

## SOIL INFORMATION

## TRIAL INFORMATION

TEXTURE: SIL  
PH: 6.6  
%OM: 4.7  
PREV.CROP: ZEAMD - dent corn  
%RESIDUE: 0  
PLOT WIDTH: 7.5 X 30 FEET  
PLOT AREA: 225 FEET

DESIGN: RCB  
REPS: 3

| APPL. NUMBER                                                   | 01                     | 02                            | 03                            | UNIT |
|----------------------------------------------------------------|------------------------|-------------------------------|-------------------------------|------|
| TIMINGS                                                        | 09                     | 11                            | 12                            |      |
| TYPE                                                           | LIQUID MI              | LIQUID MI                     | LIQUID MI                     |      |
| APPLICATION DATE                                               | 05/20/16               | 06/13/16                      | 06/18/16                      | AME  |
| TIME - BEGIN                                                   | 08:15                  | 11:00                         | 08:20                         | 24H  |
| TIME - END                                                     | 08:45                  | 11:10                         | 08:45                         | 24H  |
| AIR TEMPERATURE                                                | 62                     | 83                            | 72                            | F    |
| % REL.HUMIDITY                                                 | 50                     | 40                            | 88                            |      |
| WIND DIRECTION                                                 | EAST                   | SOUTHEAST                     | NORTH                         |      |
| WIND SPEED                                                     | 6.0                    | 6.0                           | 6.0                           | M/H  |
| CLOUD COVER                                                    | OVERCAST-              | CLEAR-0%                      | PAR.CLOUD                     |      |
| DEW                                                            | TO BE SEL              | NO                            | NO                            |      |
| SOIL MOISTURE                                                  | DRY/MOIST              | DRY/MOIST                     | DRY/MOIST                     |      |
| SOIL CONDITION                                                 | TO BE SEL              | TO BE SEL                     | TO BE SEL                     |      |
| SOIL TEMP/DEPTH                                                | 60/4.00                | 83/4.00                       | 76/4.00                       | F/IN |
| METHOD                                                         | SPRAY                  | SPRAY                         | SPRAY                         |      |
| EQUIPMENT                                                      | BACKPACK/              | BACKPACK/                     | BACKPACK/                     |      |
| PROPELLANT                                                     | COMPRESSE              | COMPRESSE                     | COMPRESSE                     |      |
| PLACEMENT                                                      | BROADCAST              | BROADCAST                     | BROADCAST                     |      |
| NOZZLE                                                         | FLATFAN                | FLATFAN                       | FLATFAN                       |      |
| NOZZLE DESCRIPTION                                             |                        |                               |                               |      |
| NOZZLE VOLUME                                                  | 0.00                   | 0.00                          | 0.00                          | GPM  |
| NOZZLE NUMBER                                                  | 5                      | 5                             | 5                             |      |
| NOZZLE SPACING                                                 | 18.000                 | 18.000                        | 18.000                        | IN   |
| SCREEN SIZE                                                    |                        |                               |                               |      |
| SCREEN SZ DESC                                                 | NA                     | NA                            | NA                            |      |
| SWATH WIDTH                                                    | 7.5                    | 7.5                           | 7.5                           | FT   |
| BOOM HEIGHT                                                    | 20.0                   | 20.0                          | 20.0                          | IN   |
| SPEED                                                          | 3.00                   | 3.00                          | 3.00                          | M/H  |
| MIX SIZE                                                       | 0.260                  | 0.260                         | 0.260                         |      |
| MIX SIZE UNIT                                                  | GAL                    | GAL                           | GAL                           |      |
| SPRAY VOLUME                                                   | 15.00                  | 15.00                         | 15.00                         |      |
| SPRAY VOLUME UNIT                                              | GPA                    | GPA                           | GPA                           |      |
| PRESSURE                                                       | 30.00                  | 30.00                         | 30.00                         | PSI  |
| DILUENT                                                        | WATER                  | WATER                         | WATER                         |      |
| INC. DATE                                                      |                        |                               |                               | AME  |
| INC. START                                                     |                        |                               |                               | 24H  |
| INC. END                                                       |                        |                               |                               | 24H  |
| INC. DEPTH                                                     |                        |                               |                               | IN   |
| INC. EQUIPMENT                                                 | TO BE SEL              | TO BE SEL                     | TO BE SEL                     |      |
| 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        | DEN / STG<br>MIN / MAX        |      |
| CROP *                                                         |                        |                               |                               |      |
| P, soybean;soya bea<br>AG36X4 RR2XTEND<br>(PLANTED) 05/19/2016 |                        | ---/14<br>4.00/5.00<br>25 DAP | ---/15<br>6.00/8.00<br>30 DAP | IN   |
| PEST *                                                         |                        |                               |                               |      |
| P, velvetleaf;velve                                            |                        | ---/14<br>2.00/2.00           | ---/14<br>3.00/4.00           | IN   |
| P, tall amaranth;co                                            |                        | ---/13<br>0.50/3.00           | ---/16<br>2.00/5.00           | IN   |
| P, common lambsquar                                            |                        |                               | ---/19<br>3.00/3.00           | IN   |

\*\*\* CONTINUE

| SPECIE AND STAGE    | DEN / STG | DEN / STG           | DEN / STG           |    |
|---------------------|-----------|---------------------|---------------------|----|
|                     | MIN / MAX | MIN / MAX           | MIN / MAX           |    |
| PEST *              |           |                     |                     |    |
| P, common morning g |           | ---/16<br>1.00/3.00 | ---/13<br>0.50/3.00 | IN |
| P, giant foxtail;no |           | ---/14<br>1.00/5.00 | ---/16<br>1.00/8.00 | IN |
| P, beach cocklebur; |           | ---/14<br>2.00/4.00 | ---/14<br>2.00/6.00 | IN |

## \* TIMING CODES

09 = --- / PREEMERGENCE

11 = --- / EPOST

12 = --- / POST

## \* STAGE CODE

13 = 3RD TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

14 = 4TH LEAF (2ND TRIFOLIATE LEAF) UNFOLDED, 3 NODES

14 = 4 LEAVES UNFOLDED

14 = 4TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

15 = 5TH LEAF (3RD TRIFOLIATE LEAF) UNFOLDED, 4 NODES

16 = 6TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

16 = 6 LEAVES UNFOLDED

19 = &gt;8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

**TITLE:** Valent and FMC Weed Control Systems in RR2Xtend Soybean. AS-200.  
**CREATED:** 04/22/2016 **REVISED:** 01/06/2017 **COMPLETED:** N  
**PROJECT TYPE:** HERBICIDE  
**LOCATION:** Urbana **RESEARCHED BY:** UNIV. OF ILL  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 7.50 FT WIDE X 30.00 FT LONG  
**PLOT AREA:** 225.00 SFT

REPS: 03

| TRT TREATMENT<br>NUM COMPONENT | DOSAGE<br>RATE | UNIT | TM | GLXMA<br>CON %<br>06/09/16 | SETFA<br>CON %<br>06/09/16 | CHEAL<br>CON %<br>06/09/16 | AMATA<br>CON %<br>06/09/16 | ABUTH<br>CON %<br>06/09/16 | PHBPU<br>CON %<br>06/09/16 |
|--------------------------------|----------------|------|----|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 1A»RNDUP POWERMAX              | 1.125          | LAA  | 12 | C                          | C                          | C                          | C                          | C                          | C                          |
| B CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 2A»FIERCE 76WG                 | 0.14           | LAA  | 9  | 10                         | 94                         | 99                         | 99                         | 99                         | 70                         |
| B»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 3A»AUTHOR. ELITE               | 1.42           | LAA  | 9  | 2                          | 99                         | 99                         | 99                         | 99                         | 87                         |
| B»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 4A BOUNDARY 6.5EC              | 1.46           | LAA  | 9  | 0                          | 99                         | 93                         | 99                         | 67                         | 27                         |
| B»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 5A»FIERCE XLT                  | 4.00           | OMA  | 0  | 10                         | 95                         | 99                         | 99                         | 99                         | 84                         |
| B VALOR 51WG                   | 0.0614         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C»ZIDUA 85WG                   | 0.0779         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| D CLASSIC 25WG                 | 0.0167         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| E»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| F CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| G»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 6A»ROWEL 51WG                  | 0.064          | LAA  | 9  | 20                         | 92                         | 99                         | 99                         | 96                         | 91                         |
| B»WARRANT 3L                   | 1.50           | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| E»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 7A»AUTHOR. FIRST               | 0.22           | LAA  | 9  | 0                          | 82                         | 99                         | 99                         | 99                         | 89                         |
| B»ANTHEM MAXX 4.               | 0.10           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| 8A»ROWEL FX 40.3W              | 3.00           | OMA  | 0  | 8                          | 88                         | 99                         | 99                         | 99                         | 73                         |
| B VALOR 51WG                   | 0.0563         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C CLASSIC 25WG                 | 0.0193         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| D»WARRANT 3L                   | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| E»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| F CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| 9A»AUTHOR. ELITE               | 1.42           | LAA  | 9  | 2                          | 98                         | 99                         | 99                         | 89                         | 93                         |
| B»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| 10A»ANTHEM MAXX 4.             | 0.134          | LAA  | 11 | C                          | C                          | C                          | C                          | C                          | C                          |
| B»RNDUP POWERMAX               | 0.84           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| 11A»WARRANT 3L                 | 1.125          | LAA  | 11 | C                          | C                          | C                          | C                          | C                          | C                          |
| B»RNDUP POWERMAX               | 0.84           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| 12A CHECK                      | 0.00           | NA   | 0  | 0                          | 0                          | 0                          | 0                          | 0                          | 0                          |
| 13A»ROWEL FX 40.3W             | 3.00           | OMA  | 0  | 2                          | 78                         | 99                         | 99                         | 99                         | 83                         |
| B VALOR 51WG                   | 0.0563         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C CLASSIC 25WG                 | 0.0193         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| D»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| E CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |

TITLE: Valent and FMC Weed Control Systems in RR2Xtend Soybean. AS-200.

| TRT  | TREATMENT        | DOSAGE             |         | GLXMA    | SETFA    | CHEAL    | AMATA    | ABUTH    | PHBPU    |
|------|------------------|--------------------|---------|----------|----------|----------|----------|----------|----------|
| NUM  | COMPONENT        | RATE               | UNIT TM | CON %    | CON %    | CON %    | CON %    | CON %    | CON %    |
|      |                  |                    |         | 06/09/16 | 06/09/16 | 06/09/16 | 06/09/16 | 06/09/16 | 06/09/16 |
| 14A» | OPTILL 68WG      | 0.085              | LAA 9   | 0        | 98       | 99       | 99       | 99       | 92       |
|      | B»ZIDUA 85WG     | 0.106              | LAA 9   |          |          |          |          |          |          |
|      | C»RNDUP POWERMAX | 1.125              | LAA 12  |          |          |          |          |          |          |
|      | D CLARITY        | 0.50               | LAA 12  |          |          |          |          |          |          |
| 15A» | DUAL MAGNUM 7.   | 0.96               | LAA 9   | 0        | 96       | 99       | 99       | 91       | 93       |
|      | B»AUTHORITY XL 7 | 0.26               | LAA 9   |          |          |          |          |          |          |
|      | C»RNDUP POWERMAX | 1.125              | LAA 12  |          |          |          |          |          |          |
|      | D CLARITY        | 0.50               | LAA 12  |          |          |          |          |          |          |
| 16A  | BOUNDARY 6.5EC   | 1.62               | LAA 9   | 3        | 98       | 99       | 99       | 73       | 25       |
|      | B»FLEXSTAR GT 3. | 1.06               | LAA 12  |          |          |          |          |          |          |
|      | C CLARITY        | 0.50               | LAA 12  |          |          |          |          |          |          |
|      | D»ACTIVATOR 90   | 0.25               | PMV 12  |          |          |          |          |          |          |
|      |                  | LSD (0.05)         |         | 4.2      | 4.1      | 4.6      | 0.0      | 7.7      | 9.8      |
|      |                  | STANDARD DEVIATION |         | 2.1      | 2.0      | 2.2      | 0.0      | 3.8      | 4.8      |

**TITLE:** Valent and FMC Weed Control Systems in RR2Xtend Soybean. AS-200.  
**CREATED:** 04/22/2016 **REVISED:** 01/06/2017 **COMPLETED:** N  
**PROJECT TYPE:** HERBICIDE  
**LOCATION:** Urbana **RESEARCHED BY:** UNIV. OF ILL  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 7.50 FT WIDE X 30.00 FT LONG  
**PLOT AREA:** 225.00 SFT

REPS: 03

| TRT TREATMENT<br>NUM COMPONENT | DOSAGE<br>RATE | UNIT | TM | XANST<br>CON %<br>06/09/16 | GLXMA<br>CON %<br>06/18/16 | SETFA<br>CON %<br>06/18/16 | CHEAL<br>CON %<br>06/18/16 | AMATA<br>CON %<br>06/18/16 | ABUTH<br>CON %<br>06/18/16 |
|--------------------------------|----------------|------|----|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 1A»RNDUP POWERMAX              | 1.125          | LAA  | 12 | C                          | C                          | C                          | C                          | C                          | C                          |
| B CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 2A»FIERCE 76WG                 | 0.14           | LAA  | 9  | 58                         | 0                          | 91                         | 99                         | 99                         | 99                         |
| B»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 3A»AUTHOR. ELITE               | 1.42           | LAA  | 9  | 18                         | 0                          | 97                         | 99                         | 99                         | 96                         |
| B»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 4A BOUNDARY 6.5EC              | 1.46           | LAA  | 9  | 30                         | 0                          | 98                         | 99                         | 99                         | 60                         |
| B»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 5A»FIERCE XLT                  | 4.00           | OMA  | 0  | 62                         | 0                          | 88                         | 99                         | 99                         | 99                         |
| B VALOR 51WG                   | 0.0614         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C»ZIDUA 85WG                   | 0.0779         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| D CLASSIC 25WG                 | 0.0167         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| E»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| F CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| G»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 6A»ROWEL 51WG                  | 0.064          | LAA  | 9  | 63                         | 1                          | 90                         | 99                         | 99                         | 99                         |
| B»WARRANT 3L                   | 1.50           | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| E»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 7A»AUTHOR. FIRST               | 0.22           | LAA  | 9  | 78                         | 0                          | 65                         | 99                         | 99                         | 99                         |
| B»ANTHEM MAXX 4.               | 0.10           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| 8A»ROWEL FX 40.3W              | 3.00           | OMA  | 0  | 67                         | 0                          | 58                         | 99                         | 99                         | 99                         |
| B VALOR 51WG                   | 0.0563         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C CLASSIC 25WG                 | 0.0193         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| D»WARRANT 3L                   | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| E»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| F CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| 9A»AUTHOR. ELITE               | 1.42           | LAA  | 9  | 33                         | 0                          | 96                         | 99                         | 99                         | 99                         |
| B»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| 10A»ANTHEM MAXX 4.             | 0.134          | LAA  | 11 | C                          | C                          | C                          | C                          | C                          | C                          |
| B»RNDUP POWERMAX               | 0.84           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| 11A»WARRANT 3L                 | 1.125          | LAA  | 11 | C                          | C                          | C                          | C                          | C                          | C                          |
| B»RNDUP POWERMAX               | 0.84           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| 12A CHECK                      | 0.00           | NA   | 0  | 0                          | 0                          | 0                          | 0                          | 0                          | 0                          |
| 13A»ROWEL FX 40.3W             | 3.00           | OMA  | 0  | 58                         | 0                          | 57                         | 99                         | 99                         | 99                         |
| B VALOR 51WG                   | 0.0563         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C CLASSIC 25WG                 | 0.0193         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| D»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| E CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |

TITLE: Valent and FMC Weed Control Systems in RR2Xtend Soybean. AS-200.

| TRT  | TREATMENT        | DOSAGE             |         | XANST    | GLXMA    | SETFA    | CHEAL    | AMATA    | ABUTH    |
|------|------------------|--------------------|---------|----------|----------|----------|----------|----------|----------|
| NUM  | COMPONENT        | RATE               | UNIT TM | CON %    | CON %    | CON %    | CON %    | CON %    | CON %    |
|      |                  |                    |         | 06/09/16 | 06/18/16 | 06/18/16 | 06/18/16 | 06/18/16 | 06/18/16 |
| 14A» | OPTILL 68WG      | 0.085              | LAA 9   | 73       | 0        | 93       | 99       | 99       | 99       |
|      | B»ZIDUA 85WG     | 0.106              | LAA 9   |          |          |          |          |          |          |
|      | C»RNDUP POWERMAX | 1.125              | LAA 12  |          |          |          |          |          |          |
|      | D CLARITY        | 0.50               | LAA 12  |          |          |          |          |          |          |
| 15A» | DUAL MAGNUM 7.   | 0.96               | LAA 9   | 78       | 0        | 91       | 99       | 99       | 99       |
|      | B»AUTHORITY XL 7 | 0.26               | LAA 9   |          |          |          |          |          |          |
|      | C»RNDUP POWERMAX | 1.125              | LAA 12  |          |          |          |          |          |          |
|      | D CLARITY        | 0.50               | LAA 12  |          |          |          |          |          |          |
| 16A  | BOUNDARY 6.5EC   | 1.62               | LAA 9   | 43       | 0        | 97       | 99       | 99       | 68       |
|      | B»FLEXSTAR GT 3. | 1.06               | LAA 12  |          |          |          |          |          |          |
|      | C CLARITY        | 0.50               | LAA 12  |          |          |          |          |          |          |
|      | D»ACTIVATOR 90   | 0.25               | PMV 12  |          |          |          |          |          |          |
|      |                  | LSD (0.05)         |         | 9.5      | 0.7      | 8.2      | 0.0      | 0.0      | 5.3      |
|      |                  | STANDARD DEVIATION |         | 4.7      | 0.4      | 4.0      | 0.0      | 0.0      | 2.6      |

**TITLE:** Valent and FMC Weed Control Systems in RR2Xtend Soybean. AS-200.  
**CREATED:** 04/22/2016 **REVISED:** 01/06/2017 **COMPLETED:** N  
**PROJECT TYPE:** HERBICIDE  
**LOCATION:** Urbana **RESEARCHED BY:** UNIV. OF ILL  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 7.50 FT WIDE X 30.00 FT LONG  
**PLOT AREA:** 225.00 SFT

REPS: 03

| TRT TREATMENT<br>NUM COMPONENT | DOSAGE<br>RATE | UNIT | TM | PHBPU<br>CON %<br>06/18/16 | XANST<br>CON %<br>06/18/16 | GLXMA<br>CON %<br>06/28/16 | SETFA<br>CON %<br>06/28/16 | CHEAL<br>CON %<br>06/28/16 | AMATA<br>CON %<br>06/28/16 |
|--------------------------------|----------------|------|----|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 1A»RNDUP POWERMAX              | 1.125          | LAA  | 12 | C                          | C                          | 0                          | 99                         | 99                         | 97                         |
| B CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 2A»FIERCE 76WG                 | 0.14           | LAA  | 9  | 79                         | 63                         | 0                          | 99                         | 99                         | 99                         |
| B»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 3A»AUTHOR. ELITE               | 1.42           | LAA  | 9  | 85                         | 43                         | 0                          | 99                         | 99                         | 99                         |
| B»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 4A BOUNDARY 6.5EC              | 1.46           | LAA  | 9  | 30                         | 27                         | 0                          | 99                         | 99                         | 99                         |
| B»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 5A»FIERCE XLT                  | 4.00           | OMA  | 0  | 87                         | 70                         | 0                          | 99                         | 99                         | 99                         |
| B VALOR 51WG                   | 0.0614         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C»ZIDUA 85WG                   | 0.0779         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| D CLASSIC 25WG                 | 0.0167         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| E»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| F CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| G»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 6A»ROWEL 51WG                  | 0.064          | LAA  | 9  | 83                         | 60                         | 0                          | 99                         | 99                         | 99                         |
| B»WARRANT 3L                   | 1.50           | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| E»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 7A»AUTHOR. FIRST               | 0.22           | LAA  | 9  | 93                         | 84                         | 0                          | 99                         | 99                         | 99                         |
| B»ANTHEM MAXX 4.               | 0.10           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| 8A»ROWEL FX 40.3W              | 3.00           | OMA  | 0  | 73                         | 63                         | 0                          | 99                         | 99                         | 99                         |
| B VALOR 51WG                   | 0.0563         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C CLASSIC 25WG                 | 0.0193         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| D»WARRANT 3L                   | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| E»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| F CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| 9A»AUTHOR. ELITE               | 1.42           | LAA  | 9  | 87                         | 67                         | 0                          | 99                         | 99                         | 99                         |
| B»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| 10A»ANTHEM MAXX 4.             | 0.134          | LAA  | 11 | C                          | C                          | 1                          | 97                         | 99                         | 96                         |
| B»RNDUP POWERMAX               | 0.84           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| 11A»WARRANT 3L                 | 1.125          | LAA  | 11 | C                          | C                          | 0                          | 96                         | 99                         | 97                         |
| B»RNDUP POWERMAX               | 0.84           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| 12A CHECK                      | 0.00           | NA   | 0  | 0                          | 0                          | 0                          | 0                          | 0                          | 0                          |
| 13A»ROWEL FX 40.3W             | 3.00           | OMA  | 0  | 75                         | 52                         | 0                          | 98                         | 99                         | 99                         |
| B VALOR 51WG                   | 0.0563         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C CLASSIC 25WG                 | 0.0193         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| D»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| E CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |

TITLE: Valent and FMC Weed Control Systems in RR2Xtend Soybean. AS-200.

| TRT                | TREATMENT        | DOSAGE |         | PHBPU    | XANST    | GLXMA    | SETFA    | CHEAL    | AMATA    |
|--------------------|------------------|--------|---------|----------|----------|----------|----------|----------|----------|
| NUM                | COMPONENT        | RATE   | UNIT TM | CON %    | CON %    | CON %    | CON %    | CON %    | CON %    |
|                    |                  |        |         | 06/18/16 | 06/18/16 | 06/28/16 | 06/28/16 | 06/28/16 | 06/28/16 |
| 14A»               | OPTILL 68WG      | 0.085  | LAA 9   | 93       | 78       | 0        | 99       | 99       | 99       |
|                    | B»ZIDUA 85WG     | 0.106  | LAA 9   |          |          |          |          |          |          |
|                    | C»RNDUP POWERMAX | 1.125  | LAA 12  |          |          |          |          |          |          |
|                    | D CLARITY        | 0.50   | LAA 12  |          |          |          |          |          |          |
| 15A»               | DUAL MAGNUM 7.   | 0.96   | LAA 9   | 90       | 75       | 0        | 99       | 99       | 99       |
|                    | B»AUTHORITY XL 7 | 0.26   | LAA 9   |          |          |          |          |          |          |
|                    | C»RNDUP POWERMAX | 1.125  | LAA 12  |          |          |          |          |          |          |
|                    | D CLARITY        | 0.50   | LAA 12  |          |          |          |          |          |          |
| 16A                | BOUNDARY 6.5EC   | 1.62   | LAA 9   | 33       | 33       | 5        | 99       | 99       | 99       |
|                    | B»FLEXSTAR GT 3. | 1.06   | LAA 12  |          |          |          |          |          |          |
|                    | C CLARITY        | 0.50   | LAA 12  |          |          |          |          |          |          |
|                    | D»ACTIVATOR 90   | 0.25   | PMV 12  |          |          |          |          |          |          |
| LSD (0.05)         |                  |        |         | 9.6      | 13.0     | 0.5      | 0.9      | 0.0      | 1.6      |
| STANDARD DEVIATION |                  |        |         | 4.7      | 6.3      | 0.2      | 0.5      | 0.0      | 0.8      |

**TITLE:** Valent and FMC Weed Control Systems in RR2Xtend Soybean. AS-200.  
**CREATED:** 04/22/2016 **REVISED:** 01/06/2017 **COMPLETED:** N  
**PROJECT TYPE:** HERBICIDE  
**LOCATION:** Urbana **RESEARCHED BY:** UNIV. OF ILL  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 7.50 FT WIDE X 30.00 FT LONG  
**PLOT AREA:** 225.00 SFT

REPS: 03

| TRT TREATMENT<br>NUM COMPONENT | DOSAGE<br>RATE | UNIT | TM | ABUTH<br>CON %<br>06/28/16 | PHBPU<br>CON %<br>06/28/16 | XANST<br>CON %<br>06/28/16 | GLXMA<br>CON %<br>07/07/16 | SETFA<br>CON %<br>07/07/16 | CHEAL<br>CON %<br>07/07/16 |
|--------------------------------|----------------|------|----|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 1A»RNDUP POWERMAX              | 1.125          | LAA  | 12 | 98                         | 98                         | 99                         | 0                          | 97                         | 99                         |
| B CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 2A»FIERCE 76WG                 | 0.14           | LAA  | 9  | 99                         | 99                         | 99                         | 0                          | 99                         | 99                         |
| B»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 3A»AUTHOR. ELITE               | 1.42           | LAA  | 9  | 99                         | 99                         | 99                         | 0                          | 99                         | 99                         |
| B»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 4A BOUNDARY 6.5EC              | 1.46           | LAA  | 9  | 99                         | 98                         | 99                         | 0                          | 99                         | 99                         |
| B»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 5A»FIERCE XLT                  | 4.00           | OMA  | 0  | 99                         | 99                         | 99                         | 0                          | 99                         | 99                         |
| B VALOR 51WG                   | 0.0614         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C»ZIDUA 85WG                   | 0.0779         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| D CLASSIC 25WG                 | 0.0167         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| E»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| F CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| G»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 6A»ROWEL 51WG                  | 0.064          | LAA  | 9  | 99                         | 99                         | 99                         | 0                          | 99                         | 99                         |
| B»WARRANT 3L                   | 1.50           | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| E»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 7A»AUTHOR. FIRST               | 0.22           | LAA  | 9  | 99                         | 99                         | 99                         | 0                          | 99                         | 99                         |
| B»ANTHEM MAXX 4.               | 0.10           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| 8A»ROWEL FX 40.3W              | 3.00           | OMA  | 0  | 99                         | 99                         | 99                         | 0                          | 99                         | 99                         |
| B VALOR 51WG                   | 0.0563         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C CLASSIC 25WG                 | 0.0193         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| D»WARRANT 3L                   | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| E»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| F CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| 9A»AUTHOR. ELITE               | 1.42           | LAA  | 9  | 99                         | 99                         | 99                         | 0                          | 99                         | 99                         |
| B»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| 10A»ANTHEM MAXX 4.             | 0.134          | LAA  | 11 | 98                         | 95                         | 98                         | 0                          | 96                         | 99                         |
| B»RNDUP POWERMAX               | 0.84           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| 11A»WARRANT 3L                 | 1.125          | LAA  | 11 | 97                         | 91                         | 99                         | 0                          | 93                         | 99                         |
| B»RNDUP POWERMAX               | 0.84           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| 12A CHECK                      | 0.00           | NA   | 0  | 0                          | 0                          | 0                          | 0                          | 0                          | 0                          |
| 13A»ROWEL FX 40.3W             | 3.00           | OMA  | 0  | 99                         | 99                         | 99                         | 0                          | 99                         | 99                         |
| B VALOR 51WG                   | 0.0563         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C CLASSIC 25WG                 | 0.0193         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| D»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| E CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |

TITLE: Valent and FMC Weed Control Systems in RR2Xtend Soybean. AS-200.

| TRT                | TREATMENT        | DOSAGE | ABUTH  | PHBPU    | XANST    | GLXMA    | SETFA    | CHEAL    |
|--------------------|------------------|--------|--------|----------|----------|----------|----------|----------|
| NUM                | COMPONENT        | RATE   | UNIT   | CON %    | CON %    | CON %    | CON %    | CON %    |
|                    |                  |        | TM     | 06/28/16 | 06/28/16 | 06/28/16 | 07/07/16 | 07/07/16 |
| 14A»               | OPTILL 68WG      | 0.085  | LAA 9  | 99       | 99       | 99       | 0        | 99       |
|                    | B»ZIDUA 85WG     | 0.106  | LAA 9  |          |          |          |          |          |
|                    | C»RNDUP POWERMAX | 1.125  | LAA 12 |          |          |          |          |          |
|                    | D CLARITY        | 0.50   | LAA 12 |          |          |          |          |          |
| 15A»               | DUAL MAGNUM 7.   | 0.96   | LAA 9  | 99       | 99       | 99       | 0        | 99       |
|                    | B»AUTHORITY XL 7 | 0.26   | LAA 9  |          |          |          |          |          |
|                    | C»RNDUP POWERMAX | 1.125  | LAA 12 |          |          |          |          |          |
|                    | D CLARITY        | 0.50   | LAA 12 |          |          |          |          |          |
| 16A                | BOUNDARY 6.5EC   | 1.62   | LAA 9  | 98       | 96       | 99       | 0        | 99       |
|                    | B»FLEXSTAR GT 3. | 1.06   | LAA 12 |          |          |          |          |          |
|                    | C CLARITY        | 0.50   | LAA 12 |          |          |          |          |          |
|                    | D»ACTIVATOR 90   | 0.25   | PMV 12 |          |          |          |          |          |
| LSD (0.05)         |                  |        |        | 1.6      | 1.3      | 0.2      | 0.0      | 1.2      |
| STANDARD DEVIATION |                  |        |        | 0.8      | 0.6      | 0.1      | 0.0      | 0.6      |

**TITLE:** Valent and FMC Weed Control Systems in RR2Xtend Soybean. AS-200.  
**CREATED:** 04/22/2016 **REVISED:** 01/06/2017 **COMPLETED:** N  
**PROJECT TYPE:** HERBICIDE  
**LOCATION:** Urbana **RESEARCHED BY:** UNIV. OF ILL  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 7.50 FT WIDE X 30.00 FT LONG  
**PLOT AREA:** 225.00 SFT

REPS: 03

| TRT TREATMENT<br>NUM COMPONENT | DOSAGE<br>RATE | UNIT | TM | AMATA<br>CON %<br>07/07/16 | ABUTH<br>CON %<br>07/07/16 | PHBPU<br>CON %<br>07/07/16 | XANST<br>CON %<br>07/07/16 | SETFA<br>CON %<br>07/21/16 | CHEAL<br>CON %<br>07/21/16 |
|--------------------------------|----------------|------|----|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 1A»RNDUP POWERMAX              | 1.125          | LAA  | 12 | 98                         | 99                         | 96                         | 99                         | 97                         | 99                         |
| B CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 2A»FIERCE 76WG                 | 0.14           | LAA  | 9  | 99                         | 99                         | 98                         | 99                         | 99                         | 99                         |
| B»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 3A»AUTHOR. ELITE               | 1.42           | LAA  | 9  | 99                         | 99                         | 99                         | 99                         | 99                         | 99                         |
| B»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 4A BOUNDARY 6.5EC              | 1.46           | LAA  | 9  | 99                         | 99                         | 96                         | 99                         | 99                         | 99                         |
| B»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 5A»FIERCE XLT                  | 4.00           | OMA  | 0  | 99                         | 99                         | 98                         | 99                         | 99                         | 99                         |
| B VALOR 51WG                   | 0.0614         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C»ZIDUA 85WG                   | 0.0779         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| D CLASSIC 25WG                 | 0.0167         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| E»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| F CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| G»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 6A»ROWEL 51WG                  | 0.064          | LAA  | 9  | 99                         | 99                         | 97                         | 99                         | 99                         | 99                         |
| B»WARRANT 3L                   | 1.50           | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| E»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                            |                            |
| 7A»AUTHOR. FIRST               | 0.22           | LAA  | 9  | 99                         | 99                         | 98                         | 99                         | 99                         | 99                         |
| B»ANTHEM MAXX 4.               | 0.10           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| D CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| 8A»ROWEL FX 40.3W              | 3.00           | OMA  | 0  | 99                         | 99                         | 96                         | 99                         | 98                         | 99                         |
| B VALOR 51WG                   | 0.0563         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C CLASSIC 25WG                 | 0.0193         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| D»WARRANT 3L                   | 1.125          | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| E»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| F CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| 9A»AUTHOR. ELITE               | 1.42           | LAA  | 9  | 99                         | 99                         | 98                         | 99                         | 99                         | 99                         |
| B»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| 10A»ANTHEM MAXX 4.             | 0.134          | LAA  | 11 | 98                         | 99                         | 85                         | 99                         | 97                         | 99                         |
| B»RNDUP POWERMAX               | 0.84           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| 11A»WARRANT 3L                 | 1.125          | LAA  | 11 | 99                         | 96                         | 83                         | 98                         | 89                         | 99                         |
| B»RNDUP POWERMAX               | 0.84           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| C CLARITY                      | 0.50           | LAA  | 11 |                            |                            |                            |                            |                            |                            |
| 12A CHECK                      | 0.00           | NA   | 0  | 0                          | 0                          | 0                          | 0                          | 0                          | 0                          |
| 13A»ROWEL FX 40.3W             | 3.00           | OMA  | 0  | 99                         | 99                         | 97                         | 99                         | 99                         | 99                         |
| B VALOR 51WG                   | 0.0563         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| C CLASSIC 25WG                 | 0.0193         | LAA  | 9  |                            |                            |                            |                            |                            |                            |
| D»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                            |                            |
| E CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                            |                            |

TITLE: Valent and FMC Weed Control Systems in RR2Xtend Soybean. AS-200.

| TRT                | TREATMENT        | DOSAGE |         | AMATA    | ABUTH    | PHBPU    | XANST    | SETFA    | CHEAL    |
|--------------------|------------------|--------|---------|----------|----------|----------|----------|----------|----------|
| NUM                | COMPONENT        | RATE   | UNIT TM | CON %    | CON %    | CON %    | CON %    | CON %    | CON %    |
|                    |                  |        |         | 07/07/16 | 07/07/16 | 07/07/16 | 07/07/16 | 07/21/16 | 07/21/16 |
| 14A»               | OPTILL 68WG      | 0.085  | LAA 9   | 99       | 99       | 98       | 99       | 99       | 99       |
|                    | B»ZIDUA 85WG     | 0.106  | LAA 9   |          |          |          |          |          |          |
|                    | C»RNDUP POWERMAX | 1.125  | LAA 12  |          |          |          |          |          |          |
|                    | D CLARITY        | 0.50   | LAA 12  |          |          |          |          |          |          |
| 15A»               | DUAL MAGNUM 7.   | 0.96   | LAA 9   | 99       | 99       | 97       | 99       | 99       | 99       |
|                    | B»AUTHORITY XL 7 | 0.26   | LAA 9   |          |          |          |          |          |          |
|                    | C»RNDUP POWERMAX | 1.125  | LAA 12  |          |          |          |          |          |          |
|                    | D CLARITY        | 0.50   | LAA 12  |          |          |          |          |          |          |
| 16A                | BOUNDARY 6.5EC   | 1.62   | LAA 9   | 98       | 99       | 93       | 99       | 99       | 99       |
|                    | B»FLEXSTAR GT 3. | 1.06   | LAA 12  |          |          |          |          |          |          |
|                    | C CLARITY        | 0.50   | LAA 12  |          |          |          |          |          |          |
|                    | D»ACTIVATOR 90   | 0.25   | PMV 12  |          |          |          |          |          |          |
| LSD (0.05)         |                  |        |         | 0.8      | 1.3      | 2.3      | 0.5      | 2.4      | 0.0      |
| STANDARD DEVIATION |                  |        |         | 0.4      | 0.6      | 1.1      | 0.2      | 1.2      | 0.0      |

**TITLE:** Valent and FMC Weed Control Systems in RR2Xtend Soybean. AS-200.  
**CREATED:** 04/22/2016 **REVISED:** 01/06/2017 **COMPLETED:** N  
**PROJECT TYPE:** HERBICIDE  
**LOCATION:** Urbana **RESEARCHED BY:** UNIV. OF ILL  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 7.50 FT WIDE X 30.00 FT LONG  
**PLOT AREA:** 225.00 SFT

REPS: 03

| TRT TREATMENT<br>NUM COMPONENT | DOSAGE<br>RATE | UNIT | TM | AMATA<br>CON %<br>07/21/16 | ABUTH<br>CON %<br>07/21/16 | PHBPU<br>CON %<br>07/21/16 | XANST<br>CON %<br>07/21/16 | YIELD<br>BU/ACRE<br>10/25/16 |
|--------------------------------|----------------|------|----|----------------------------|----------------------------|----------------------------|----------------------------|------------------------------|
| 1A»RNDUP POWERMAX              | 1.125          | LAA  | 12 | 98                         | 99                         | 95                         | 97                         | 80.6                         |
| B CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                              |
| C»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                              |
| 2A»FIERCE 76WG                 | 0.14           | LAA  | 9  | 99                         | 99                         | 97                         | 99                         | 87.2                         |
| B»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                              |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                              |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                              |
| 3A»AUTHOR. ELITE               | 1.42           | LAA  | 9  | 99                         | 99                         | 98                         | 99                         | 84.6                         |
| B»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                              |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                              |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                              |
| 4A BOUNDARY 6.5EC              | 1.46           | LAA  | 9  | 99                         | 99                         | 94                         | 99                         | 71.3                         |
| B»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                              |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                              |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                              |
| 5A»FIERCE XLT                  | 4.00           | OMA  | 0  | 99                         | 99                         | 98                         | 99                         | 75.8                         |
| B VALOR 51WG                   | 0.0614         | LAA  | 9  |                            |                            |                            |                            |                              |
| C»ZIDUA 85WG                   | 0.0779         | LAA  | 9  |                            |                            |                            |                            |                              |
| D CLASSIC 25WG                 | 0.0167         | LAA  | 9  |                            |                            |                            |                            |                              |
| E»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                              |
| F CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                              |
| G»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                              |
| 6A»ROWEL 51WG                  | 0.064          | LAA  | 9  | 99                         | 99                         | 97                         | 99                         | 74.8                         |
| B»WARRANT 3L                   | 1.50           | LAA  | 9  |                            |                            |                            |                            |                              |
| C»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                              |
| D CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                              |
| E»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                              |
| 7A»AUTHOR. FIRST               | 0.22           | LAA  | 9  | 99                         | 99                         | 99                         | 99                         | 75.5                         |
| B»ANTHEM MAXX 4.               | 0.10           | LAA  | 12 |                            |                            |                            |                            |                              |
| C»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                              |
| D CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                              |
| 8A»ROWEL FX 40.3W              | 3.00           | OMA  | 0  | 99                         | 99                         | 98                         | 99                         | 88.2                         |
| B VALOR 51WG                   | 0.0563         | LAA  | 9  |                            |                            |                            |                            |                              |
| C CLASSIC 25WG                 | 0.0193         | LAA  | 9  |                            |                            |                            |                            |                              |
| D»WARRANT 3L                   | 1.125          | LAA  | 12 |                            |                            |                            |                            |                              |
| E»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                              |
| F CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                              |
| 9A»AUTHOR. ELITE               | 1.42           | LAA  | 9  | 99                         | 99                         | 97                         | 99                         | 69.5                         |
| B»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                              |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                              |
| 10A»ANTHEM MAXX 4.             | 0.134          | LAA  | 11 | 99                         | 99                         | 90                         | 99                         | 81.5                         |
| B»RNDUP POWERMAX               | 0.84           | LAA  | 11 |                            |                            |                            |                            |                              |
| C CLARITY                      | 0.50           | LAA  | 11 |                            |                            |                            |                            |                              |
| 11A»WARRANT 3L                 | 1.125          | LAA  | 11 | 98                         | 98                         | 88                         | 96                         | 77.6                         |
| B»RNDUP POWERMAX               | 0.84           | LAA  | 11 |                            |                            |                            |                            |                              |
| C CLARITY                      | 0.50           | LAA  | 11 |                            |                            |                            |                            |                              |
| 12A CHECK                      | 0.00           | NA   | 0  | 0                          | 0                          | 0                          | 0                          | 2.6                          |
| 13A»ROWEL FX 40.3W             | 3.00           | OMA  | 0  | 99                         | 99                         | 99                         | 99                         | 82.2                         |
| B VALOR 51WG                   | 0.0563         | LAA  | 9  |                            |                            |                            |                            |                              |
| C CLASSIC 25WG                 | 0.0193         | LAA  | 9  |                            |                            |                            |                            |                              |
| D»RNDUP POWERMAX               | 0.84           | LAA  | 12 |                            |                            |                            |                            |                              |
| E CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                              |

TITLE: Valent and FMC Weed Control Systems in RR2Xtend Soybean. AS-200.

| TRT TREATMENT<br>NUM COMPONENT | DOSAGE<br>RATE | UNIT | TM | AMATA<br>CON %<br>07/21/16 | ABUTH<br>CON %<br>07/21/16 | PHBPU<br>CON %<br>07/21/16 | XANST<br>CON %<br>07/21/16 | YIELD<br>BU/ACRE<br>10/25/16 |
|--------------------------------|----------------|------|----|----------------------------|----------------------------|----------------------------|----------------------------|------------------------------|
| 14A»OPTILL 68WG                | 0.085          | LAA  | 9  | 99                         | 99                         | 98                         | 99                         | 85.3                         |
| B»ZIDUA 85WG                   | 0.106          | LAA  | 9  |                            |                            |                            |                            |                              |
| C»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                              |
| D CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                              |
| 15A»DUAL MAGNUM 7.             | 0.96           | LAA  | 9  | 99                         | 99                         | 99                         | 99                         | 81.9                         |
| B»AUTHORITY XL 7               | 0.26           | LAA  | 9  |                            |                            |                            |                            |                              |
| C»RNDUP POWERMAX               | 1.125          | LAA  | 12 |                            |                            |                            |                            |                              |
| D CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                              |
| 16A BOUNDARY 6.5EC             | 1.62           | LAA  | 9  | 99                         | 99                         | 94                         | 99                         | 79.5                         |
| B»FLEXSTAR GT 3.               | 1.06           | LAA  | 12 |                            |                            |                            |                            |                              |
| C CLARITY                      | 0.50           | LAA  | 12 |                            |                            |                            |                            |                              |
| D»ACTIVATOR 90                 | 0.25           | PMV  | 12 |                            |                            |                            |                            |                              |
| LSD (0.05)                     |                |      |    | 0.7                        | 0.5                        | 3.5                        | 1.0                        | 11.56                        |
| STANDARD DEVIATION             |                |      |    | 0.3                        | 0.2                        | 1.7                        | 0.5                        | 5.66                         |

» = SUPPLEMENTAL CHEMICAL

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

## \* TIMING CODES

00 = --- / UNTREATED TIMING  
 09 = --- / PREEMERGENCE 05/20/2016(1)  
 11 = --- / EPOST 06/13/2016(2)  
 12 = --- / POST 06/18/2016(3)

| H#  | CUSTOM#1 | CUSTOM#2 | EV. DATE   | S# | TYP | SPECI | STAGE | RAW | PRT | SYM   | MTH | CNF | BASIS   | C.M | CTRT | SS | NOTE |
|-----|----------|----------|------------|----|-----|-------|-------|-----|-----|-------|-----|-----|---------|-----|------|----|------|
| 001 | GLXMA    | CON %    | 06/09/2016 | 01 | P   | GLXMA |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 002 | SETFA    | CON %    | 06/09/2016 | 02 | P   | SETFA |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 003 | CHEAL    | CON %    | 06/09/2016 | 03 | P   | CHEAL |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 004 | AMATA    | CON %    | 06/09/2016 | 04 | P   | AMATA |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 005 | ABUTH    | CON %    | 06/09/2016 | 05 | P   | ABUTH |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 006 | PHBPU    | CON %    | 06/09/2016 | 06 | P   | PHBPU |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 007 | XANST    | CON %    | 06/09/2016 | 07 | P   | XANST |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 008 | GLXMA    | CON %    | 06/18/2016 | 01 | P   | GLXMA | 15    | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 009 | SETFA    | CON %    | 06/18/2016 | 02 | P   | SETFA | 16    | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 010 | CHEAL    | CON %    | 06/18/2016 | 03 | P   | CHEAL | 19    | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 011 | AMATA    | CON %    | 06/18/2016 | 04 | P   | AMATA | 16    | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 012 | ABUTH    | CON %    | 06/18/2016 | 05 | P   | ABUTH | 14    | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 013 | PHBPU    | CON %    | 06/18/2016 | 06 | P   | PHBPU | 13    | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 014 | XANST    | CON %    | 06/18/2016 | 07 | P   | XANST | 14    | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 015 | GLXMA    | CON %    | 06/28/2016 | 01 | P   | GLXMA |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 016 | SETFA    | CON %    | 06/28/2016 | 02 | P   | SETFA |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 017 | CHEAL    | CON %    | 06/28/2016 | 03 | P   | CHEAL |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 018 | AMATA    | CON %    | 06/28/2016 | 04 | P   | AMATA |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 019 | ABUTH    | CON %    | 06/28/2016 | 05 | P   | ABUTH |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 020 | PHBPU    | CON %    | 06/28/2016 | 06 | P   | PHBPU |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 021 | XANST    | CON %    | 06/28/2016 | 07 | P   | XANST |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 022 | GLXMA    | CON %    | 07/07/2016 | 01 | P   | GLXMA |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 023 | SETFA    | CON %    | 07/07/2016 | 02 | P   | SETFA |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 024 | CHEAL    | CON %    | 07/07/2016 | 03 | P   | CHEAL |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 025 | AMATA    | CON %    | 07/07/2016 | 04 | P   | AMATA |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 026 | ABUTH    | CON %    | 07/07/2016 | 05 | P   | ABUTH |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 027 | PHBPU    | CON %    | 07/07/2016 | 06 | P   | PHBPU |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 028 | XANST    | CON %    | 07/07/2016 | 07 | P   | XANST |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 029 | SETFA    | CON %    | 07/21/2016 | 02 | P   | SETFA |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 030 | CHEAL    | CON %    | 07/21/2016 | 03 | P   | CHEAL |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 031 | AMATA    | CON %    | 07/21/2016 | 04 | P   | AMATA |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 032 | ABUTH    | CON %    | 07/21/2016 | 05 | P   | ABUTH |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 033 | PHBPU    | CON %    | 07/21/2016 | 06 | P   | PHBPU |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 034 | XANST    | CON %    | 07/21/2016 | 07 | P   | XANST |       | RAW | ALL | CON % |     | --- | 1.00 PL | NO  | 0001 | 0  | N    |
| 035 | YIELD    | BU/ACRE  | 10/25/2016 | 01 | P   | GLXMA |       | RAW | ALL | YLD   | BU  | --- | 1.00 A  | NO  | 0001 | 0  | N    |

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

01 = AG36X4 RR2XTEND

## \* STAGE CODE

13 = 3RD TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED  
 14 = 4TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED  
 15 = 5TH LEAF (3RD TRIFOLIATE LEAF) UNFOLDED, 4 NODES  
 16 = 6 LEAVES UNFOLDED

## \* STAGE CODE

16 = 6TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED  
19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED