

## SOIL INFORMATION

TEXTURE: LS  
 PH: 6.5  
 %OM: 1.0  
 PREV.CROP: GLXMA - SOYBEAN  
 %RESIDUE: 0  
 PLOT WIDTH: 10 X 25 FEET  
 PLOT AREA: 250 FEET

## TRIAL INFORMATION

DESIGN: RCB  
 REPS: 3

| APPL. NUMBER         | 01                     | 02                     | UNIT |
|----------------------|------------------------|------------------------|------|
| TIMINGS              | 09                     | 12                     |      |
| TYPE                 | LIQ MIX                | LIQ MIX                |      |
| APPLICATION DATE     | 05/22/14               | 06/13/14               | AME  |
| AIR TEMPERATURE      | 73                     | 67                     | F    |
| % REL. HUMIDITY      | 39                     | 28                     |      |
| WIND DIRECTION       | NORTHWEST              | NA/NONE/U              |      |
| WIND SPEED           | 7.0                    | 0.0                    | M/H  |
| CLOUD COVER          | CLOUDY                 | PARTCLDY               |      |
| DEW                  | NO                     | NO                     |      |
| SOIL MOISTURE        | DRY/MOIST              | DRY/MOIST              |      |
| SOIL CONDITION       | ---                    | ---                    |      |
| METHOD               | SPRAY                  | SPRAY                  |      |
| EQUIPMENT            | BACKPACK/              | BACKPACK/              |      |
| PROPELLANT           | COMPRESSE              | COMPRESSE              |      |
| PLACEMENT            | BROADCAST              | BROADCAST              |      |
| NOZZLE               | FLATFAN                | FLATFAN                |      |
| NOZZLE DESCRIPTION   |                        |                        |      |
| NOZZLE NUMBER        | 6                      | 6                      |      |
| NOZZLE SPACING       | 20.000                 | 20.000                 | IN   |
| SCREEN SIZE          |                        |                        |      |
| SCREEN SZ DESC       | NA                     | NA                     |      |
| SWATH WIDTH          | 10.0                   | 10.0                   | FT   |
| SPRAY VOLUME         | 20.00                  | 20.00                  |      |
| SPRAY VOLUME UNIT    | GPA                    | GPA                    |      |
| PRESSURE             | 32.00                  | 32.00                  | PSI  |
| DILUENT              | WATER                  | WATER                  |      |
| INC. DATE            |                        |                        | AME  |
| INC. START           |                        |                        | 24H  |
| INC. END             |                        |                        | 24H  |
| INC. DEPTH           |                        |                        | IN   |
| INC. EQUIPMENT       | ---                    | ---                    |      |
| FOLIAGE HEIGHT       |                        |                        | FT   |
| FOLIAGE WIDTH        |                        |                        | FT   |
| ROW WIDTH            |                        |                        | FT   |
| SPRAY VOL LWA/TRV    |                        |                        |      |
| S VOL LWA/TRV UNIT   |                        |                        |      |
| LEAF WALL AREA       |                        |                        | M2H  |
| TREE ROW VOLUME      |                        |                        | M3H  |
| SPECIE AND STAGE     | DEN / STG<br>MIN / MAX | DEN / STG<br>MIN / MAX |      |
| CROP *               |                        |                        |      |
| P, CORN, DENT        |                        | ---/14                 |      |
| DKC63-33RRL          |                        | 6.00/8.00              | IN   |
| (PLANTED) 05/22/2014 |                        | 22 DAP                 |      |
| PEST *               |                        |                        |      |
| P, AMARANTH, PALMER  |                        | ---/19                 |      |
|                      |                        | 2.00/10.0              | IN   |

## \* TIMING CODES

09 = ----- / PREEMERGENCE  
 12 = ----- / POST

## \* STAGE CODE

14 = 4 LEAVES UNFOLDED  
 19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

**TITLE:** Overlapping Residual Programs for Palmer Amaranth Control in Corn. Kank. site  
**CREATED:** 04/24/2014 **REVISED:** 09/04/2014 **COMPLETED:** N  
**PROJECT TYPE:** HERBICIDE  
**LOCATION:** Kankakee **RESEARCHED BY:**  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 10.00 FT WIDE X 25.00 FT LONG  
**PLOT AREA:** 250.00 SFT

REPS: 03

| TRT  | TREATMENT        | DOSAGE |         | ZEAMD    | AMAPA    | ZEAMD    | AMAPA    | ZEAMD    | AMAPA    |
|------|------------------|--------|---------|----------|----------|----------|----------|----------|----------|
| NUM  | COMPONENT        | RATE   | UNIT TM | CON %    | CON %    | CON %    | CON %    | CON %    | CON %    |
|      |                  |        |         | 06/05/14 | 06/05/14 | 06/17/14 | 06/17/14 | 06/30/14 | 06/30/14 |
| 1A»  | ZIDUA 85WG       | 0.106  | LAA 9   | 0        | 74       | 2        | 95       | 0        | 87       |
|      | B»SHARPEN 2.85L  | 0.045  | LAA 9   |          |          |          |          |          |          |
|      | C»RNDUP POWERMAX | 1.125  | LAA 12  |          |          |          |          |          |          |
|      | D»ARMEZON 2.8SC  | 0.011  | LAA 12  |          |          |          |          |          |          |
|      | E ATRAZINE DF    | 0.50   | LAA 12  |          |          |          |          |          |          |
|      | F OUTLOOK 6EC    | 0.56   | LAA 12  |          |          |          |          |          |          |
|      | G»ACTIVATOR 90   | 0.25   | PMV 12  |          |          |          |          |          |          |
|      | H»LIQUID AMS     | 2.50   | PMV 12  |          |          |          |          |          |          |
| 2A»  | VERDICT 5.57L    | 0.61   | LAA 9   | 1        | 81       | 1        | 94       | 0        | 86       |
|      | B»RNDUP POWERMAX | 1.125  | LAA 12  |          |          |          |          |          |          |
|      | C»ARMEZON 2.8SC  | 0.011  | LAA 12  |          |          |          |          |          |          |
|      | D ATRAZINE DF    | 0.50   | LAA 12  |          |          |          |          |          |          |
|      | E OUTLOOK 6EC    | 0.56   | LAA 12  |          |          |          |          |          |          |
|      | F»ACTIVATOR 90   | 0.25   | PMV 12  |          |          |          |          |          |          |
|      | G»LIQUID AMS     | 2.50   | PMV 12  |          |          |          |          |          |          |
| 3A»  | VERDICT 5.57L    | 0.78   | LAA 9   | 1        | 91       | 1        | 94       | 0        | 92       |
|      | B»RNDUP POWERMAX | 1.125  | LAA 12  |          |          |          |          |          |          |
|      | C»ZIDUA 85WG     | 0.106  | LAA 12  |          |          |          |          |          |          |
|      | D»STATUS 56DG    | 0.175  | LAA 12  |          |          |          |          |          |          |
|      | E»ACTIVATOR 90   | 0.25   | PMV 12  |          |          |          |          |          |          |
|      | F»LIQUID AMS     | 2.50   | PMV 12  |          |          |          |          |          |          |
| 4A»  | VERDICT 5.57L    | 0.78   | LAA 9   | 1        | 90       | 3        | 87       | 0        | 81       |
|      | B»RNDUP POWERMAX | 1.125  | LAA 12  |          |          |          |          |          |          |
|      | C PROWL H2O 3.8  | 0.95   | LAA 12  |          |          |          |          |          |          |
|      | D»STATUS 56DG    | 0.175  | LAA 12  |          |          |          |          |          |          |
|      | E»ACTIVATOR 90   | 0.25   | PMV 12  |          |          |          |          |          |          |
|      | F»LIQUID AMS     | 2.50   | PMV 12  |          |          |          |          |          |          |
| 5A»  | ZIDUA 85WG       | 0.106  | LAA 9   | 2        | 88       | 2        | 88       | 0        | 80       |
|      | B»SHARPEN 2.85L  | 0.045  | LAA 9   |          |          |          |          |          |          |
|      | C ATRAZINE DF    | 1.00   | LAA 9   |          |          |          |          |          |          |
|      | D»RNDUP POWERMAX | 1.125  | LAA 12  |          |          |          |          |          |          |
|      | E»STATUS 56DG    | 0.175  | LAA 12  |          |          |          |          |          |          |
|      | F»ACTIVATOR 90   | 0.25   | PMV 12  |          |          |          |          |          |          |
|      | G»LIQUID AMS     | 2.50   | PMV 12  |          |          |          |          |          |          |
| 6A»  | VERDICT 5.57L    | 0.78   | LAA 9   | 1        | 86       | 1        | 87       | 0        | 76       |
|      | B»RNDUP POWERMAX | 1.125  | LAA 12  |          |          |          |          |          |          |
|      | C»LIQUID AMS     | 2.50   | PMV 12  |          |          |          |          |          |          |
| 7A»  | ANTHEM ATZ 4.5   | 1.26   | LAA 9   | 1        | 85       | 0        | 89       | 0        | 78       |
|      | B»RNDUP POWERMAX | 1.125  | LAA 12  |          |          |          |          |          |          |
|      | C»LIQUID AMS     | 2.50   | PMV 12  |          |          |          |          |          |          |
| 8A»  | LUMAX EZ 3.67S   | 1.38   | LAA 9   | 1        | 89       | 1        | 94       | 0        | 89       |
|      | B»HALEX GT 4.38L | 1.97   | LAA 12  |          |          |          |          |          |          |
|      | C»ACTIVATOR 90   | 0.25   | PMV 12  |          |          |          |          |          |          |
|      | D»LIQUID AMS     | 2.50   | PMV 12  |          |          |          |          |          |          |
| 9A»  | SURESTART II 4   | 1.30   | LAA 9   | 0        | 88       | 0        | 92       | 0        | 72       |
|      | B»RNDUP POWERMAX | 1.125  | LAA 12  |          |          |          |          |          |          |
|      | C»LIQUID AMS     | 2.50   | PMV 12  |          |          |          |          |          |          |
| 10A» | CORVUS 1.79L     | 0.091  | LAA 9   | 1        | 96       | 1        | 97       | 0        | 84       |
|      | B ATRAZINE DF    | 1.00   | LAA 9   |          |          |          |          |          |          |
|      | C»RNDUP POWERMAX | 1.125  | LAA 12  |          |          |          |          |          |          |
|      | D»LAUDIS 3.5SC   | 0.082  | LAA 12  |          |          |          |          |          |          |
|      | E ATRAZINE DF    | 0.50   | LAA 12  |          |          |          |          |          |          |
|      | F»COC            | 1.00   | PMV 12  |          |          |          |          |          |          |
|      | G»LIQUID AMS     | 2.50   | PMV 12  |          |          |          |          |          |          |
| 11A  | CHECK            | 0.00   | NA 0    | 0        | 0        | 0        | 0        | 0        | 0        |

## TITLE: Overlapping Residual Programs for Palmer Amaranth Control in Corn. Kank. site

| TRT                | TREATMENT        | DOSAGE |      |    | ZEAMD    | AMAPA    | ZEAMD    | AMAPA    | ZEAMD    | AMAPA    |
|--------------------|------------------|--------|------|----|----------|----------|----------|----------|----------|----------|
| NUM                | COMPONENT        | RATE   | UNIT | TM | CON %    | CON %    | CON %    | CON %    | CON %    | CON %    |
|                    |                  |        |      |    | 06/05/14 | 06/05/14 | 06/17/14 | 06/17/14 | 06/30/14 | 06/30/14 |
| 12A                | HARNESX XTRA     | 2.80   | LAA  | 9  | 0        | 96       | 1        | 92       | 0        | 87       |
|                    | B»RNDUP POWERMAX | 1.125  | LAA  | 12 |          |          |          |          |          |          |
|                    | C»ARMEZON 2.8SC  | 0.016  | LAA  | 12 |          |          |          |          |          |          |
|                    | D»WARRANT 3L     | 1.125  | LAA  | 12 |          |          |          |          |          |          |
|                    | E»ACTIVATOR 90   | 0.25   | PMV  | 12 |          |          |          |          |          |          |
|                    | F»LIQUID AMS     | 2.50   | PMV  | 12 |          |          |          |          |          |          |
| 13A»               | LEXAR EZ 3.7SC   | 3.24   | LAA  | 9  | 1        | 95       | 0        | 86       | 0        | 53       |
| 14A»               | LEXAR EZ 3.7SC   | 1.62   | LAA  | 9  | 0        | 81       | 0        | 97       | 0        | 92       |
|                    | B»HALEX GT 4.38L | 1.97   | LAA  | 12 |          |          |          |          |          |          |
|                    | C ATRAZINE DF    | 0.50   | LAA  | 12 |          |          |          |          |          |          |
|                    | D»COC            | 1.00   | PMV  | 12 |          |          |          |          |          |          |
|                    | E»LIQUID AMS     | 2.50   | PMV  | 12 |          |          |          |          |          |          |
| 15A»               | LUMAX EZ 3.67S   | 2.98   | LAA  | 9  | 0        | 91       | 0        | 82       | 0        | 67       |
|                    | B ATRAZINE DF    | 0.50   | LAA  | 9  |          |          |          |          |          |          |
| 16A»               | LUMAX EZ 3.67S   | 1.38   | LAA  | 9  | 0        | 85       | 0        | 98       | 0        | 95       |
|                    | B»HALEX GT 4.38L | 1.97   | LAA  | 12 |          |          |          |          |          |          |
|                    | C ATRAZINE DF    | 0.50   | LAA  | 12 |          |          |          |          |          |          |
|                    | D»COC            | 1.00   | PMV  | 12 |          |          |          |          |          |          |
|                    | E»LIQUID AMS     | 2.50   | PMV  | 12 |          |          |          |          |          |          |
| LSD (0.05)         |                  |        |      |    | 0.92     | 11.78    | 1.07     | 3.87     | 0.00     | 5.18     |
| STANDARD DEVIATION |                  |        |      |    | 0.45     | 5.77     | 0.523    | 1.89     | 0.00     | 2.54     |

**TITLE:** Overlapping Residual Programs for Palmer Amaranth Control in Corn. Kank. site  
**CREATED:** 04/24/2014 **REVISED:** 09/04/2014 **COMPLETED:** N  
**PROJECT TYPE:** HERBICIDE  
**LOCATION:** Kankakee **RESEARCHED BY:**  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 10.00 FT WIDE X 25.00 FT LONG  
**PLOT AREA:** 250.00 SFT

REPS: 03

| TRT  | TREATMENT        | DOSAGE | ZEAMD  | AMAPA    |
|------|------------------|--------|--------|----------|
| NUM  | COMPONENT        | RATE   | CON %  | CON %    |
|      |                  | UNIT   | TM     | 07/28/14 |
|      |                  |        |        | 07/28/14 |
| 1A»  | ZIDUA 85WG       | 0.106  | LAA 9  | 0        |
|      | B»SHARPEN 2.85L  | 0.045  | LAA 9  | 82       |
|      | C»RNDUP POWERMAX | 1.125  | LAA 12 |          |
|      | D»ARMEZON 2.8SC  | 0.011  | LAA 12 |          |
|      | E ATRAZINE DF    | 0.50   | LAA 12 |          |
|      | F OUTLOOK 6EC    | 0.56   | LAA 12 |          |
|      | G»ACTIVATOR 90   | 0.25   | PMV 12 |          |
|      | H»LIQUID AMS     | 2.50   | PMV 12 |          |
| 2A»  | VERDICT 5.57L    | 0.61   | LAA 9  | 0        |
|      | B»RNDUP POWERMAX | 1.125  | LAA 12 | 81       |
|      | C»ARMEZON 2.8SC  | 0.011  | LAA 12 |          |
|      | D ATRAZINE DF    | 0.50   | LAA 12 |          |
|      | E OUTLOOK 6EC    | 0.56   | LAA 12 |          |
|      | F»ACTIVATOR 90   | 0.25   | PMV 12 |          |
|      | G»LIQUID AMS     | 2.50   | PMV 12 |          |
| 3A»  | VERDICT 5.57L    | 0.78   | LAA 9  | 0        |
|      | B»RNDUP POWERMAX | 1.125  | LAA 12 | 85       |
|      | C»ZIDUA 85WG     | 0.106  | LAA 12 |          |
|      | D»STATUS 56DG    | 0.175  | LAA 12 |          |
|      | E»ACTIVATOR 90   | 0.25   | PMV 12 |          |
|      | F»LIQUID AMS     | 2.50   | PMV 12 |          |
| 4A»  | VERDICT 5.57L    | 0.78   | LAA 9  | 0        |
|      | B»RNDUP POWERMAX | 1.125  | LAA 12 | 62       |
|      | C PROWL H2O 3.8  | 0.95   | LAA 12 |          |
|      | D»STATUS 56DG    | 0.175  | LAA 12 |          |
|      | E»ACTIVATOR 90   | 0.25   | PMV 12 |          |
|      | F»LIQUID AMS     | 2.50   | PMV 12 |          |
| 5A»  | ZIDUA 85WG       | 0.106  | LAA 9  | 0        |
|      | B»SHARPEN 2.85L  | 0.045  | LAA 9  | 73       |
|      | C ATRAZINE DF    | 1.00   | LAA 9  |          |
|      | D»RNDUP POWERMAX | 1.125  | LAA 12 |          |
|      | E»STATUS 56DG    | 0.175  | LAA 12 |          |
|      | F»ACTIVATOR 90   | 0.25   | PMV 12 |          |
|      | G»LIQUID AMS     | 2.50   | PMV 12 |          |
| 6A»  | VERDICT 5.57L    | 0.78   | LAA 9  | 0        |
|      | B»RNDUP POWERMAX | 1.125  | LAA 12 | 57       |
|      | C»LIQUID AMS     | 2.50   | PMV 12 |          |
| 7A»  | ANTHEM ATZ 4.5   | 1.26   | LAA 9  | 0        |
|      | B»RNDUP POWERMAX | 1.125  | LAA 12 | 75       |
|      | C»LIQUID AMS     | 2.50   | PMV 12 |          |
| 8A»  | LUMAX EZ 3.67S   | 1.38   | LAA 9  | 0        |
|      | B»HALEX GT 4.38L | 1.97   | LAA 12 | 92       |
|      | C»ACTIVATOR 90   | 0.25   | PMV 12 |          |
|      | D»LIQUID AMS     | 2.50   | PMV 12 |          |
| 9A»  | SURESTART II 4   | 1.30   | LAA 9  | 0        |
|      | B»RNDUP POWERMAX | 1.125  | LAA 12 | 60       |
|      | C»LIQUID AMS     | 2.50   | PMV 12 |          |
| 10A» | CORVUS 1.79L     | 0.091  | LAA 9  | 0        |
|      | B ATRAZINE DF    | 1.00   | LAA 9  | 87       |
|      | C»RNDUP POWERMAX | 1.125  | LAA 12 |          |
|      | D»LAUDIS 3.5SC   | 0.082  | LAA 12 |          |
|      | E ATRAZINE DF    | 0.50   | LAA 12 |          |
|      | F»COC            | 1.00   | PMV 12 |          |
|      | G»LIQUID AMS     | 2.50   | PMV 12 |          |
| 11A  | CHECK            | 0.00   | NA 0   | 0        |

**TITLE:** Overlapping Residual Programs for Palmer Amaranth Control in Corn. Kank. site

| TRT<br>NUM         | TREATMENT<br>COMPONENT | DOSAGE<br>RATE | UNIT | TM | ZEAMD<br>CON %<br>07/28/14 | AMAPA<br>CON %<br>07/28/14 |
|--------------------|------------------------|----------------|------|----|----------------------------|----------------------------|
| 12A                | HARNESS XTRA           | 2.80           | LAA  | 9  | 0                          | 95                         |
|                    | B»RNDUP POWERMAX       | 1.125          | LAA  | 12 |                            |                            |
|                    | C»ARMEZON 2.8SC        | 0.016          | LAA  | 12 |                            |                            |
|                    | D»WARRANT 3L           | 1.125          | LAA  | 12 |                            |                            |
|                    | E»ACTIVATOR 90         | 0.25           | PMV  | 12 |                            |                            |
|                    | F»LIQUID AMS           | 2.50           | PMV  | 12 |                            |                            |
| 13A»               | LEXAR EZ 3.7SC         | 3.24           | LAA  | 9  | 0                          | 53                         |
| 14A»               | LEXAR EZ 3.7SC         | 1.62           | LAA  | 9  | 0                          | 96                         |
|                    | B»HALEX GT 4.38L       | 1.97           | LAA  | 12 |                            |                            |
|                    | C ATRAZINE DF          | 0.50           | LAA  | 12 |                            |                            |
|                    | D»COC                  | 1.00           | PMV  | 12 |                            |                            |
|                    | E»LIQUID AMS           | 2.50           | PMV  | 12 |                            |                            |
| 15A»               | LUMAX EZ 3.67S         | 2.98           | LAA  | 9  | 0                          | 53                         |
|                    | B ATRAZINE DF          | 0.50           | LAA  | 9  |                            |                            |
| 16A»               | LUMAX EZ 3.67S         | 1.38           | LAA  | 9  | 0                          | 96                         |
|                    | B»HALEX GT 4.38L       | 1.97           | LAA  | 12 |                            |                            |
|                    | C ATRAZINE DF          | 0.50           | LAA  | 12 |                            |                            |
|                    | D»COC                  | 1.00           | PMV  | 12 |                            |                            |
|                    | E»LIQUID AMS           | 2.50           | PMV  | 12 |                            |                            |
| LSD (0.05)         |                        |                |      |    | 0.00                       | 9.60                       |
| STANDARD DEVIATION |                        |                |      |    | 0.00                       | 4.70                       |

» = SUPPLEMENTAL CHEMICAL

## \* TIMING CODES

00 = ----- / UNTREATED TIMING

09 = ----- / PREEMERGENCE 05/22/2014(1)

12 = ----- / POST 06/13/2014(2)

| H#  | CUSTOM#1 | CUSTOM#2 | EV. DATE   | S# | TYP | SPECIE | STAGE | RAW | PRT | SYM | MTH | CNF | BASIS   | C.M | CTRT | SS | NOTE |
|-----|----------|----------|------------|----|-----|--------|-------|-----|-----|-----|-----|-----|---------|-----|------|----|------|
| 001 | ZEAMD    | CON %    | 06/05/2014 | 01 | P   | ZEAMD  |       | RAW | ALL | CON | %   | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 002 | AMAPA    | CON %    | 06/05/2014 | 02 | P   | AMAPA  |       | RAW | ALL | CON | %   | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 003 | ZEAMD    | CON %    | 06/17/2014 | 01 | P   | ZEAMD  |       | RAW | ALL | CON | %   | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 004 | AMAPA    | CON %    | 06/17/2014 | 02 | P   | AMAPA  |       | RAW | ALL | CON | %   | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 005 | ZEAMD    | CON %    | 06/30/2014 | 01 | P   | ZEAMD  |       | RAW | ALL | CON | %   | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 006 | AMAPA    | CON %    | 06/30/2014 | 02 | P   | AMAPA  |       | RAW | ALL | CON | %   | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 007 | ZEAMD    | CON %    | 07/28/2014 | 01 | P   | ZEAMD  |       | RAW | ALL | CON | %   | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 008 | AMAPA    | CON %    | 07/28/2014 | 02 | P   | AMAPA  |       | RAW | ALL | CON | %   | --- | 1.00 PL | NO  | 0001 | 0  | N    |

## \* SPECIES COMMON NAME - VARIETY/SPECIE INFO (IF APPLICABLE)

01 = DKC63-33RRL