |
| 35B     | BENTAZON            | 4.00 E   | .500 LB/AC  | EP        |                              |      |      |      |      |
| 35C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                              |      |      |      |      |
| 35D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                              |      |      |      |      |
| 35E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                              |      |      |      |      |
| 36A     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | EP        | 90                           | 70   | 0    | 70   | 70   |
| 36B     | CHLORIMURON         | 25.00 DF | .004 LB/AC  | EP        |                              |      |      |      |      |
| 36C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                              |      |      |      |      |
| 36D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                              |      |      |      |      |
| 36E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                              |      |      |      |      |
| 37A     | FOMESAFEN           | 2.00 LC  | .250 LB/AC  | EP        | 97                           | 70   | 0    | 83   | 83   |
| 37B     | CHLORIMURON         | 25.00 DF | .008 LB/AC  | EP        |                              |      |      |      |      |
| 37C     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | EP        |                              |      |      |      |      |
| 37D     | FLUAZIFOP-BUYTL     | 1.00 E   | .188 LB/AC  | MP        |                              |      |      |      |      |
| 37E     | OIL CONCENTRATE     | .00 AD   | 1.000 QT/AC | MP        |                              |      |      |      |      |
| 38      | IMAZETHAPYR         | 2.00 AS  | .063 LB/AC  | PPI       | 93                           | 77   | 0    | 77   | 77   |
| 39      | IMAZETHAPYR         | 2.00 AS  | .078 LB/AC  | PPI       | 93                           | 77   | 0    | 73   | 73   |
| 40      | IMAZETHAPYR         | 2.00 AS  | .093 LB/AC  | PPI       | 93                           | 80   | 0    | 83   | 80   |
| 41A     | IMAZETHAPYR         | 2.00 AS  | .063 LB/AC  | LP        | 80                           | 67   | 0    | 73   | 73   |
| 41B     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | LP        |                              |      |      |      |      |
| 42A     | IMAZETHAPYR         | 2.00 AS  | .078 LB/AC  | LP        | 87                           | 87   | 0    | 80   | 80   |
| 42B     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | LP        |                              |      |      |      |      |
| 43A     | IMAZETHAPYR         | 2.00 AS  | .093 LB/AC  | LP        | 83                           | 80   | 0    | 77   | 77   |
| 43B     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | LP        |                              |      |      |      |      |
| 44A     | IMAZETHAPYR         | 2.00 AS  | .063 LB/AC  | LP        | 87                           | 87   | 0    | 90   | 87   |
| 44B     | X-77 (SURFACTANT)   | .50 WA   | .250 %      | LP        |                              |      |      |      |      |

DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE S7117 MORNINGGLORY CONTROL IN SOYBEANS

| TRT<br>NO. | HERBICIDE<br>TREATMENT | FORMULA | RATE       | APPL<br>METH | ----4 WEEKS AFTER APPLIED -- |      |      |      |      |
|------------|------------------------|---------|------------|--------------|------------------------------|------|------|------|------|
|            |                        |         |            |              | GRAS                         | BRLE | CRIN | IIMG | TAMG |
| 45A        | IMAZETHAPYR            | 2.00 AS | .063 LB/AC | PPI          | 90                           | 67   | 0    | 73   | 73   |
| 45B        | PENDIMETHALIN          | 4.00 E  | .750 LB/AC | PPI          |                              |      |      |      |      |

LSD (05): NS NS NS 15 15

LOCATION: PRINCETON

FERTILIZATION (LB/AC):

DATE PLANTED: MAY 19

VARIETY: ESSEX

SOIL TYPE: CRIDER SILT LOAM

0 N, 60 P, 60 K PH: 6.5 O.M.: 2.0%

DATE TREATED: PPI MAY 19

PRE MAY 19

EP JUNE 4

MP JUNE 11

LP JUNE 18



DEPARTMENT OF AGRONOMY, UNIVERSITY OF KENTUCKY, 1987

TABLE T7018 BURLEY TOBACCO

| TRT NO. | HERBICIDE TREATMENT | FORMULA | RATE            | APPL METH | -----4 WEEKS AFTER APPLIED----- |      |      |      |      |      |      |      |      |      |
|---------|---------------------|---------|-----------------|-----------|---------------------------------|------|------|------|------|------|------|------|------|------|
|         |                     |         |                 |           | GRAS                            | BRLE | CRIN | GIFT | COLQ | CLMW | ILMG | RRPW | VELE | CAWE |
| 1       | BENEFIN             | 1.50 E  | 1.500 LB/AC PPI |           | 85                              | 40   | 0    | 85   | 75   | 78   | 92   | 90   | 42   | 88   |
| 2       | DIPHENAMID          | 90.00 W | 6.000 LB/AC PPI |           | 65                              | 55   | 0    | 65   | 65   | 70   | 90   | 75   | 68   | 78   |
| 3       | PENDIMETHALIN       | 4.00 E  | 1.500 LB/AC PPI |           | 90                              | 45   | 0    | 90   | 82   | 75   | 85   | 90   | 45   | 90   |
| 4       | PEBULATE            | 6.00 E  | 4.000 LB/AC PPI |           | 82                              | 45   | 0    | 82   | 48   | 80   | 85   | 80   | 75   | 80   |
| 5       | FMC 57020           | 4.00 EC | 1.000 LB/AC PPI |           | 92                              | 32   | 0    | 92   | 90   | 58   | 90   | 75   | 92   | 40   |
| 6       | NAPROPAMIDE         | 4.00 F  | 1.000 LB/AC PPI |           | 50                              | 48   | 0    | 50   | 72   | 72   | 92   | 80   | 28   | 80   |
| 7A      | SETHOXYDIM          | 1.53 EC | .200 LB/AC POT  |           | 68                              | 45   | 0    | 68   | 58   | 78   | 82   | 55   | 22   | 75   |
| 7B      | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC POT |           |                                 |      |      |      |      |      |      |      |      |      |
| 8A      | SETHOXYDIM          | 1.53 EC | .300 LB/AC POT  |           | 78                              | 35   | 0    | 78   | 48   | 88   | 90   | 65   | 40   | 72   |
| 8B      | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC POT |           |                                 |      |      |      |      |      |      |      |      |      |
| 9A      | SETHOXYDIM          | 1.53 EC | .500 LB/AC POT  |           | 68                              | 48   | 0    | 68   | 50   | 65   | 98   | 60   | 55   | 72   |
| 9B      | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC POT |           |                                 |      |      |      |      |      |      |      |      |      |
| 10A     | SETHOXYDIM          | 1.53 EC | .300 LB/AC POT  |           | 93                              | 63   | 0    | 93   | 70   | 77   | 83   | 67   | 53   | 73   |
| 10B     | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC POT |           |                                 |      |      |      |      |      |      |      |      |      |
| 10C     | SETHOXYDIM          | 1.53 EC | .300 LB/AC POD  |           |                                 |      |      |      |      |      |      |      |      |      |
| 10D     | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC POD |           |                                 |      |      |      |      |      |      |      |      |      |
| 11A     | SETHOXYDIM          | 1.53 EC | .200 LB/AC POT  |           | 65                              | 58   | 0    | 65   | 68   | 72   | 92   | 65   | 30   | 72   |
| 11B     | BCH 815             | .00 AD  | 2.000 QT/AC POT |           |                                 |      |      |      |      |      |      |      |      |      |
| 12      | SETHOXYDIM          | 1.53 EC | .500 LB/AC POT  |           | 75                              | 50   | 0    | 75   | 52   | 70   | 92   | 62   | 38   | 70   |
| 13      | OIL CONCENTRATE     | .00 AD  | 1.000 QT/AC POT |           | 42                              | 50   | 0    | 42   | 68   | 70   | 90   | 62   | 40   | 75   |
| 14      | CHECK (CULTIVATED)  | .00 CK  | .000            |           | 100                             | 100  | 0    | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
|         |                     |         | LSD (05):       |           | 16                              | 24   | 0    | 16   | 14   | NS   | NS   | 19   | 36   | 13   |

LOCATION: SPINDLETOP FARM SOIL TYPE: MAURY SILT LOAM  
 FERTILIZATION (LB/AC): 250 N, 60 P, 60 K PH: 6.2 O.M.: 2.7%  
 DATE PLANTED: JUNE 1 DATE TREATED: PPI JUNE 1  
 VARIETY: BURLEY TOBACCO PRE JUNE 1  
 POT JUNE 1  
 POD JUNE 22