

# Purdue Weed Science

## SCEPTER TANK MIXTURES FOR EARLY PREPLANT IN NO-TILL SOYBEANS

Trial ID: 17S-CORT-Soy-04      Location: Cortland      Trial Year: 2017  
 Protocol ID: 17S-CORT-Soy-04      Investigator: Dr. Bill Johnson  
 Project ID: 17C05H044XIN517      Study Director: Taylor Campbell  
 Sponsor Contact: AMVAC - Joseph Argentine

### General Trial Information

**Study Director:** Taylor Campbell      **Title:** Research Associate  
**Investigator:** Dr. Bill Johnson      **Title:** Professor

**Discipline:** H      herbicide  
**Trial Status:** E      established  
**Initiation Date:** 5/15/2017

### Trial Location

**City:** Cortland      **Country:** USA United States  
**State/Prov.:** Indiana  
**Postal Code:** 47228

**Conducted Under GLP:** No  
**Conducted Under GEP:** No

### Contacts

**Study Director:** Taylor Campbell      **Title:** Research Associate  
**Organization:** Purdue University  
**Address:** 915 W State Street  
**City+State/Prov:** West Lafayette, IN  
**Postal Code:** 47907      **E-mail:** campbe59@purdue.edu  
**Country:** USA      United States

**Investigator:** Dr. Bill Johnson      **Title:** Professor  
**Organization:** Purdue University  
**Address:** 915 W State Street  
**City+State/Prov:** West Lafayette, IN  
**Postal Code:** 47907      **E-mail:** wj@purdue.edu  
**Country:** USA      United States

### Crop Description

**Crop 1:** GLXMA      Glycine max      Soybean  
**Variety:** P33T19X

**Planting Rate, Unit:** 140000 S/A      **Planting Date:** 5/26/2017  
**Depth, Unit:** 1.5 IN      **Planting Method:** PLANTD planted  
**Row Spacing, Unit:** 30 IN      **Planting Equipment:** PP      Plot Planter  
**Planting Density, Unit:** 140000 S/A      **Emergence Date:** 6/4/2017  
**Soil Temperature, Unit:** 68 F  
**Soil Moisture:** DAMP      damp

### Pest Description

**Pest 1 Type:** W      **Code:** ERICA Erigeron canadensis  
**Common Name:** Canada horseweed

### Site and Design

**Treated Plot Width:** 6.67 FT      **Site Type:** FIELD      field  
**Treated Plot Length:** 30 FT      **Experimental Unit:** 1      PLOT      plot  
**Treated Plot Area:** 200.1 FT2      **Treatments:** 16      **Tillage Type:** NOTILL      no-till  
**Replications:** 4      **Study Design:** RACOBL Randomized Complete Block (RCB)

### Soil Description

**Description Name:** CORTLAND  
**% Sand:** 46.6      **% OM:** 1.6      **Texture:** SL sandy loam  
**% Silt:** 35.6      **pH:** 6.6      **Soil Name:** Fox-Ockley  
**% Clay:** 17.8      **CEC:** 9  
**Soil Drainage:** E excellent

### Application Description

|                         | A           |
|-------------------------|-------------|
| Application Date:       | 5/17/2017   |
| Appl. Start Time:       | 8:44 AM     |
| Appl. Stop Time:        | 9:10 AM     |
| Application Method:     | SPRAY       |
| Application Timing:     | EARPRE      |
| Application Placement:  | BROADC      |
| Applied By:             | T. Campbell |
| Air Temperature, Unit:  | 74 F        |
| % Relative Humidity:    | 66          |
| Wind Velocity, Unit:    | 3 MPH       |
| Wind Direction:         | W           |
| Dew Presence (Y/N):     | N no        |
| Soil Temperature, Unit: | 68 F        |
| Soil Moisture:          | DRY         |
| % Cloud Cover:          | 30          |

### Crop Stage At Each Application

|                          | A          |
|--------------------------|------------|
| Crop 1 Code, BBCH Scale: | GLXMA BSOY |

### Pest Stage At Each Application

|                           | A       |
|---------------------------|---------|
| Pest 1 Code, Type, Scale: | ERICA W |
| Stage Majority, Percent:  | 19      |
| Stage Minimum, Percent:   | 14      |
| Stage Maximum, Percent:   | 17      |
| Height, Unit:             | 3 IN    |
| Height Minimum, Maximum:  | 1 4     |
| Density, Unit:            | 20 FT2  |

### Application Equipment

|                           | A            |
|---------------------------|--------------|
| Appl. Equipment:          | CO2 BACKPACK |
| Equipment Type:           | BACCAI       |
| Operation Pressure, Unit: | 42 PSI       |
| Nozzle Type:              | AIXR         |
| Nozzle Size:              | 11015        |
| Nozzle Spacing, Unit:     | 20 IN        |
| Nozzles/Row:              | 4            |
| Boom Length, Unit:        | 6.7 FT       |
| Boom Height, Unit:        | 18 IN        |
| Ground Speed, Unit:       | 3 MPH        |
| Carrier:                  | WATER        |
| Spray Volume, Unit:       | 15 GAL/AC    |
| Mix Size, Unit:           | 1119 mL      |
| Propellant:               | COMCO2       |

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## SCEPTER TANK MIXTURES FOR EARLY PREPLANT IN NO-TILL SOYBEANS

Trial ID: 17S-CORT-Soy-04      Location: Cortland      Trial Year: 2017  
 Protocol ID: 17S-CORT-Soy-04      Investigator: Dr. Bill Johnson  
 Project ID: 17C05H044XIN517      Study Director: Taylor Campbell  
 Sponsor Contact: AMVAC - Joseph Argentine

Reps: 4      Plots: 6.67 by 30 feet  
 Spray vol: 15 GAL/AC      Mix Size: 1119 mL (1043.3 mL calculated mix size)

| Trt No. | Treatment Name     | Form Conc    | Form Unit | Form Type | Rate          | Appl Unit | Appl Code | Amt Product to Measure | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
|---------|--------------------|--------------|-----------|-----------|---------------|-----------|-----------|------------------------|-------|-------|-------|-------|
| 1       | UNTREATED CONTROL  |              |           |           |               |           |           |                        | 101   | 208   | 310   | 501   |
| 2       | ROUNDUP POWERMAX   | 4.5 LBAE/GAL | SL        |           | 28.44 fl oz/a | A         |           | 16.58 ml/mx            | 102   | 212   | 406   | 508   |
|         | SHREDDER 2,4-D LV4 | 3.8 LBAE/GAL | SL        |           | 16 fl oz/a    | A         |           | 9.325 ml/mx            |       |       |       |       |
|         | COC                | 100 %        | SL        |           | 1 % v/v       | A         |           | 11.19 ml/mx            |       |       |       |       |
|         | N-PAK              | 3.4 LBA/GAL  | L         |           | 2.5 % v/v     | A         |           | 27.97 ml/mx            |       |       |       |       |
| 3       | ROUNDUP POWERMAX   | 4.5 LBAE/GAL | SL        |           | 28.44 fl oz/a | A         |           | 16.58 ml/mx            | 103   | 306   | 311   | 512   |
|         | SHREDDER 2,4-D LV4 | 3.8 LBAE/GAL | SL        |           | 16 fl oz/a    | A         |           | 9.325 ml/mx            |       |       |       |       |
|         | SCEPTER            | 70 %W/W      | DF        |           | 2.1 oz/a      | A         |           | 1.173 g/mx             |       |       |       |       |
|         | COC                | 100 %        | SL        |           | 1 % v/v       | A         |           | 11.19 ml/mx            |       |       |       |       |
|         | N-PAK              | 3.4 LBA/GAL  | L         |           | 2.5 % v/v     | A         |           | 27.97 ml/mx            |       |       |       |       |
| 4       | ROUNDUP POWERMAX   | 4.5 LBAE/GAL | SL        |           | 28.44 fl oz/a | A         |           | 16.58 ml/mx            | 104   | 213   | 312   | 502   |
|         | SHREDDER 2,4-D LV4 | 3.8 LBAE/GAL | SL        |           | 16 fl oz/a    | A         |           | 9.325 ml/mx            |       |       |       |       |
|         | SCEPTER            | 70 %W/W      | DF        |           | 2.1 oz/a      | A         |           | 1.173 g/mx             |       |       |       |       |
|         | DUAL II MAGNUM     | 7.64 LB/GAL  | L         |           | 20 fl oz/a    | A         |           | 11.66 ml/mx            |       |       |       |       |
|         | COC                | 100 %        | SL        |           | 1 % v/v       | A         |           | 11.19 ml/mx            |       |       |       |       |
|         | N-PAK              | 3.4 LBA/GAL  | L         |           | 2.5 % v/v     | A         |           | 27.97 ml/mx            |       |       |       |       |
| 5       | ROUNDUP POWERMAX   | 4.5 LBAE/GAL | SL        |           | 28.44 fl oz/a | A         |           | 16.58 ml/mx            | 105   | 303   | 404   | 510   |
|         | SHREDDER 2,4-D LV4 | 3.8 LBAE/GAL | SL        |           | 16 fl oz/a    | A         |           | 9.325 ml/mx            |       |       |       |       |
|         | SCEPTER            | 70 %W/W      | DF        |           | 2.1 oz/a      | A         |           | 1.173 g/mx             |       |       |       |       |
|         | DUAL II MAGNUM     | 7.64 LB/GAL  | L         |           | 20 fl oz/a    | A         |           | 11.66 ml/mx            |       |       |       |       |
|         | TRICOR             | 75 %         | DF        |           | 0.372 lb/a    | A         |           | 3.325 g/mx             |       |       |       |       |
|         | COC                | 100 %        | SL        |           | 1 % v/v       | A         |           | 11.19 ml/mx            |       |       |       |       |
|         | N-PAK              | 3.4 LBA/GAL  | L         |           | 2.5 % v/v     | A         |           | 27.97 ml/mx            |       |       |       |       |
| 6       | ROUNDUP POWERMAX   | 4.5 LBAE/GAL | SL        |           | 28.44 fl oz/a | A         |           | 16.58 ml/mx            | 106   | 302   | 309   | 504   |
|         | SHREDDER 2,4-D LV4 | 3.8 LBAE/GAL | SL        |           | 16 fl oz/a    | A         |           | 9.325 ml/mx            |       |       |       |       |
|         | VALOR SX           | 51 %         | WG        |           | 2.53 oz/a     | A         |           | 1.413 g/mx             |       |       |       |       |
|         | COC                | 100 %        | SL        |           | 1 % v/v       | A         |           | 11.19 ml/mx            |       |       |       |       |
|         | N-PAK              | 3.4 LBA/GAL  | L         |           | 2.5 % v/v     | A         |           | 27.97 ml/mx            |       |       |       |       |
| 7       | ROUNDUP POWERMAX   | 4.5 LBAE/GAL | SL        |           | 28.44 fl oz/a | A         |           | 16.58 ml/mx            | 107   | 206   | 401   | 413   |
|         | SHREDDER 2,4-D LV4 | 3.8 LBAE/GAL | SL        |           | 16 fl oz/a    | A         |           | 9.325 ml/mx            |       |       |       |       |
|         | VALOR SX           | 51 %         | WG        |           | 2.53 oz/a     | A         |           | 1.413 g/mx             |       |       |       |       |
|         | SCEPTER            | 70 %W/W      | DF        |           | 2.1 oz/a      | A         |           | 1.173 g/mx             |       |       |       |       |
|         | COC                | 100 %        | SL        |           | 1 % v/v       | A         |           | 11.19 ml/mx            |       |       |       |       |
|         | N-PAK              | 3.4 LBA/GAL  | L         |           | 2.5 % v/v     | A         |           | 27.97 ml/mx            |       |       |       |       |
| 8       | ROUNDUP POWERMAX   | 4.5 LBAE/GAL | SL        |           | 28.44 fl oz/a | A         |           | 16.58 ml/mx            | 108   | 207   | 313   | 410   |
|         | SHREDDER 2,4-D LV4 | 3.8 LBAE/GAL | SL        |           | 16 fl oz/a    | A         |           | 9.325 ml/mx            |       |       |       |       |
|         | ENVIVE @ 2.5 OZ    |              |           |           |               |           |           |                        |       |       |       |       |
|         | VALOR SX           | 51 %         | WG        |           | 1.43 oz/a     | A         |           | 0.7989 g/mx            |       |       |       |       |
|         | CLASSIC            | 25 %         | WG        |           | 0.92 oz/a     | A         |           | 0.514 g/mx             |       |       |       |       |
|         | HARMONY SG         | 50 %         | SG        |           | 0.145 oz/a    | A         |           | .08101 g/mx            |       |       |       |       |
|         | COC                | 100 %        | SL        |           | 1 % v/v       | A         |           | 11.19 ml/mx            |       |       |       |       |
|         | N-PAK              | 3.4 LBA/GAL  | L         |           | 2.5 % v/v     | A         |           | 27.97 ml/mx            |       |       |       |       |
| 9       | ROUNDUP POWERMAX   | 4.5 LBAE/GAL | SL        |           | 28.44 fl oz/a | A         |           | 16.58 ml/mx            | 109   | 210   | 409   | 411   |
|         | SHREDDER 2,4-D LV4 | 3.8 LBAE/GAL | SL        |           | 16 fl oz/a    | A         |           | 9.325 ml/mx            |       |       |       |       |
|         | VALOR SX           | 51 %         | WG        |           | 2.53 oz/a     | A         |           | 1.413 g/mx             |       |       |       |       |
|         | SCEPTER            | 70 %W/W      | DF        |           | 2.1 oz/a      | A         |           | 1.173 g/mx             |       |       |       |       |
|         | TRICOR             | 75 %         | DF        |           | 0.372 lb/a    | A         |           | 3.325 g/mx             |       |       |       |       |
|         | COC                | 100 %        | SL        |           | 1 % v/v       | A         |           | 11.19 ml/mx            |       |       |       |       |
|         | N-PAK              | 3.4 LBA/GAL  | L         |           | 2.5 % v/v     | A         |           | 27.97 ml/mx            |       |       |       |       |

| Trt No. | Treatment Name     | Form Conc | Form Unit | Form Type | Rate      | Rate Unit  | Appl Code   | Amt Product to Measure | Rep 1 | 2   | 3   | 4   |
|---------|--------------------|-----------|-----------|-----------|-----------|------------|-------------|------------------------|-------|-----|-----|-----|
| 10      | ROUNDUP POWERMAX   | 4.5       | LBAE/GAL  | SL        | 28.44     | fl oz/a    | A           | 16.58 ml/mx            | 110   | 204 | 402 | 505 |
|         | SHREDDER 2,4-D LV4 | 3.8       | LBAE/GAL  | SL        |           | 16 fl oz/a | A           | 9.325 ml/mx            |       |     |     |     |
|         | VALOR SX           | 51        | %         | WG        | 2.53      | oz/a       | A           | 1.413 g/mx             |       |     |     |     |
|         | DUAL II MAGNUM     | 7.64      | LB/GAL    | L         |           | 20 fl oz/a | A           | 11.66 ml/mx            |       |     |     |     |
|         | COC                | 100       | %         | SL        |           | 1 % v/v    | A           | 11.19 ml/mx            |       |     |     |     |
|         | N-PAK              | 3.4       | LBA/GAL   | L         |           | 2.5 % v/v  | A           | 27.97 ml/mx            |       |     |     |     |
| 11      | ROUNDUP POWERMAX   | 4.5       | LBAE/GAL  | SL        | 28.44     | fl oz/a    | A           | 16.58 ml/mx            | 111   | 305 | 403 | 507 |
|         | SHREDDER 2,4-D LV4 | 3.8       | LBAE/GAL  | SL        |           | 16 fl oz/a | A           | 9.325 ml/mx            |       |     |     |     |
|         | VALOR SX           | 51        | %         | WG        | 2.53      | oz/a       | A           | 1.413 g/mx             |       |     |     |     |
|         | DUAL II MAGNUM     | 7.64      | LB/GAL    | L         |           | 20 fl oz/a | A           | 11.66 ml/mx            |       |     |     |     |
|         | SCEPTER            | 70        | %W/W      | DF        | 2.1       | oz/a       | A           | 1.173 g/mx             |       |     |     |     |
|         | COC                | 100       | %         | SL        |           | 1 % v/v    | A           | 11.19 ml/mx            |       |     |     |     |
|         | N-PAK              | 3.4       | LBA/GAL   | L         |           | 2.5 % v/v  | A           | 27.97 ml/mx            |       |     |     |     |
| 12      | ROUNDUP POWERMAX   | 4.5       | LBAE/GAL  | SL        | 28.44     | fl oz/a    | A           | 16.58 ml/mx            | 112   | 205 | 405 | 412 |
|         | SHREDDER 2,4-D LV4 | 3.8       | LBAE/GAL  | SL        |           | 16 fl oz/a | A           | 9.325 ml/mx            |       |     |     |     |
|         | TRIVENCE @ 10 OZ   |           |           |           |           |            |             |                        |       |     |     |     |
|         | CLASSIC            | 25        | %         | WG        | 1.56      | oz/a       | A           | 0.8716 g/mx            |       |     |     |     |
|         | VALOR SX           | 51        | %         | WG        | 2.51      | oz/a       | A           | 1.402 g/mx             |       |     |     |     |
|         | TRICOR             | 75        | %         | DF        | 5.95      | oz/a       | A           | 3.324 g/mx             |       |     |     |     |
|         | COC                | 100       | %         | SL        |           | 1 % v/v    | A           | 11.19 ml/mx            |       |     |     |     |
| N-PAK   | 3.4                | LBA/GAL   | L         |           | 2.5 % v/v | A          | 27.97 ml/mx |                        |       |     |     |     |
| 13      | ROUNDUP POWERMAX   | 4.5       | LBAE/GAL  | SL        | 28.44     | fl oz/a    | A           | 16.58 ml/mx            | 113   | 304 | 307 | 511 |
|         | SHREDDER 2,4-D LV4 | 3.8       | LBAE/GAL  | SL        |           | 16 fl oz/a | A           | 9.325 ml/mx            |       |     |     |     |
|         | SPARTAN            | 4         | LB/GAL    | SC        |           | 8 fl oz/a  | A           | 4.662 ml/mx            |       |     |     |     |
|         | COC                | 100       | %         | SL        |           | 1 % v/v    | A           | 11.19 ml/mx            |       |     |     |     |
|         | N-PAK              | 3.4       | LBA/GAL   | L         |           | 2.5 % v/v  | A           | 27.97 ml/mx            |       |     |     |     |
| 14      | ROUNDUP POWERMAX   | 4.5       | LBAE/GAL  | SL        | 28.44     | fl oz/a    | A           | 16.58 ml/mx            | 201   | 209 | 407 | 506 |
|         | SHREDDER 2,4-D LV4 | 3.8       | LBAE/GAL  | SL        |           | 16 fl oz/a | A           | 9.325 ml/mx            |       |     |     |     |
|         | AUTHORITY ELITE    | 7         | LB/GAL    | EC        |           | 24 fl oz/a | A           | 13.99 ml/mx            |       |     |     |     |
|         | COC                | 100       | %         | SL        |           | 1 % v/v    | A           | 11.19 ml/mx            |       |     |     |     |
|         | N-PAK              | 3.4       | LBA/GAL   | L         |           | 2.5 % v/v  | A           | 27.97 ml/mx            |       |     |     |     |
| 15      | ROUNDUP POWERMAX   | 4.5       | LBAE/GAL  | SL        | 28.44     | fl oz/a    | A           | 16.58 ml/mx            | 202   | 211 | 408 | 503 |
|         | SHREDDER 2,4-D LV4 | 3.8       | LBAE/GAL  | SL        |           | 16 fl oz/a | A           | 9.325 ml/mx            |       |     |     |     |
|         | AUTHORITY ELITE    | 7         | LB/GAL    | EC        |           | 24 fl oz/a | A           | 13.99 ml/mx            |       |     |     |     |
|         | SCEPTER            | 70        | %W/W      | DF        | 2.1       | oz/a       | A           | 1.173 g/mx             |       |     |     |     |
|         | COC                | 100       | %         | SL        |           | 1 % v/v    | A           | 11.19 ml/mx            |       |     |     |     |
|         | N-PAK              | 3.4       | LBA/GAL   | L         |           | 2.5 % v/v  | A           | 27.97 ml/mx            |       |     |     |     |
| 16      | ROUNDUP POWERMAX   | 4.5       | LBAE/GAL  | SL        | 28.44     | fl oz/a    | A           | 16.58 ml/mx            | 203   | 301 | 308 | 509 |
|         | SHREDDER 2,4-D LV4 | 3.8       | LBAE/GAL  | SL        |           | 16 fl oz/a | A           | 9.325 ml/mx            |       |     |     |     |
|         | AUTHORITY ELITE    | 7         | LB/GAL    | EC        |           | 24 fl oz/a | A           | 13.99 ml/mx            |       |     |     |     |
|         | SCEPTER            | 70        | %W/W      | DF        | 2.1       | oz/a       | A           | 1.173 g/mx             |       |     |     |     |
|         | TRICOR             | 75        | %         | DF        | 0.372     | lb/a       | A           | 3.325 g/mx             |       |     |     |     |
|         | COC                | 100       | %         | SL        |           | 1 % v/v    | A           | 11.19 ml/mx            |       |     |     |     |
|         | N-PAK              | 3.4       | LBA/GAL   | L         |           | 2.5 % v/v  | A           | 27.97 ml/mx            |       |     |     |     |

Sort Order: Replicate 1

# Purdue Weed Science

## SCEPTER TANK MIXTURES FOR EARLY PREPLANT IN NO-TILL SOYBEANS

|   |                                 |                  |
|---|---------------------------------|------------------|
| Trial ID: 17S-CORT-Soy-04                 | Location: Cortland              | Trial Year: 2017 |
| Protocol ID: 17S-CORT-Soy-04              | Investigator: Dr. Bill Johnson  |                  |
| Project ID: 17C05H044XIN517               | Study Director: Taylor Campbell |                  |
| Sponsor Contact: AMVAC - Joseph Argentine |                                 |                  |

| Pest Type                          | W Weed          | W Weed          |             |
|------------------------------------|-----------------|-----------------|-------------|
| Pest Code                          | ERICA           | ERICA           |             |
| Pest Name                          | Canada horsewe> | Canada horsewe> |             |
| Crop Code                          |                 |                 | GLXMA       |
| Crop Name                          |                 |                 | Soybean     |
| Rating Date                        | 5/26/2017       | 6/8/2017        | 6/8/2017    |
| Rating Type                        | CONTRO          | CONTRO          | PHYGEN      |
| Rating Unit                        | %               | %               | %           |
| Number of Subsamples               | 1               | 1               | 1           |
| Assessed By                        | T. Campbell     | T. Campbell     | T. Campbell |
| Days After First/Last Applic.      | 9 9             | 22 22           | 22 22       |
| Trt-Eval Interval                  | 9 DA-A          | 9 DA-A          | 22 DA-A     |
| Days After Emergence               | -9 DE-1         | 4 DE-1          | 4 DE-1      |
| ARM Action Codes                   | P               | P               | P           |
| Number of Decimals                 | 0               | 0               | 0           |
| Trt Treatment                      | Rate            | Appl            |             |
| No. Name                           | Rate Unit       | Code Plot       |             |
|                                    |                 | 1               | 2           |
|                                    |                 | 3               |             |
| 1 UNTREATED CONTROL                |                 | 101             | 0*          |
|                                    |                 | 208             | 0           |
|                                    |                 | 310             | 0           |
|                                    |                 | 501             | 0           |
|                                    |                 | Mean =          | 0           |
| 2 ROUNDUP POWERMAX 28.44 fl oz/a A |                 | 102             | 34*         |
| SHREDDER 2,4-D LV4 16 fl oz/a A    |                 | 212             | 20          |
| COC 1 % v/v A                      |                 | 406             | 20          |
| N-PAK 2.5 % v/v A                  |                 | 508             | 30          |
|                                    |                 | Mean =          | 26          |
| 3 ROUNDUP POWERMAX 28.44 fl oz/a A |                 | 103             | 50          |
| SHREDDER 2,4-D LV4 16 fl oz/a A    |                 | 306             | 5           |
| SCEPTER 2.1 oz/a A                 |                 | 311             | 5           |
| COC 1 % v/v A                      |                 | 512             | 5           |
| N-PAK 2.5 % v/v A                  |                 | Mean =          | 16          |
| 4 ROUNDUP POWERMAX 28.44 fl oz/a A |                 | 104             | 70          |
| SHREDDER 2,4-D LV4 16 fl oz/a A    |                 | 213             | 20          |
| SCEPTER 2.1 oz/a A                 |                 | 312             | 10          |
| DUAL II MAGNUM 20 fl oz/a A        |                 | 502             | 40          |
| COC 1 % v/v A                      |                 | Mean =          | 35          |
| N-PAK 2.5 % v/v A                  |                 | Mean =          | 53          |
| 5 ROUNDUP POWERMAX 28.44 fl oz/a A |                 | 105             | 85          |
| SHREDDER 2,4-D LV4 16 fl oz/a A    |                 | 303             | 70          |
| SCEPTER 2.1 oz/a A                 |                 | 404             | 80          |
| DUAL II MAGNUM 20 fl oz/a A        |                 | 510             | 80          |
| TRICOR 0.372 lb/a A                |                 | Mean =          | 79          |
| COC 1 % v/v A                      |                 | Mean =          | 86          |
| N-PAK 2.5 % v/v A                  |                 | Mean =          | 0           |
| 6 ROUNDUP POWERMAX 28.44 fl oz/a A |                 | 106             | 70          |
| SHREDDER 2,4-D LV4 16 fl oz/a A    |                 | 302             | 20          |
| VALOR SX 2.53 oz/a A               |                 | 309             | 10          |
| COC 1 % v/v A                      |                 | 504             | 30          |
| N-PAK 2.5 % v/v A                  |                 | Mean =          | 33          |
|                                    |                 | Mean =          | 43          |

| Pest Type                     | W Weed          | W Weed          |             |
|-------------------------------|-----------------|-----------------|-------------|
| Pest Code                     | ERICA           | ERICA           |             |
| Pest Name                     | Canada horsewe> | Canada horsewe> |             |
| Crop Code                     |                 |                 | GLXMA       |
| Crop Name                     |                 |                 | Soybean     |
| Rating Date                   | 5/26/2017       | 6/8/2017        | 6/8/2017    |
| Rating Type                   | CONTRO          | CONTRO          | PHYGEN      |
| Rating Unit                   | %               | %               | %           |
| Number of Subsamples          | 1               | 1               | 1           |
| Assessed By                   | T. Campbell     | T. Campbell     | T. Campbell |
| Days After First/Last Applic. | 9 9             | 22 22           | 22 22       |
| Trt-Eval Interval             | 9 DA-A          | 9 DA-A          | 22 DA-A     |
| Days After Emergence          | -9 DE-1         | 4 DE-1          | 4 DE-1      |
| ARM Action Codes              | P               | P               | P           |
| Number of Decimals            | 0               | 0               | 0           |
| Trt Treatment                 | Rate            | Appl            |             |
| No. Name                      | Rate Unit       | Code Plot       |             |
|                               |                 |                 | 1 2 3       |
| 7 ROUNDUP POWERMAX            | 28.44 fl oz/a A | 107             | 60 70 0     |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    | 206             | 65 75 0     |
| VALOR SX                      | 2.53 oz/a A     | 401             | 20 20 0     |
| SCEPTER                       | 2.1 oz/a A      | 413             | 40 20 0     |
| COC                           | 1 % v/v A       |                 |             |
| N-PAK                         | 2.5 % v/v A     |                 |             |
|                               | Mean =          |                 | 46 46 0     |
| 8 ROUNDUP POWERMAX            | 28.44 fl oz/a A | 108             | 40 75 0     |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    | 207             | 60 70 0     |
| ENVIVE @ 2.5 OZ               |                 | 313             | 20 20 0     |
| VALOR SX                      | 1.43 oz/a A     | 410             | 30 50 0     |
| CLASSIC                       | 0.92 oz/a A     |                 |             |
| HARMONY SG                    | 0.145 oz/a A    |                 |             |
| COC                           | 1 % v/v A       |                 |             |
| N-PAK                         | 2.5 % v/v A     |                 |             |
|                               | Mean =          |                 | 38 54 0     |
| 9 ROUNDUP POWERMAX            | 28.44 fl oz/a A | 109             | 85 90 0     |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    | 210             | 85 85 0     |
| VALOR SX                      | 2.53 oz/a A     | 409             | 70 75 0     |
| SCEPTER                       | 2.1 oz/a A      | 411             | 60 85 0     |
| TRICOR                        | 0.372 lb/a A    |                 |             |
| COC                           | 1 % v/v A       |                 |             |
| N-PAK                         | 2.5 % v/v A     |                 |             |
|                               | Mean =          |                 | 75 84 0     |
| 10 ROUNDUP POWERMAX           | 28.44 fl oz/a A | 110             | 10 50 0     |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    | 204             | 85 80 0     |
| VALOR SX                      | 2.53 oz/a A     | 402             | 20 50 0     |
| DUAL II MAGNUM                | 20 fl oz/a A    | 505             | 40 40 0     |
| COC                           | 1 % v/v A       |                 |             |
| N-PAK                         | 2.5 % v/v A     |                 |             |
|                               | Mean =          |                 | 39 55 0     |
| 11 ROUNDUP POWERMAX           | 28.44 fl oz/a A | 111             | 20 30 0     |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    | 305             | 40 30 0     |
| VALOR SX                      | 2.53 oz/a A     | 403             | 50 50 0     |
| DUAL II MAGNUM                | 20 fl oz/a A    | 507             | 60 65 0     |
| SCEPTER                       | 2.1 oz/a A      |                 |             |
| COC                           | 1 % v/v A       |                 |             |
| N-PAK                         | 2.5 % v/v A     |                 |             |
|                               | Mean =          |                 | 43 44 0     |
| 12 ROUNDUP POWERMAX           | 28.44 fl oz/a A | 112             | 50 60 0     |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    | 205             | 95 95 0     |
| TRIVENCE @ 10 OZ              |                 | 405             | 85 80 0     |
| CLASSIC                       | 1.56 oz/a A     | 412             | 65 80 0     |
| VALOR SX                      | 2.51 oz/a A     |                 |             |
| TRICOR                        | 5.95 oz/a A     |                 |             |
| COC                           | 1 % v/v A       |                 |             |
| N-PAK                         | 2.5 % v/v A     |                 |             |
|                               | Mean =          |                 | 74 79 0     |

|                               |                 |                 |                 |             |
|-------------------------------|-----------------|-----------------|-----------------|-------------|
| Pest Type                     |                 | W Weed          | W Weed          |             |
| Pest Code                     |                 | ERICA           | ERICA           |             |
| Pest Name                     |                 | Canada horsewe> | Canada horsewe> |             |
| Crop Code                     |                 |                 |                 | GLXMA       |
| Crop Name                     |                 |                 |                 | Soybean     |
| Rating Date                   |                 | 5/26/2017       | 6/8/2017        | 6/8/2017    |
| Rating Type                   |                 | CONTRO          | CONTRO          | PHYGEN      |
| Rating Unit                   |                 | %               | %               | %           |
| Number of Subsamples          |                 | 1               | 1               | 1           |
| Assessed By                   |                 | T. Campbell     | T. Campbell     | T. Campbell |
| Days After First/Last Applic. |                 | 9 9             | 22 22           | 22 22       |
| Trt-Eval Interval             |                 | 9 DA-A          | 9 DA-A          | 22 DA-A     |
| Days After Emergence          |                 | -9 DE-1         | 4 DE-1          | 4 DE-1      |
| ARM Action Codes              |                 | P               | P               | P           |
| Number of Decimals            |                 | 0               | 0               | 0           |
| Trt Treatment                 | Rate            | Appl            |                 |             |
| No. Name                      | Rate Unit       | Code Plot       | 1               | 2           |
|                               |                 |                 |                 | 3           |
| 13 ROUNDUP POWERMAX           | 28.44 fl oz/a A | 113             | 40              | 30          |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    | 304             | 20              | 30          |
| SPARTAN                       | 8 fl oz/a A     | 307             | 10              | 30          |
| COC                           | 1 % v/v A       | 511             | 60              | 70          |
| N-PAK                         | 2.5 % v/v A     |                 |                 |             |
|                               | Mean =          |                 | 33              | 40          |
| 14 ROUNDUP POWERMAX           | 28.44 fl oz/a A | 201             | 80              | 80          |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    | 209             | 40              | 50          |
| AUTHORITY ELITE               | 24 fl oz/a A    | 407             | 50              | 60          |
| COC                           | 1 % v/v A       | 506             | 20              | 60          |
| N-PAK                         | 2.5 % v/v A     |                 |                 |             |
|                               | Mean =          |                 | 48              | 63          |
| 15 ROUNDUP POWERMAX           | 28.44 fl oz/a A | 202             | 38*             | 61*         |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    | 211             | 20              | 40          |
| AUTHORITY ELITE               | 24 fl oz/a A    | 408             | 40              | 50          |
| SCEPTER                       | 2.1 oz/a A      | 503             | 20              | 50          |
| COC                           | 1 % v/v A       |                 |                 |             |
| N-PAK                         | 2.5 % v/v A     |                 |                 |             |
|                               | Mean =          |                 | 29              | 50          |
| 16 ROUNDUP POWERMAX           | 28.44 fl oz/a A | 203             | 85              | 90          |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    | 301             | 80              | 80          |
| AUTHORITY ELITE               | 24 fl oz/a A    | 308             | 40              | 65          |
| SCEPTER                       | 2.1 oz/a A      | 509             | 85              | 85          |
| TRICOR                        | 0.372 lb/a A    |                 |                 |             |
| COC                           | 1 % v/v A       |                 |                 |             |
| N-PAK                         | 2.5 % v/v A     |                 |                 |             |
|                               | Mean =          |                 | 73              | 80          |

| Pest Type                          | W Weed                   |             | W Weed          |             |
|------------------------------------|--------------------------|-------------|-----------------|-------------|
| Pest Code                          | ERICA                    |             | ERICA           |             |
| Pest Name                          | Canada horsewe>          |             | Canada horsewe> |             |
| Crop Code                          |                          | GLXMA       |                 | GLXMA       |
| Crop Name                          |                          | Soybean     |                 | Soybean     |
| Rating Date                        | 6/22/2017                | 6/22/2017   | 7/7/2017        | 7/7/2017    |
| Rating Type                        | CONTRO                   | PHYGEN      | CONTRO          | PHYGEN      |
| Rating Unit                        | %                        | %           | %               | %           |
| Number of Subsamples               | 1                        | 1           | 1               | 1           |
| Assessed By                        | T. Campbell              | T. Campbell | T. Campbell     | T. Campbell |
| Days After First/Last Applic.      | 36 36                    | 36 36       | 51 51           | 51 51       |
| Trt-Eval Interval                  | 36 DA-A                  | 36 DA-A     | 36 DA-A         | 36 DA-A     |
| Days After Emergence               | 18 DE-1                  | 18 DE-1     | 33 DE-1         | 33 DE-1     |
| ARM Action Codes                   | P                        | P           | P               | P           |
| Number of Decimals                 | 0                        | 0           | 0               | 0           |
| Trt Treatment                      |                          |             |                 |             |
| No. Name                           | Rate Unit Appl Code Plot | 4           | 5               | 6           |
| 1 UNTREATED CONTROL                | 101                      | 0           | 0               | 0           |
|                                    | 208                      | 0           | 0               | 0           |
|                                    | 310                      | 0           | 0               | 0           |
|                                    | 501                      | 0           | 0               | 0           |
|                                    | Mean =                   | 0           | 0               | 0           |
| 2 ROUNDUP POWERMAX 28.44 fl oz/a A | 102                      | 63*         | 0*              | 55*         |
| SHREDDER 2,4-D LV4 16 fl oz/a A    | 212                      | 20          | 0               | 20          |
| COC 1 % v/v A                      | 406                      | 50          | 0               | 50          |
| N-PAK 2.5 % v/v A                  | 508                      | 60          | 0               | 25          |
|                                    | Mean =                   | 48          | 0               | 37          |
| 3 ROUNDUP POWERMAX 28.44 fl oz/a A | 103                      | 70          | 0               | 75          |
| SHREDDER 2,4-D LV4 16 fl oz/a A    | 306                      | 20          | 0               | 5           |
| SCEPTER 2.1 oz/a A                 | 311                      | 20          | 0               | 20          |
| COC 1 % v/v A                      | 512                      | 20          | 0               | 20          |
| N-PAK 2.5 % v/v A                  |                          |             |                 |             |
|                                    | Mean =                   | 33          | 0               | 30          |
| 4 ROUNDUP POWERMAX 28.44 fl oz/a A | 104                      | 90          | 0               | 90          |
| SHREDDER 2,4-D LV4 16 fl oz/a A    | 213                      | 20          | 0               | 10          |
| SCEPTER 2.1 oz/a A                 | 312                      | 60          | 0               | 45          |
| DUAL II MAGNUM 20 fl oz/a A        | 502                      | 50          | 0               | 45          |
| COC 1 % v/v A                      |                          |             |                 |             |
| N-PAK 2.5 % v/v A                  |                          |             |                 |             |
|                                    | Mean =                   | 55          | 0               | 48          |
| 5 ROUNDUP POWERMAX 28.44 fl oz/a A | 105                      | 100         | 0               | 100         |
| SHREDDER 2,4-D LV4 16 fl oz/a A    | 303                      | 80          | 0               | 75          |
| SCEPTER 2.1 oz/a A                 | 404                      | 75          | 0               | 70          |
| DUAL II MAGNUM 20 fl oz/a A        | 510                      | 80          | 0               | 75          |
| TRICOR 0.372 lb/a A                |                          |             |                 |             |
| COC 1 % v/v A                      |                          |             |                 |             |
| N-PAK 2.5 % v/v A                  |                          |             |                 |             |
|                                    | Mean =                   | 84          | 0               | 80          |
| 6 ROUNDUP POWERMAX 28.44 fl oz/a A | 106                      | 80          | 0               | 75          |
| SHREDDER 2,4-D LV4 16 fl oz/a A    | 302                      | 20          | 0               | 10          |
| VALOR SX 2.53 oz/a A               | 309                      | 5           | 0               | 5           |
| COC 1 % v/v A                      | 504                      | 20          | 0               | 10          |
| N-PAK 2.5 % v/v A                  |                          |             |                 |             |
|                                    | Mean =                   | 31          | 0               | 25          |



| Pest Type                     | W Weed |         | ERICA |        | Canada horsewe> |   | W Weed |   | ERICA |  | Canada horsewe> |  |
|-------------------------------|--------|---------|-------|--------|-----------------|---|--------|---|-------|--|-----------------|--|
| Pest Code                     |        |         |       |        |                 |   |        |   |       |  |                 |  |
| Pest Name                     |        |         |       |        |                 |   |        |   |       |  |                 |  |
| Crop Code                     |        |         |       |        |                 |   |        |   |       |  |                 |  |
| Crop Name                     |        |         |       |        |                 |   |        |   |       |  |                 |  |
| Rating Date                   |        |         |       |        |                 |   |        |   |       |  |                 |  |
| Rating Type                   |        |         |       |        |                 |   |        |   |       |  |                 |  |
| Rating Unit                   |        |         |       |        |                 |   |        |   |       |  |                 |  |
| Number of Subsamples          |        |         |       |        |                 |   |        |   |       |  |                 |  |
| Assessed By                   |        |         |       |        |                 |   |        |   |       |  |                 |  |
| Days After First/Last Applic. |        |         |       |        |                 |   |        |   |       |  |                 |  |
| Trt-Eval Interval             |        |         |       |        |                 |   |        |   |       |  |                 |  |
| Days After Emergence          |        |         |       |        |                 |   |        |   |       |  |                 |  |
| ARM Action Codes              |        |         |       |        |                 |   |        |   |       |  |                 |  |
| Number of Decimals            |        |         |       |        |                 |   |        |   |       |  |                 |  |
| Trt Treatment                 | Rate   | Appl    |       |        |                 |   |        |   |       |  |                 |  |
| No. Name                      | Rate   | Unit    | Code  | Plot   | 4               | 5 | 6      | 7 |       |  |                 |  |
| 7 ROUNDUP POWERMAX            | 28.44  | fl oz/a | A     | 107    | 60              | 0 | 60     | 0 |       |  |                 |  |
| SHREDDER 2,4-D LV4            | 16     | fl oz/a | A     | 206    | 65              | 0 | 60     | 0 |       |  |                 |  |
| VALOR SX                      | 2.53   | oz/a    | A     | 401    | 20              | 0 | 5      | 0 |       |  |                 |  |
| SCEPTER                       | 2.1    | oz/a    | A     | 413    | 20              | 0 | 10     | 0 |       |  |                 |  |
| COC                           | 1      | % v/v   | A     |        |                 |   |        |   |       |  |                 |  |
| N-PAK                         | 2.5    | % v/v   | A     |        |                 |   |        |   |       |  |                 |  |
|                               |        |         |       | Mean = | 41              | 0 | 34     | 0 |       |  |                 |  |
| 8 ROUNDUP POWERMAX            | 28.44  | fl oz/a | A     | 108    | 65              | 0 | 65     | 0 |       |  |                 |  |
| SHREDDER 2,4-D LV4            | 16     | fl oz/a | A     | 207    | 60              | 0 | 50     | 0 |       |  |                 |  |
| ENVIVE @ 2.5 OZ               |        |         |       | 313    | 20              | 0 | 10     | 0 |       |  |                 |  |
| VALOR SX                      | 1.43   | oz/a    | A     | 410    | 20              | 0 | 10     | 0 |       |  |                 |  |
| CLASSIC                       | 0.92   | oz/a    | A     |        |                 |   |        |   |       |  |                 |  |
| HARMONY SG                    | 0.145  | oz/a    | A     |        |                 |   |        |   |       |  |                 |  |
| COC                           | 1      | % v/v   | A     |        |                 |   |        |   |       |  |                 |  |
| N-PAK                         | 2.5    | % v/v   | A     |        |                 |   |        |   |       |  |                 |  |
|                               |        |         |       | Mean = | 41              | 0 | 34     | 0 |       |  |                 |  |
| 9 ROUNDUP POWERMAX            | 28.44  | fl oz/a | A     | 109    | 85              | 0 | 85     | 0 |       |  |                 |  |
| SHREDDER 2,4-D LV4            | 16     | fl oz/a | A     | 210    | 80              | 0 | 70     | 0 |       |  |                 |  |
| VALOR SX                      | 2.53   | oz/a    | A     | 409    | 70              | 0 | 70     | 0 |       |  |                 |  |
| SCEPTER                       | 2.1    | oz/a    | A     | 411    | 80              | 0 | 75     | 0 |       |  |                 |  |
| TRICOR                        | 0.372  | lb/a    | A     |        |                 |   |        |   |       |  |                 |  |
| COC                           | 1      | % v/v   | A     |        |                 |   |        |   |       |  |                 |  |
| N-PAK                         | 2.5    | % v/v   | A     |        |                 |   |        |   |       |  |                 |  |
|                               |        |         |       | Mean = | 79              | 0 | 75     | 0 |       |  |                 |  |
| 10 ROUNDUP POWERMAX           | 28.44  | fl oz/a | A     | 110    | 40              | 0 | 20     | 0 |       |  |                 |  |
| SHREDDER 2,4-D LV4            | 16     | fl oz/a | A     | 204    | 80              | 0 | 80     | 0 |       |  |                 |  |
| VALOR SX                      | 2.53   | oz/a    | A     | 402    | 30              | 0 | 20     | 0 |       |  |                 |  |
| DUAL II MAGNUM                | 20     | fl oz/a | A     | 505    | 20              | 0 | 10     | 0 |       |  |                 |  |
| COC                           | 1      | % v/v   | A     |        |                 |   |        |   |       |  |                 |  |
| N-PAK                         | 2.5    | % v/v   | A     |        |                 |   |        |   |       |  |                 |  |
|                               |        |         |       | Mean = | 43              | 0 | 33     | 0 |       |  |                 |  |
| 11 ROUNDUP POWERMAX           | 28.44  | fl oz/a | A     | 111    | 40              | 0 | 20     | 0 |       |  |                 |  |
| SHREDDER 2,4-D LV4            | 16     | fl oz/a | A     | 305    | 20              | 0 | 10     | 0 |       |  |                 |  |
| VALOR SX                      | 2.53   | oz/a    | A     | 403    | 20              | 0 | 5      | 0 |       |  |                 |  |
| DUAL II MAGNUM                | 20     | fl oz/a | A     | 507    | 40              | 0 | 20     | 0 |       |  |                 |  |
| SCEPTER                       | 2.1    | oz/a    | A     |        |                 |   |        |   |       |  |                 |  |
| COC                           | 1      | % v/v   | A     |        |                 |   |        |   |       |  |                 |  |
| N-PAK                         | 2.5    | % v/v   | A     |        |                 |   |        |   |       |  |                 |  |
|                               |        |         |       | Mean = | 30              | 0 | 14     | 0 |       |  |                 |  |
| 12 ROUNDUP POWERMAX           | 28.44  | fl oz/a | A     | 112    | 60              | 0 | 60     | 0 |       |  |                 |  |
| SHREDDER 2,4-D LV4            | 16     | fl oz/a | A     | 205    | 95              | 0 | 95     | 0 |       |  |                 |  |
| TRIVENCE @ 10 OZ              |        |         |       | 405    | 85              | 0 | 85     | 0 |       |  |                 |  |
| CLASSIC                       | 1.56   | oz/a    | A     | 412    | 85              | 0 | 85     | 0 |       |  |                 |  |
| VALOR SX                      | 2.51   | oz/a    | A     |        |                 |   |        |   |       |  |                 |  |
| TRICOR                        | 5.95   | oz/a    | A     |        |                 |   |        |   |       |  |                 |  |
| COC                           | 1      | % v/v   | A     |        |                 |   |        |   |       |  |                 |  |
| N-PAK                         | 2.5    | % v/v   | A     |        |                 |   |        |   |       |  |                 |  |
|                               |        |         |       | Mean = | 81              | 0 | 81     | 0 |       |  |                 |  |



# Purdue Weed Science

## SCEPTER TANK MIXTURES FOR EARLY PREPLANT IN NO-TILL SOYBEANS

Trial ID: 17S-CORT-Soy-04      Location: Cortland      Trial Year: 2017  
Protocol ID: 17S-CORT-Soy-04      Investigator: Dr. Bill Johnson  
Project ID: 17C05H044XIN517      Study Director: Taylor Campbell  
Sponsor Contact: AMVAC - Joseph Argentine

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

ERICA, Erigeron canadensis, Canada horseweed = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Type

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

# Purdue Weed Science

## SCEPTER TANK MIXTURES FOR EARLY PREPLANT IN NO-TILL SOYBEANS

Trial ID: 17S-CORT-Soy-04      Location: Cortland      Trial Year: 2017  
 Protocol ID: 17S-CORT-Soy-04      Investigator: Dr. Bill Johnson  
 Project ID: 17C05H044XIN517      Study Director: Taylor Campbell  
 Sponsor Contact: AMVAC - Joseph Argentine

| Pest Type                          | W Weed          | W Weed          |             | W Weed          |
|------------------------------------|-----------------|-----------------|-------------|-----------------|
| Pest Code                          | ERICA           | ERICA           |             | ERICA           |
| Pest Name                          | Canada horsewe> | Canada horsewe> |             | Canada horsewe> |
| Crop Code                          |                 |                 | GLXMA       |                 |
| Crop Name                          |                 |                 | Soybean     |                 |
| Rating Date                        | 5/26/2017       | 6/8/2017        | 6/8/2017    | 6/22/2017       |
| Rating Type                        | CONTRO          | CONTRO          | PHYGEN      | CONTRO          |
| Rating Unit                        | %               | %               | %           | %               |
| Number of Subsamples               | 1               | 1               | 1           | 1               |
| Assessed By                        | T. Campbell     | T. Campbell     | T. Campbell | T. Campbell     |
| Days After First/Last Applic.      | 9 9             | 22 22           | 22 22       | 36 36           |
| Trt-Eval Interval                  | 9 DA-A          | 9 DA-A          | 22 DA-A     | 36 DA-A         |
| Days After Emergence               | -9 DE-1         | 4 DE-1          | 4 DE-1      | 18 DE-1         |
| ARM Action Codes                   | P               | P               | P           | P               |
| Number of Decimals                 | 0               | 0               | 0           | 0               |
| Trt Treatment                      | Rate            | Appl            |             |                 |
| No. Name                           | Rate Unit       | Code            | 1           | 2               |
| 1 UNTREATED CONTROL                |                 |                 | 0 d         | 0 d             |
| 2 ROUNDUP POWERMAX 28.44 fl oz/a A |                 |                 | 26 cd       | 54 abc          |
| SHREDDER 2,4-D LV4 16 fl oz/a A    |                 |                 |             |                 |
| COC 1 % v/v A                      |                 |                 |             |                 |
| N-PAK 2.5 % v/v A                  |                 |                 |             |                 |
| 3 ROUNDUP POWERMAX 28.44 fl oz/a A |                 |                 | 16 d        | 30 c            |
| SHREDDER 2,4-D LV4 16 fl oz/a A    |                 |                 |             |                 |
| SCEPTER 2.1 oz/a A                 |                 |                 |             |                 |
| COC 1 % v/v A                      |                 |                 |             |                 |
| N-PAK 2.5 % v/v A                  |                 |                 |             |                 |
| 4 ROUNDUP POWERMAX 28.44 fl oz/a A |                 |                 | 35 a-d      | 53 abc          |
| SHREDDER 2,4-D LV4 16 fl oz/a A    |                 |                 |             |                 |
| SCEPTER 2.1 oz/a A                 |                 |                 |             |                 |
| DUAL II MAGNUM 20 fl oz/a A        |                 |                 |             |                 |
| COC 1 % v/v A                      |                 |                 |             |                 |
| N-PAK 2.5 % v/v A                  |                 |                 |             |                 |
| 5 ROUNDUP POWERMAX 28.44 fl oz/a A |                 |                 | 79 a        | 86 a            |
| SHREDDER 2,4-D LV4 16 fl oz/a A    |                 |                 |             |                 |
| SCEPTER 2.1 oz/a A                 |                 |                 |             |                 |
| DUAL II MAGNUM 20 fl oz/a A        |                 |                 |             |                 |
| TRICOR 0.372 lb/a A                |                 |                 |             |                 |
| COC 1 % v/v A                      |                 |                 |             |                 |
| N-PAK 2.5 % v/v A                  |                 |                 |             |                 |
| 6 ROUNDUP POWERMAX 28.44 fl oz/a A |                 |                 | 33 a-d      | 43 abc          |
| SHREDDER 2,4-D LV4 16 fl oz/a A    |                 |                 |             |                 |
| VALOR SX 2.53 oz/a A               |                 |                 |             |                 |
| COC 1 % v/v A                      |                 |                 |             |                 |
| N-PAK 2.5 % v/v A                  |                 |                 |             |                 |
| 7 ROUNDUP POWERMAX 28.44 fl oz/a A |                 |                 | 46 a-d      | 46 abc          |
| SHREDDER 2,4-D LV4 16 fl oz/a A    |                 |                 |             |                 |
| VALOR SX 2.53 oz/a A               |                 |                 |             |                 |
| SCEPTER 2.1 oz/a A                 |                 |                 |             |                 |
| COC 1 % v/v A                      |                 |                 |             |                 |
| N-PAK 2.5 % v/v A                  |                 |                 |             |                 |

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
 Missing data estimates are included in columns: Yates=1,2,3,4,5,6,7  
 Could not calculate LSD (% mean diff) for columns 3,5,7 because error mean square = 0.

| Pest Type  | W Weed  | W Weed                               |             | W Weed          |     |       |
|--|---|--------------------------------------|-------------|-----------------|-----|-------|
| Pest Code  | ERICA   | ERICA                                |             | ERICA           |     |       |
| Pest Name  | Canada horsewe>   | Canada horsewe>                      |             | Canada horsewe> |     |       |
| Crop Code  |   |                                      | GLXMA       |                 |     |       |
| Crop Name  |   |                                      | Soybean     |                 |     |       |
| Rating Date  | 5/26/2017   | 6/8/2017                             | 6/8/2017    | 6/22/2017       |     |       |
| Rating Type  | CONTRO  | CONTRO                               | PHYGEN      | CONTRO          |     |       |
| Rating Unit  | %   | %                                    | %           | %               |     |       |
| Number of Subsamples   | 1   | 1                                    | 1           | 1               |     |       |
| Assessed By  | T. Campbell   | T. Campbell                          | T. Campbell | T. Campbell     |     |       |
| Days After First/Last Applic.  | 9 9   | 22 22                                | 22 22       | 36 36           |     |       |
| Trt-Eval Interval  | 9 DA-A  | 9 DA-A                               | 22 DA-A     | 36 DA-A         |     |       |
| Days After Emergence   | -9 DE-1   | 4 DE-1                               | 4 DE-1      | 18 DE-1         |     |       |
| ARM Action Codes   | P   | P                                    | P           | P               |     |       |
| Number of Decimals   | 0   | 0                                    | 0           | 0               |     |       |
| Trt Treatment  | Rate  | Appl                                 |             |                 |     |       |
| No. Name   | Rate  | Unit                                 | Code        |                 |     |       |
|  |   |                                      | 1           | 2               |     |       |
|  |   |                                      | 3           | 4               |     |       |
| 8 ROUNDUP POWERMAX<br>SHREDDER 2,4-D LV4<br>ENVIVE @ 2.5 OZ<br>VALOR SX<br>CLASSIC<br>HARMONY SG<br>COC<br>N-PAK | 28.44 fl oz/a<br>16 fl oz/a<br>1.43 oz/a<br>0.92 oz/a<br>0.145 oz/a<br>1 % v/v<br>2.5 % v/v | A<br>A<br>A<br>A<br>A<br>A<br>A<br>A | 38 a-d      | 54 abc          | 0 a | 41 bc |
| 9 ROUNDUP POWERMAX<br>SHREDDER 2,4-D LV4<br>VALOR SX<br>SCEPTER<br>TRICOR<br>COC<br>N-PAK                        | 28.44 fl oz/a<br>16 fl oz/a<br>2.53 oz/a<br>2.1 oz/a<br>0.372 lb/a<br>1 % v/v<br>2.5 % v/v  | A<br>A<br>A<br>A<br>A<br>A<br>A      | 75 ab       | 84 ab           | 0 a | 79 ab |
| 10 ROUNDUP POWERMAX<br>SHREDDER 2,4-D LV4<br>VALOR SX<br>DUAL II MAGNUM<br>COC<br>N-PAK                          | 28.44 fl oz/a<br>16 fl oz/a<br>2.53 oz/a<br>20 fl oz/a<br>1 % v/v<br>2.5 % v/v              | A<br>A<br>A<br>A<br>A<br>A           | 39 a-d      | 55 abc          | 0 a | 43 bc |
| 11 ROUNDUP POWERMAX<br>SHREDDER 2,4-D LV4<br>VALOR SX<br>DUAL II MAGNUM<br>SCEPTER<br>COC<br>N-PAK               | 28.44 fl oz/a<br>16 fl oz/a<br>2.53 oz/a<br>20 fl oz/a<br>2.1 oz/a<br>1 % v/v<br>2.5 % v/v  | A<br>A<br>A<br>A<br>A<br>A<br>A      | 43 a-d      | 44 abc          | 0 a | 30 cd |
| 12 ROUNDUP POWERMAX<br>SHREDDER 2,4-D LV4<br>TRIVENCE @ 10 OZ<br>CLASSIC<br>VALOR SX<br>TRICOR<br>COC<br>N-PAK   | 28.44 fl oz/a<br>16 fl oz/a<br>1.56 oz/a<br>2.51 oz/a<br>5.95 oz/a<br>1 % v/v<br>2.5 % v/v  | A<br>A<br>A<br>A<br>A<br>A<br>A      | 74 abc      | 79 ab           | 0 a | 81 ab |
| 13 ROUNDUP POWERMAX<br>SHREDDER 2,4-D LV4<br>SPARTAN<br>COC<br>N-PAK   | 28.44 fl oz/a<br>16 fl oz/a<br>8 fl oz/a<br>1 % v/v<br>2.5 % v/v                            | A<br>A<br>A<br>A<br>A                | 33 a-d      | 40 bc           | 0 a | 34 cd |

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Missing data estimates are included in columns: Yates=1,2,3,4,5,6,7  
Could not calculate LSD (% mean diff) for columns 3,5,7 because error mean square = 0.

|                               | W Weed<br>ERICA<br>Canada horsewe> | W Weed<br>ERICA<br>Canada horsewe> |             | W Weed<br>ERICA<br>Canada horsewe> |
|-------------------------------|------------------------------------|------------------------------------|-------------|------------------------------------|
| Pest Type                     |                                    |                                    |             |                                    |
| Pest Code                     |                                    |                                    |             |                                    |
| Pest Name                     |                                    |                                    |             |                                    |
| Crop Code                     |                                    |                                    | GLXMA       |                                    |
| Crop Name                     |                                    |                                    | Soybean     |                                    |
| Rating Date                   | 5/26/2017                          | 6/8/2017                           | 6/8/2017    | 6/22/2017                          |
| Rating Type                   | CONTRO                             | CONTRO                             | PHYGEN      | CONTRO                             |
| Rating Unit                   | %                                  | %                                  | %           | %                                  |
| Number of Subsamples          | 1                                  | 1                                  | 1           | 1                                  |
| Assessed By                   | T. Campbell                        | T. Campbell                        | T. Campbell | T. Campbell                        |
| Days After First/Last Applic. | 9 9                                | 22 22                              | 22 22       | 36 36                              |
| Trt-Eval Interval             | 9 DA-A                             | 9 DA-A                             | 22 DA-A     | 36 DA-A                            |
| Days After Emergence          | -9 DE-1                            | 4 DE-1                             | 4 DE-1      | 18 DE-1                            |
| ARM Action Codes              | P                                  | P                                  | P           | P                                  |
| Number of Decimals            | 0                                  | 0                                  | 0           | 0                                  |
| Trt Treatment                 | Rate Appl                          |                                    |             |                                    |
| No. Name                      | Rate Unit Code                     | 1                                  | 2           | 3                                  |
| 14 ROUNDUP POWERMAX           | 28.44 fl oz/a A                    | 48 a-d                             | 63 abc      | 0 a                                |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A                       |                                    |             | 41 bc                              |
| AUTHORITY ELITE               | 24 fl oz/a A                       |                                    |             |                                    |
| COC                           | 1 % v/v A                          |                                    |             |                                    |
| N-PAK                         | 2.5 % v/v A                        |                                    |             |                                    |
| 15 ROUNDUP POWERMAX           | 28.44 fl oz/a A                    | 29 bcd                             | 50 abc      | 0 a                                |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A                       |                                    |             | 38 c                               |
| AUTHORITY ELITE               | 24 fl oz/a A                       |                                    |             |                                    |
| SCEPTER                       | 2.1 oz/a A                         |                                    |             |                                    |
| COC                           | 1 % v/v A                          |                                    |             |                                    |
| N-PAK                         | 2.5 % v/v A                        |                                    |             |                                    |
| 16 ROUNDUP POWERMAX           | 28.44 fl oz/a A                    | 73 abc                             | 80 ab       | 0 a                                |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A                       |                                    |             | 80 ab                              |
| AUTHORITY ELITE               | 24 fl oz/a A                       |                                    |             |                                    |
| SCEPTER                       | 2.1 oz/a A                         |                                    |             |                                    |
| TRICOR                        | 0.372 lb/a A                       |                                    |             |                                    |
| COC                           | 1 % v/v A                          |                                    |             |                                    |
| N-PAK                         | 2.5 % v/v A                        |                                    |             |                                    |
| LSD P=.05                     | 27.8                               | 25.4                               | .           | 25.2                               |
| Standard Deviation            | 19.5                               | 17.8                               | 0.0         | 17.7                               |
| CV                            | 45.65                              | 33.22                              | 0.0         | 37.27                              |
| Bartlett's X2                 | 11.967                             | 17.351                             | 0.0         | 15.136                             |
| P(Bartlett's X2)              | 0.609                              | 0.238                              | .           | 0.369                              |
| Skewness                      | 0.1566                             | -0.3281                            | .           | 0.1093                             |
| Kurtosis                      | -1.26*                             | -1.0176                            | .           | -1.2625*                           |
| Replicate F                   | 2.376                              | 3.727                              | 0.000       | 5.360                              |
| Replicate Prob(F)             | 0.0832                             | 0.0181                             | 1.0000      | 0.0032                             |
| Treatment F                   | 5.257                              | 6.110                              | 0.000       | 6.833                              |
| Treatment Prob(F)             | 0.0001                             | 0.0001                             | 1.0000      | 0.0001                             |

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Missing data estimates are included in columns: Yates=1,2,3,4,5,6,7  
Could not calculate LSD (% mean diff) for columns 3,5,7 because error mean square = 0.

|                                    |                |                  |             |
|------------------------------------|----------------|------------------|-------------|
| Pest Type                          |                | W Weed           |             |
| Pest Code                          |                | ERICA            |             |
| Pest Name                          |                | Canada horsewee> |             |
| Crop Code                          | GLXMA          |                  | GLXMA       |
| Crop Name                          | Soybean        |                  | Soybean     |
| Rating Date                        | 6/22/2017      | 7/7/2017         | 7/7/2017    |
| Rating Type                        | PHYGEN         | CONTRO           | PHYGEN      |
| Rating Unit                        | %              | %                | %           |
| Number of Subsamples               | 1              | 1                | 1           |
| Assessed By                        | T. Campbell    | T. Campbell      | T. Campbell |
| Days After First/Last Applic.      | 36 36          | 51 51            | 51 51       |
| Trt-Eval Interval                  | 36 DA-A        | 36 DA-A          | 36 DA-A     |
| Days After Emergence               | 18 DE-1        | 33 DE-1          | 33 DE-1     |
| ARM Action Codes                   | P              | P                | P           |
| Number of Decimals                 | 0              | 0                | 0           |
| Trt Treatment                      | Rate           | Appl             |             |
| No. Name                           | Rate Unit Code | 5                | 6           |
| 1 UNTREATED CONTROL                |                | 0 a              | 0 b         |
| 2 ROUNDUP POWERMAX 28.44 fl oz/a A |                | 0 a              | 37 b        |
| SHREDDER 2,4-D LV4 16 fl oz/a A    |                |                  |             |
| COC 1 % v/v A                      |                |                  |             |
| N-PAK 2.5 % v/v A                  |                |                  |             |
| 3 ROUNDUP POWERMAX 28.44 fl oz/a A |                | 0 a              | 30 b        |
| SHREDDER 2,4-D LV4 16 fl oz/a A    |                |                  |             |
| SCEPTER 2.1 oz/a A                 |                |                  |             |
| COC 1 % v/v A                      |                |                  |             |
| N-PAK 2.5 % v/v A                  |                |                  |             |
| 4 ROUNDUP POWERMAX 28.44 fl oz/a A |                | 0 a              | 48 ab       |
| SHREDDER 2,4-D LV4 16 fl oz/a A    |                |                  |             |
| SCEPTER 2.1 oz/a A                 |                |                  |             |
| DUAL II MAGNUM 20 fl oz/a A        |                |                  |             |
| COC 1 % v/v A                      |                |                  |             |
| N-PAK 2.5 % v/v A                  |                |                  |             |
| 5 ROUNDUP POWERMAX 28.44 fl oz/a A |                | 0 a              | 80 a        |
| SHREDDER 2,4-D LV4 16 fl oz/a A    |                |                  |             |
| SCEPTER 2.1 oz/a A                 |                |                  |             |
| DUAL II MAGNUM 20 fl oz/a A        |                |                  |             |
| TRICOR 0.372 lb/a A                |                |                  |             |
| COC 1 % v/v A                      |                |                  |             |
| N-PAK 2.5 % v/v A                  |                |                  |             |
| 6 ROUNDUP POWERMAX 28.44 fl oz/a A |                | 0 a              | 25 b        |
| SHREDDER 2,4-D LV4 16 fl oz/a A    |                |                  |             |
| VALOR SX 2.53 oz/a A               |                |                  |             |
| COC 1 % v/v A                      |                |                  |             |
| N-PAK 2.5 % v/v A                  |                |                  |             |
| 7 ROUNDUP POWERMAX 28.44 fl oz/a A |                | 0 a              | 34 b        |
| SHREDDER 2,4-D LV4 16 fl oz/a A    |                |                  |             |
| VALOR SX 2.53 oz/a A               |                |                  |             |
| SCEPTER 2.1 oz/a A                 |                |                  |             |
| COC 1 % v/v A                      |                |                  |             |
| N-PAK 2.5 % v/v A                  |                |                  |             |

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Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
Missing data estimates are included in columns: Yates=1,2,3,4,5,6,7  
Could not calculate LSD (% mean diff) for columns 3,5,7 because error mean square = 0.

|                               |                 |                  |             |
|-------------------------------|-----------------|------------------|-------------|
| Pest Type                     |                 | W Weed           |             |
| Pest Code                     |                 | ERICA            |             |
| Pest Name                     |                 | Canada horsewee> |             |
| Crop Code                     | GLXMA           |                  | GLXMA       |
| Crop Name                     | Soybean         |                  | Soybean     |
| Rating Date                   | 6/22/2017       | 7/7/2017         | 7/7/2017    |
| Rating Type                   | PHYGEN          | CONTRO           | PHYGEN      |
| Rating Unit                   | %               | %                | %           |
| Number of Subsamples          | 1               | 1                | 1           |
| Assessed By                   | T. Campbell     | T. Campbell      | T. Campbell |
| Days After First/Last Applic. | 36 36           | 51 51            | 51 51       |
| Trt-Eval Interval             | 36 DA-A         | 36 DA-A          | 36 DA-A     |
| Days After Emergence          | 18 DE-1         | 33 DE-1          | 33 DE-1     |
| ARM Action Codes              | P               | P                | P           |
| Number of Decimals            | 0               | 0                | 0           |
| Trt Treatment                 | Rate Appl       |                  |             |
| No. Name                      | Rate Unit Code  | 5                | 6           |
| 8 ROUNDUP POWERMAX            | 28.44 fl oz/a A | 0 a              | 34 b        |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    |                  |             |
| ENVIVE @ 2.5 OZ               |                 |                  |             |
| VALOR SX                      | 1.43 oz/a A     |                  |             |
| CLASSIC                       | 0.92 oz/a A     |                  |             |
| HARMONY SG                    | 0.145 oz/a A    |                  |             |
| COC                           | 1 % v/v A       |                  |             |
| N-PAK                         | 2.5 % v/v A     |                  |             |
| 9 ROUNDUP POWERMAX            | 28.44 fl oz/a A | 0 a              | 75 a        |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    |                  |             |
| VALOR SX                      | 2.53 oz/a A     |                  |             |
| SCEPTER                       | 2.1 oz/a A      |                  |             |
| TRICOR                        | 0.372 lb/a A    |                  |             |
| COC                           | 1 % v/v A       |                  |             |
| N-PAK                         | 2.5 % v/v A     |                  |             |
| 10 ROUNDUP POWERMAX           | 28.44 fl oz/a A | 0 a              | 33 b        |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    |                  |             |
| VALOR SX                      | 2.53 oz/a A     |                  |             |
| DUAL II MAGNUM                | 20 fl oz/a A    |                  |             |
| COC                           | 1 % v/v A       |                  |             |
| N-PAK                         | 2.5 % v/v A     |                  |             |
| 11 ROUNDUP POWERMAX           | 28.44 fl oz/a A | 0 a              | 14 b        |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    |                  |             |
| VALOR SX                      | 2.53 oz/a A     |                  |             |
| DUAL II MAGNUM                | 20 fl oz/a A    |                  |             |
| SCEPTER                       | 2.1 oz/a A      |                  |             |
| COC                           | 1 % v/v A       |                  |             |
| N-PAK                         | 2.5 % v/v A     |                  |             |
| 12 ROUNDUP POWERMAX           | 28.44 fl oz/a A | 0 a              | 81 a        |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    |                  |             |
| TRIVENCE @ 10 OZ              |                 |                  |             |
| CLASSIC                       | 1.56 oz/a A     |                  |             |
| VALOR SX                      | 2.51 oz/a A     |                  |             |
| TRICOR                        | 5.95 oz/a A     |                  |             |
| COC                           | 1 % v/v A       |                  |             |
| N-PAK                         | 2.5 % v/v A     |                  |             |
| 13 ROUNDUP POWERMAX           | 28.44 fl oz/a A | 0 a              | 28 b        |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    |                  |             |
| SPARTAN                       | 8 fl oz/a A     |                  |             |
| COC                           | 1 % v/v A       |                  |             |
| N-PAK                         | 2.5 % v/v A     |                  |             |

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Missing data estimates are included in columns: Yates=1,2,3,4,5,6,7  
Could not calculate LSD (% mean diff) for columns 3,5,7 because error mean square = 0.



|                               |                 |                 |             |
|-------------------------------|-----------------|-----------------|-------------|
| Pest Type                     |                 | W Weed          |             |
| Pest Code                     |                 | ERICA           |             |
| Pest Name                     |                 | Canada horsewe> |             |
| Crop Code                     | GLXMA           |                 | GLXMA       |
| Crop Name                     | Soybean         |                 | Soybean     |
| Rating Date                   | 6/22/2017       | 7/7/2017        | 7/7/2017    |
| Rating Type                   | PHYGEN          | CONTRO          | PHYGEN      |
| Rating Unit                   | %               | %               | %           |
| Number of Subsamples          | 1               | 1               | 1           |
| Assessed By                   | T. Campbell     | T. Campbell     | T. Campbell |
| Days After First/Last Applic. | 36 36           | 51 51           | 51 51       |
| Trt-Eval Interval             | 36 DA-A         | 36 DA-A         | 36 DA-A     |
| Days After Emergence          | 18 DE-1         | 33 DE-1         | 33 DE-1     |
| ARM Action Codes              | P               | P               | P           |
| Number of Decimals            | 0               | 0               | 0           |
| Trt Treatment                 | Rate Appl       |                 |             |
| No. Name                      | Rate Unit Code  | 5               | 6           |
| 14 ROUNDUP POWERMAX           | 28.44 fl oz/a A | 0 a             | 31 b        |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    |                 |             |
| AUTHORITY ELITE               | 24 fl oz/a A    |                 |             |
| COC                           | 1 % v/v A       |                 |             |
| N-PAK                         | 2.5 % v/v A     |                 |             |
| 15 ROUNDUP POWERMAX           | 28.44 fl oz/a A | 0 a             | 26 b        |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    |                 |             |
| AUTHORITY ELITE               | 24 fl oz/a A    |                 |             |
| SCEPTER                       | 2.1 oz/a A      |                 |             |
| COC                           | 1 % v/v A       |                 |             |
| N-PAK                         | 2.5 % v/v A     |                 |             |
| 16 ROUNDUP POWERMAX           | 28.44 fl oz/a A | 0 a             | 76 a        |
| SHREDDER 2,4-D LV4            | 16 fl oz/a A    |                 |             |
| AUTHORITY ELITE               | 24 fl oz/a A    |                 |             |
| SCEPTER                       | 2.1 oz/a A      |                 |             |
| TRICOR                        | 0.372 lb/a A    |                 |             |
| COC                           | 1 % v/v A       |                 |             |
| N-PAK                         | 2.5 % v/v A     |                 |             |
| LSD P=.05                     | .               | 27.8            | .           |
| Standard Deviation            | 0.0             | 19.5            | 0.0         |
| CV                            | 0.0             | 47.88           | 0.0         |
| Bartlett's X2                 | 0.0             | 18.965          | 0.0         |
| P(Bartlett's X2)              | .               | 0.166           | .           |
| Skewness                      | .               | 0.3358          | .           |
| Kurtosis                      | .               | -1.4016*        | .           |
| Replicate F                   | 0.000           | 5.892           | 0.000       |
| Replicate Prob(F)             | 1.0000          | 0.0018          | 1.0000      |
| Treatment F                   | 0.000           | 6.386           | 0.000       |
| Treatment Prob(F)             | 1.0000          | 0.0001          | 1.0000      |

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Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
Missing data estimates are included in columns: Yates=1,2,3,4,5,6,7  
Could not calculate LSD (% mean diff) for columns 3,5,7 because error mean square = 0.

# Purdue Weed Science

## SCEPTER TANK MIXTURES FOR EARLY PREPLANT IN NO-TILL SOYBEANS

Trial ID: 17S-CORT-Soy-04      Location: Cortland      Trial Year: 2017  
Protocol ID: 17S-CORT-Soy-04      Investigator: Dr. Bill Johnson  
Project ID: 17C05H044XIN517      Study Director: Taylor Campbell  
Sponsor Contact: AMVAC - Joseph Argentine

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

ERICA, Erigeron canadensis, Canada horseweed = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Type

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)