

SOIL INFORMATION

TRIAL 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

DESIGN: RCB
 REPS: 3

| APPL. NUMBER | 01 | 02 | 03 | 04 | UNIT |
|----------------------|------------------------|------------------------|------------------------|------------------------|------|
| TIMINGS | 09 | 11 | 12 | 13 | |
| TYPE | LIQMIX | LIQMIX | LIQMIX | LIQMIX | |
| APPLICATION DATE | 05/22/14 | 06/09/14 | 06/13/14 | 06/26/14 | AME |
| AIR TEMPERATURE | 73 | 83 | 67 | 86 | F |
| % REL.HUMIDITY | 39 | 53 | 28 | 73 | |
| WIND DIRECTION | NORTHWEST | EAST | NA/NONE/U | NA/NONE/U | |
| WIND SPEED | 7.0 | 4.0 | 0.0 | 0.0 | M/H |
| CLOUD COVER | CLOUDY | PARTCLDY | CLEAR | PARTCLDY | |
| DEW | NO | NO | NO | NO | |
| SOIL MOISTURE | DRY/MOIST | MOIST/MOI | DRY/MOIST | DRY/MOIST | |
| SOIL CONDITION | --- | --- | --- | --- | |
| METHOD | SPRAY | SPRAY | SPRAY | SPRAY | |
| EQUIPMENT | BACKPACK/ | BACKPACK/ | BACKPACK/ | BACKPACK/ | |
| PROPELLANT | COMPRESSE | COMPRESSE | COMPRESSE | COMPRESSE | |
| PLACEMENT | BROADCAST | BROADCAST | BROADCAST | BROADCAST | |
| NOZZLE | FLATFAN | FLATFAN | FLATFAN | FLATFAN | |
| NOZZLE DESCRIPTION | | | | | |
| NOZZLE NUMBER | 6 | 6 | 6 | 6 | |
| NOZZLE SPACING | 20.000 | 20.000 | 20.000 | 20.000 | IN |
| SCREEN SIZE | | | | | |
| SCREEN SZ DESC | NA | NA | NA | NA | |
| SWATH WIDTH | 10.0 | 10.0 | 10.0 | 10.0 | FT |
| SPRAY VOLUME | 20.00 | 20.00 | 20.00 | 20.00 | |
| SPRAY VOLUME UNIT | GPA | GPA | GPA | GPA | |
| PRESSURE | 32.00 | 32.00 | 32.00 | 32.00 | PSI |
| DILUENT | WATER | WATER | WATER | WATER | |
| INC. DATE | | | | | AME |
| INC. START | | | | | 24H |
| INC. END | | | | | 24H |
| INC. DEPTH | | | | | IN |
| INC. EQUIPMENT | --- | --- | --- | --- | |
| 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 MIN / MAX | DEN / STG MIN / MAX | DEN / STG MIN / MAX | DEN / STG MIN / MAX | |
| CROP * | | | | | |
| P, SOYBEAN | | ---/13 | ---/14 | ---/16 | |
| CZ2810LL CREDEZ | | 5.00/5.00 | 6.00/6.00 | 10.0/10.0 | IN |
| (PLANTED) 05/22/2014 | | 18 DAP | 22 DAP | 35 DAP | |
| PEST * | | | | | |
| P, AMARANTH, PALMER | | ---/19 | ---/19 | ---/19 | |
| | | 1.00/6.00 | 1.00/8.00 | 1.00/12.0 | IN |

* TIMING CODES

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

* STAGE CODE

13 = 3RD LEAF (1ST TRIFOLIATE LEAF) UNFOLDED, 2 NODES
 14 = 4TH LEAF (2ND TRIFOLIATE LEAF) UNFOLDED, 3 NODES
 16 = 6TH LEAF (4TH TRIFOLIATE LEAF) UNFOLDED, 5 NODES
 19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

TITLE: Liberty-Link Soybean Herbicide Systems to Control Palmer Amaranth. Kank.

CREATED: 04/26/2014 REVISED: 09/05/2014

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 NUM | TREATMENT COMPONENT | DOSAGE | | | GLXMA | AMAPA | GLXMA | AMAPA | GLXMA | AMAPA |
|------------|------------------------|--------|------|----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | RATE | UNIT | TM | CON % 06/05/14 | CON % 06/05/14 | CON % 06/17/14 | CON % 06/17/14 | CON % 06/30/14 | CON % 06/30/14 |
| 1A | CHECK | 0.00 | NA | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2A | AUTHOR. FIRST | 0.28 | LAA | 9 | 11 | 90 | 25 | 93 | 23 | 96 |
| | B>LIBERTY 2.34L | 0.53 | LAA | 12 | | | | | | |
| | C>LIQUID AMS | 2.50 | PMV | 12 | | | | | | |
| | D>LIBERTY 2.34L | 0.53 | LAA | 13 | | | | | | |
| | E>LIQUID AMS | 2.50 | PMV | 13 | | | | | | |
| 3A | FIERCE 76WG | 0.166 | LAA | 9 | 3 | 82 | 6 | 80 | 1 | 97 |
| | B>LIBERTY 2.34L | 0.53 | LAA | 12 | | | | | | |
| | C>LIQUID AMS | 2.50 | PMV | 12 | | | | | | |
| | D>LIBERTY 2.34L | 0.53 | LAA | 13 | | | | | | |
| | E>LIQUID AMS | 2.50 | PMV | 13 | | | | | | |
| 4A | VALOR XLT 40WG | 0.088 | LAA | 0 | 4 | 82 | 8 | 96 | 5 | 96 |
| | B VALOR 51WG | 0.065 | LAA | 9 | | | | | | |
| | C CLASSIC 25WG | 0.023 | LAA | 9 | | | | | | |
| | D>LIBERTY 2.34L | 0.53 | LAA | 11 | | | | | | |
| | E>ZIDUA 85WG | 0.106 | LAA | 11 | | | | | | |
| | F>LIQUID AMS | 2.50 | PMV | 11 | | | | | | |
| | G>LIBERTY 2.34L | 0.53 | LAA | 13 | | | | | | |
| | H>LIQUID AMS | 2.50 | PMV | 13 | | | | | | |
| 5A | LIBERTY 2.34L | 0.53 | LAA | 11 | C | C | 17 | 93 | 2 | 89 |
| | B>PREFIX 5.32SL | 1.33 | LAA | 11 | | | | | | |
| | C>LIQUID AMS | 2.50 | PMV | 11 | | | | | | |
| | D>LIBERTY 2.34L | 0.53 | LAA | 12 | | | | | | |
| | E>WARRANT 3L | 1.125 | LAA | 12 | | | | | | |
| | F>LIQUID AMS | 2.50 | PMV | 12 | | | | | | |
| 6A | OPTILL PRO | 0.00 | LAA | 0 | 22 | 93 | 23 | 94 | 18 | 98 |
| | B>OPTILL 68WG | 0.085 | LAA | 9 | | | | | | |
| | C OUTLOOK 6EC | 0.47 | LAA | 9 | | | | | | |
| | D>LIBERTY 2.34L | 0.53 | LAA | 12 | | | | | | |
| | E>LIQUID AMS | 2.50 | PMV | 12 | | | | | | |
| | F>LIBERTY 2.34L | 0.53 | LAA | 13 | | | | | | |
| | G>LIQUID AMS | 2.50 | PMV | 13 | | | | | | |
| 7A | ENVIVE 41.3SG | 4.00 | OMA | 0 | 2 | 90 | 3 | 98 | 2 | 98 |
| | B CLASSIC 25WG | 0.024 | LAA | 9 | | | | | | |
| | C>HARMONY GT 50W | 0.007 | LAA | 9 | | | | | | |
| | D VALOR 51WG | 0.073 | LAA | 9 | | | | | | |
| | E>LIBERTY 2.34L | 0.53 | LAA | 11 | | | | | | |
| | F OUTLOOK 6EC | 0.66 | LAA | 11 | | | | | | |
| | G>LIQUID AMS | 2.50 | PMV | 11 | | | | | | |
| | H>LIBERTY 2.34L | 0.53 | LAA | 13 | | | | | | |
| | I>LIQUID AMS | 2.50 | PMV | 13 | | | | | | |
| 8A | LIBERTY 2.34L | 0.53 | LAA | 11 | C | C | 10 | 86 | 3 | 83 |
| | B OUTLOOK 6EC | 0.66 | LAA | 11 | | | | | | |
| | C>LIQUID AMS | 2.50 | PMV | 11 | | | | | | |
| | D>LIBERTY 2.34L | 0.53 | LAA | 12 | | | | | | |
| | E>WARRANT 3L | 1.125 | LAA | 12 | | | | | | |
| | F>LIQUID AMS | 2.50 | PMV | 12 | | | | | | |
| 9A | SP 1171 2L | 0.20 | LAA | 9 | 3 | 53 | 8 | 73 | 5 | 88 |
| | B>LIBERTY 2.34L | 0.53 | LAA | 12 | | | | | | |
| | C>LIQUID AMS | 2.50 | PMV | 12 | | | | | | |
| | D>LIBERTY 2.34L | 0.53 | LAA | 13 | | | | | | |
| | E>LIQUID AMS | 2.50 | PMV | 13 | | | | | | |
| 10A | SP 1171 2L | 0.40 | LAA | 9 | 12 | 75 | 2 | 86 | 0 | 91 |
| | B>LIBERTY 2.34L | 0.53 | LAA | 12 | | | | | | |
| | C>LIQUID AMS | 2.50 | PMV | 12 | | | | | | |
| | D>LIBERTY 2.34L | 0.53 | LAA | 13 | | | | | | |
| | E>LIQUID AMS | 2.50 | PMV | 13 | | | | | | |

TITLE: Liberty-Link Soybean Herbicide Systems to Control Palmer Amaranth. Kank.

| TRT NUM | TREATMENT COMPONENT | DOSAGE | | GLXMA | AMAPA | GLXMA | AMAPA | GLXMA | AMAPA |
|------------|------------------------|--------------------|---------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | RATE | UNIT TM | CON % 06/05/14 | CON % 06/05/14 | CON % 06/17/14 | CON % 06/17/14 | CON % 06/30/14 | CON % 06/30/14 |
| 11A | AUTHOR. MAXX 6 | 0.35 | LAA 9 | 11 | 86 | 20 | 89 | 19 | 94 |
| | B»LIBERTY 2.34L | 0.53 | LAA 12 | | | | | | |
| | C»LIQUID AMS | 2.50 | PMV 12 | | | | | | |
| | D»LIBERTY 2.34L | 0.53 | LAA 13 | | | | | | |
| | E»LIQUID AMS | 2.50 | PMV 13 | | | | | | |
| 12A | MATADOR 4.7L | 1.76 | LAA 9 | 1 | 88 | 3 | 89 | 1 | 97 |
| | B»LIBERTY 2.34L | 0.53 | LAA 12 | | | | | | |
| | C»LIQUID AMS | 2.50 | PMV 12 | | | | | | |
| | D»LIBERTY 2.34L | 0.53 | LAA 13 | | | | | | |
| | E»LIQUID AMS | 2.50 | PMV 13 | | | | | | |
| | | LSD (0.05) | | 4.47 | 14.35 | 10.65 | 6.60 | 10.11 | 8.38 |
| | | STANDARD DEVIATION | | 2.15 | 6.92 | 5.13 | 3.18 | 4.87 | 4.00 |

TITLE: Liberty-Link Soybean Herbicide Systems to Control Palmer Amaranth. Kank.

CREATED: 04/26/2014 REVISED: 09/05/2014

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 NUM | TREATMENT COMPONENT | DOSAGE | | | GLXMA | AMAPA |
|------------|------------------------|--------|------|----|-------------------|-------------------|
| | | RATE | UNIT | TM | CON % 07/21/14 | CON % 07/21/14 |
| 1A | CHECK | 0.00 | NA | 0 | 0 | 0 |
| 2A | AUTHOR. FIRST | 0.28 | LAA | 9 | 13 | 85 |
| | B>LIBERTY 2.34L | 0.53 | LAA | 12 | | |
| | C>LIQUID AMS | 2.50 | PMV | 12 | | |
| | D>LIBERTY 2.34L | 0.53 | LAA | 13 | | |
| | E>LIQUID AMS | 2.50 | PMV | 13 | | |
| 3A | FIERCE 76WG | 0.166 | LAA | 9 | 0 | 99 |
| | B>LIBERTY 2.34L | 0.53 | LAA | 12 | | |
| | C>LIQUID AMS | 2.50 | PMV | 12 | | |
| | D>LIBERTY 2.34L | 0.53 | LAA | 13 | | |
| | E>LIQUID AMS | 2.50 | PMV | 13 | | |
| 4A | VALOR XLT 40WG | 0.088 | LAA | 0 | 3 | 98 |
| | B VALOR 51WG | 0.065 | LAA | 9 | | |
| | C CLASSIC 25WG | 0.023 | LAA | 9 | | |
| | D>LIBERTY 2.34L | 0.53 | LAA | 11 | | |
| | E>ZIDUA 85WG | 0.106 | LAA | 11 | | |
| | F>LIQUID AMS | 2.50 | PMV | 11 | | |
| | G>LIBERTY 2.34L | 0.53 | LAA | 13 | | |
| | H>LIQUID AMS | 2.50 | PMV | 13 | | |
| 5A | LIBERTY 2.34L | 0.53 | LAA | 11 | 0 | 93 |
| | B>PREFIX 5.32SL | 1.33 | LAA | 11 | | |
| | C>LIQUID AMS | 2.50 | PMV | 11 | | |
| | D>LIBERTY 2.34L | 0.53 | LAA | 12 | | |
| | E>WARRANT 3L | 1.125 | LAA | 12 | | |
| | F>LIQUID AMS | 2.50 | PMV | 12 | | |
| 6A | OPTILL PRO | 0.00 | LAA | 0 | 7 | 85 |
| | B>OPTILL 68WG | 0.085 | LAA | 9 | | |
| | C OUTLOOK 6EC | 0.47 | LAA | 9 | | |
| | D>LIBERTY 2.34L | 0.53 | LAA | 12 | | |
| | E>LIQUID AMS | 2.50 | PMV | 12 | | |
| | F>LIBERTY 2.34L | 0.53 | LAA | 13 | | |
| | G>LIQUID AMS | 2.50 | PMV | 13 | | |
| 7A | ENVIVE 41.3SG | 4.00 | OMA | 0 | 0 | 98 |
| | B CLASSIC 25WG | 0.024 | LAA | 9 | | |
| | C>HARMONY GT 50W | 0.007 | LAA | 9 | | |
| | D VALOR 51WG | 0.073 | LAA | 9 | | |
| | E>LIBERTY 2.34L | 0.53 | LAA | 11 | | |
| | F OUTLOOK 6EC | 0.66 | LAA | 11 | | |
| | G>LIQUID AMS | 2.50 | PMV | 11 | | |
| | H>LIBERTY 2.34L | 0.53 | LAA | 13 | | |
| | I>LIQUID AMS | 2.50 | PMV | 13 | | |
| 8A | LIBERTY 2.34L | 0.53 | LAA | 11 | 2 | 89 |
| | B OUTLOOK 6EC | 0.66 | LAA | 11 | | |
| | C>LIQUID AMS | 2.50 | PMV | 11 | | |
| | D>LIBERTY 2.34L | 0.53 | LAA | 12 | | |
| | E>WARRANT 3L | 1.125 | LAA | 12 | | |
| | F>LIQUID AMS | 2.50 | PMV | 12 | | |
| 9A | SP 1171 2L | 0.20 | LAA | 9 | 0 | 89 |
| | B>LIBERTY 2.34L | 0.53 | LAA | 12 | | |
| | C>LIQUID AMS | 2.50 | PMV | 12 | | |
| | D>LIBERTY 2.34L | 0.53 | LAA | 13 | | |
| | E>LIQUID AMS | 2.50 | PMV | 13 | | |
| 10A | SP 1171 2L | 0.40 | LAA | 9 | 0 | 97 |
| | B>LIBERTY 2.34L | 0.53 | LAA | 12 | | |
| | C>LIQUID AMS | 2.50 | PMV | 12 | | |
| | D>LIBERTY 2.34L | 0.53 | LAA | 13 | | |
| | E>LIQUID AMS | 2.50 | PMV | 13 | | |

TITLE: Liberty-Link Soybean Herbicide Systems to Control Palmer Amaranth. Kank.

| TRT NUM | TREATMENT COMPONENT | DOSAGE | | GLXMA | AMAPA |
|--------------------|------------------------|--------|---------|-------------------|-------------------|
| | | RATE | UNIT TM | CON % 07/21/14 | CON % 07/21/14 |
| 11A» | AUTHOR. MAXX 6 | 0.35 | LAA 9 | 12 | 88 |
| | B»LIBERTY 2.34L | 0.53 | LAA 12 | | |
| | C»LIQUID AMS | 2.50 | PMV 12 | | |
| | D»LIBERTY 2.34L | 0.53 | LAA 13 | | |
| | E»LIQUID AMS | 2.50 | PMV 13 | | |
| 12A» | MATADOR 4.7L | 1.76 | LAA 9 | 0 | 99 |
| | B»LIBERTY 2.34L | 0.53 | LAA 12 | | |
| | C»LIQUID AMS | 2.50 | PMV 12 | | |
| | D»LIBERTY 2.34L | 0.53 | LAA 13 | | |
| | E»LIQUID AMS | 2.50 | PMV 13 | | |
| LSD (0.05) | | | | 6.37 | 11.18 |
| STANDARD DEVIATION | | | | 3.07 | 5.39 |

» = SUPPLEMENTAL CHEMICAL

---,M,C,D = MISSING DATA

* TIMING CODES

- 00 = ----- / UNTREATED TIMING
- 09 = ----- / PREEMERGENCE 05/22/2014(1)
- 11 = ----- / EPOST 06/09/2014(2)
- 12 = ----- / POST 06/13/2014(3)
- 13 = ----- / LPOST 06/26/2014(4)

| H# | CUSTOM#1 | CUSTOM#2 | EV.DATE | S# | TYP | SPECIE | STAGE | RAW | PRT | SYM | MTH | CNF | BASIS | C.M | CTRT | SS | NOTE |
|-----|----------|----------|------------|----|-----|--------|-------|-----|-----|-----|-----|-----|---------|-----|------|----|------|
| 001 | GLXMA | CON % | 06/05/2014 | 01 | P | GLXMA | | 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 | GLXMA | CON % | 06/17/2014 | 01 | P | GLXMA | | 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 | GLXMA | CON % | 06/30/2014 | 01 | P | GLXMA | | 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 | GLXMA | CON % | 07/21/2014 | 01 | P | GLXMA | | RAW | ALL | CON | % | --- | 1.00 PL | NO | 0001 | 0 | N |
| 008 | AMAPA | CON % | 07/21/2014 | 02 | P | AMAPA | | RAW | ALL | CON | % | --- | 1.00 PL | NO | 0001 | 0 | N |

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

01 = CZ2810LL CREDENZ