

# The Ohio State University

## Conventional Till Soybean Showcase Treatments

Trial ID: 16 SHOWCASE      Location: Western Branch      Trial Year: 2016  
 Protocol ID: 16 SHOWCASE      Investigator: Dr. Mark M. Loux  
 Project ID: EHL50Y02/DAS SHO      Study Director: Bryan Reeb  
 Sponsor Contact: Dain Bruns, SYN/Bruce Maddy Dow

### General Trial Information

**Study Director:** Bryan Reeb  
**Investigator:** Dr. Mark M. Loux

**Latitude of LL Corner °:** 39.86021    N  
**Longitude of LL Corner °:** 83.67239    W  
**Altitude of LL Corner, Unit:** 1083.00 FT

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

### Contacts

**Study Director:** Bryan Reeb

**Investigator:** Dr. Mark M. Loux

### Crop Description

**Crop 1:** GLXMA      Glycine max  
**Variety:** AG3536  
**Description:** Asgrow RR2

**BBCH Scale:** BSOY

**Planting Rate, Unit:** 175000 S/A  
**Depth, Unit:** 1    IN  
**Row Spacing, Unit:** 15    IN  
**Soil Temperature, Unit:** 67    F  
**Soil Moisture:** DRY      dry  
**Seed Bed:** MEDIUM    medium

**Planting Date:** 5-25-2016  
**Planting Method:** PLANTD planted  
**Planting Equipment:** FE      Field Equipment  
**Emergence Date:** 6-1-2016

### Pest Description

**Pest 1 Type:** W    **Code:** SETFA    *Setaria faberi*  
**Common Name:** Giant foxtail

**Pest 2 Type:** W    **Code:** AMBTR    *Ambrosia trifida*  
**Common Name:** Giant ragweed

**Pest 3 Type:** W    **Code:** CHEAL    *Chenopodium album*  
**Common Name:** Common lambsquarters

**Pest 4 Type:** W    **Code:** AMARE    *Amaranthus retroflexus*  
**Common Name:** Redroot pigweed

**Pest 5 Type:** W    **Code:** ABUTH    *Abutilon theophrasti*  
**Common Name:** velvetleaf

**Pest 6 Type:** W    **Code:** SETPU    *Setaria pumila*  
**Common Name:** yellow foxtail

**Pest 7 Type:** W    **Code:** SIDSP    *Sida spinosa*  
**Common Name:** Prickly sida

**Pest 8 Type:** W    **Code:** AMPAL    *Cynanchum laeve*  
**Common Name:** Honeyvine milkweed

**Pest 9 Type:** W    **Code:** IPOHE    *Ipomoea hederacea*  
**Common Name:** Ivyleaf morningglory

**Pest10 Type:** W    **Code:** ECHCG    *Echinochloa crus-galli*  
**Common Name:** Common barnyardgrass

### Site and Design

**Treated Plot Width:** 10 FT  
**Treated Plot Length:** 30 FT  
**Treated Plot Area:** 300 FT2    **Treatments:** 16  
**Replications:** 4

**Site Type:** FIELD    field  
**Experimental Unit:** 1    PLOT      plot  
**Tillage Type:** CONTIL    conventional-till  
**Study Design:** RACOBL    Randomized Complete Block (RCB)

### Soil Description

**Description Name:** F-8 West  
**% OM:** 3.1      **Texture:** SICL silty clay loam  
**pH:** 6.3      **Soil Name:** Kokomo  
**CEC:** 20      **Fert. Level:** G good  
**Soil Drainage:** G good

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|                                       | Application Description |              |              |
|---------------------------------------|-------------------------|--------------|--------------|
|                                       | A                       | B            | C            |
| <b>Application Date:</b>              | 5-25-2016               | 6-24-2016    | 6-28-2016    |
| <b>Appl. Start Time:</b>              | 10:30 AM                | 8:00 AM      | 8:00 AM      |
| <b>Appl. Stop Time:</b>               | 10:45 AM                | 8:15 AM      | 8:30 AM      |
| <b>Interval to Prev. Appl., Unit:</b> |                         | 30 DAYS      | 4 DAYS       |
| <b>Application Method:</b>            | SPRAY                   | SPRAY        | SPRAY        |
| <b>Application Timing:</b>            | PRE                     | EPO 2-3" WDS | POST4-6" WDS |
| <b>Application Placement:</b>         | BROSOI                  | BROFOL       | BROFOL       |
| <b>Applied By:</b>                    | LAMB                    | DOBBELS      | ACKLEY       |
| <b>Air Temperature, Unit:</b>         | 79 F                    | 69 F         | 70 F         |
| <b>% Relative Humidity:</b>           | 47                      | 78           | 72           |
| <b>Wind Velocity, Unit:</b>           | 9 MPH                   | 5 MPH        | 5 MPH        |
| <b>Wind Direction:</b>                | SSW                     | ENE          | NW           |
| <b>Dew Presence (Y/N):</b>            | N no                    | Y yes        | N no         |
| <b>Soil Temperature, Unit:</b>        | 66 F                    | 69 F         | 72 F         |
| <b>Soil Moisture:</b>                 | DRY                     | SLIDRY       | MOIST        |
| <b>% Cloud Cover:</b>                 | 75                      | 20           | 0            |
| <b>Next Moisture Occurred On:</b>     | 5-29-2016               | 6-26-2016    | 7-1-2016     |
| <b>Time to Next Moisture, Unit:</b>   | 4 D                     | 2 DAYS       | 2 DAYS       |

|                                 | Crop Stage At Each Application |      |       |      |       |      |
|---------------------------------|--------------------------------|------|-------|------|-------|------|
|                                 | A                              |      | B     |      | C     |      |
| <b>Crop 1 Code, BBCH Scale:</b> | GLXMA                          | BSOY | GLXMA | BSOY | GLXMA | BSOY |
| <b>Stage Scale Used:</b>        |                                |      | BBCH  |      | BBCH  |      |
| <b>Stage Majority, Percent:</b> |                                |      | 13    | 100  | 14    | 100  |
| <b>Height, Unit:</b>            |                                |      | 7     | IN   | 11    | IN   |

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### Pest Stage At Each Application

|                                  | A       | B       | C       |
|----------------------------------|---------|---------|---------|
| <b>Pest 1 Code, Type, Scale:</b> | SETFA W | SETFA W | SETFA W |
| <b>Stage Majority, Percent:</b>  | 18      | 60      | 25 100  |
| <b>Stage Minimum, Percent:</b>   | 16      | 40      |         |
| <b>Stage Maximum, Percent:</b>   | 18      | 60      |         |
| <b>Height, Unit:</b>             | 6       | IN      | 7 IN    |
| <b>Height Minimum, Maximum:</b>  | 4       | 8       | 6 8     |
| <b>Density, Unit:</b>            |         |         | 35 m2   |
| <b>Pest 2 Code, Type, Scale:</b> | AMBTR W | AMBTR W | AMBTR W |
| <b>Stage Majority, Percent:</b>  | 19      | 100     | 19 100  |
| <b>Height, Unit:</b>             | 10      | IN      | 10 IN   |
| <b>Height Minimum, Maximum:</b>  | 8       | 12      | 10 14   |
| <b>Density, Unit:</b>            |         |         | 3 m2    |
| <b>Pest 3 Code, Type, Scale:</b> | CHEAL W | CHEAL W | CHEAL W |
| <b>Stage Majority, Percent:</b>  | 16      | 100     |         |
| <b>Height, Unit:</b>             | 2       | IN      |         |
| <b>Height Minimum, Maximum:</b>  | 1       | 2       |         |
| <b>Density, Unit:</b>            |         |         | 8 m2    |
| <b>Pest 4 Code, Type, Scale:</b> | AMARE W | AMARE W | AMARE W |
| <b>Stage Majority, Percent:</b>  | 16      | 60      | 18 100  |
| <b>Stage Minimum, Percent:</b>   | 14      | 40      |         |
| <b>Stage Maximum, Percent:</b>   | 16      | 60      |         |
| <b>Height, Unit:</b>             | 2       | IN      | 4 IN    |
| <b>Height Minimum, Maximum:</b>  | 1       | 2       | 2 6     |
| <b>Density, Unit:</b>            |         |         | 12 m2   |
| <b>Pest 5 Code, Type, Scale:</b> | ABUTH W | ABUTH W | ABUTH W |
| <b>Stage Majority, Percent:</b>  | 16      | 100     |         |
| <b>Height, Unit:</b>             | 6       | IN      |         |
| <b>Height Minimum, Maximum:</b>  | 6       | 8       |         |
| <b>Density, Unit:</b>            |         |         | 1 m2    |
| <b>Pest 6 Code, Type, Scale:</b> | SETPU W | SETPU W | SETPU W |
| <b>Stage Majority, Percent:</b>  | 14      | 60      |         |
| <b>Stage Minimum, Percent:</b>   | 15      | 40      |         |
| <b>Stage Maximum, Percent:</b>   | 14      | 60      |         |
| <b>Height, Unit:</b>             | 6       | IN      |         |
| <b>Height Minimum, Maximum:</b>  | 4       | 6       |         |
| <b>Pest 7 Code, Type, Scale:</b> | SIDSP W | SIDSP W | SIDSP W |
| <b>Stage Majority, Percent:</b>  | 19      | 100     |         |
| <b>Height, Unit:</b>             | 4       | IN      |         |
| <b>Height Minimum, Maximum:</b>  | 2       | 6       |         |
| <b>Density, Unit:</b>            |         |         | 5 m2    |
| <b>Pest 8 Code, Type, Scale:</b> | AMPAL W | AMPAL W | AMPAL W |
| <b>Stage Majority, Percent:</b>  | 19      | 100     |         |
| <b>Height, Unit:</b>             | 6       | IN      |         |
| <b>Height Minimum, Maximum:</b>  | 6       | 8       |         |
| <b>Pest 9 Code, Type, Scale:</b> | IPOHE W | IPOHE W | IPOHE W |
| <b>Stage Majority, Percent:</b>  |         |         | 19 100  |
| <b>Height, Unit:</b>             |         |         | 4 IN    |
| <b>Height Minimum, Maximum:</b>  |         |         | 2 6     |
| <b>Density, Unit:</b>            |         |         | 1 m2    |
| <b>Pest10 Code, Type, Scale:</b> | ECHCG W | ECHCG W | ECHCG W |
| <b>Stage Majority, Percent:</b>  |         |         | 25 100  |
| <b>Height, Unit:</b>             |         |         | 5 IN    |
| <b>Height Minimum, Maximum:</b>  |         |         | 5 6     |
| <b>Density, Unit:</b>            |         |         | 65 m2   |

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 Study Director: Bryan Reeb  
 Sponsor Contact: Dain Bruns, SYN/Bruce Maddy Dow

Trial Year: 2016

### Application Equipment

|                           | A            | B            | C            |
|---------------------------|--------------|--------------|--------------|
| Appl. Equipment:          | 10' BACKPACK | 10' BACKPACK | 10' BACKPACK |
| Equipment Type:           | BACCAI       | BACCAI       | BACCAI       |
| Operation Pressure, Unit: | 50 PSI       | 44 PSI       | 44 PSI       |
| Nozzle Type:              | AIXR         | AIXR         | AIXR         |
| Nozzle Size:              | 11015        | 11015        | 11015        |
| Nozzle Spacing, Unit:     | 18 IN        | 18 IN        | 18 IN        |
| Nozzles/Row:              | 6            | 6            | 6            |
| Boom Length, Unit:        | 10 FT        | 10 FT        | 10 FT        |
| Boom Height, Unit:        | 20 IN        | 20 IN        | 20 IN        |
| Ground Speed, Unit:       | 3 MPH        | 3 MPH        | 3 MPH        |
| Carrier:                  | WATER        | WATER        | WATER        |
| Spray Volume, Unit:       | 15 gal/ac    | 15 gal/ac    | 15 gal/ac    |
| Mix Size, Unit:           | 2 liters     | 2 liters     | 2 liters     |
| Propellant:               | COMCO2       | COMCO2       | COMCO2       |

| Pest Type            | W Weed         | W Weed          | W Weed          | W Weed          | W Weed          |
|----------------------|----------------|-----------------|-----------------|-----------------|-----------------|
| Pest Code            | SETFA          | ECHCG           | AMBTR           | CHEAL           | AMARE           |
| Pest Scientific Name | Setaria faberi | Echinochloa cr> | Ambrosia trifi> | Chenopodium al> | Amaranthus ret> |

| Pest Name                     | Giant foxtail | Common barnyar> | Giant ragweed | Common lambsqu> | Redroot pigweed |
|-------------------------------|---------------|-----------------|---------------|-----------------|-----------------|
| Rating Date                   | 6-15-2016     | 6-15-2016       | 6-15-2016     | 6-15-2016       | 6-15-2016       |
| Rating Type                   | PHYGEN        | CONTRO          | CONTRO        | CONTRO          | CONTRO          |
| Rating Unit                   | %             | %               | %             | %               | %               |
| Number of Subsamples          | 1             | 1               | 1             | 1               | 1               |
| SE Group No.                  | 1             | 2               | 3             | 4               | 5               |
| Days After First/Last Applic. | 21 21         | 21 21           | 21 21         | 21 21           | 21 21           |
| Trt-Eval Interval             | 21 DA-A       | 21 DA-A         | 21 DA-A       | 21 DA-A         | 21 DA-A         |
| Plant-Eval Interval           | 21 DP-1       | 21 DP-1         | 21 DP-1       | 21 DP-1         | 21 DP-1         |
| Days After Emergence          | 14 DE-1       | 14 DE-1         | 14 DE-1       | 14 DE-1         | 14 DE-1         |

| Trt No. | Treatment Name    | Other Rate | Other Rate | Appl Unit | Code | 1*    | 2*       | 3*      | 4*       | 5*      | 6*      |
|---------|-------------------|------------|------------|-----------|------|-------|----------|---------|----------|---------|---------|
| 1       | UTC               |            |            |           |      | 0.0 b | 0.0 i    | 0.0 f   | 0.0 g    | 0.0 c   | 0.0 c   |
| 2       | Broadaxe XC       | 25 oz/a    |            | A         |      | 0.0 b | 77.5 ab  | 76.3 ab | 27.5 d-g | 100.0 a | 100.0 a |
|         | Roundup Power Max | 35 oz/a    |            | B         |      |       |          |         |          |         |         |
|         | N-pak ams         | 1.5 qt/a   |            | B         |      |       |          |         |          |         |         |
| 3       | Broadaxe XC       | 25 oz/a    |            | A         |      | 0.8 b | 67.5 a-d | 67.5 ab | 22.5 efg | 96.8 ab | 100.0 a |
|         | Flexstar GT 3.5   | 3.5 pt/a   |            | B         |      |       |          |         |          |         |         |
|         | MSO               | 0.6 qt/a   |            | B         |      |       |          |         |          |         |         |
|         | N-pak ams         | 1.5 qt/a   |            | B         |      |       |          |         |          |         |         |
| 4       | Boundary          | 1.75 pt/a  |            | A         |      | 0.5 b | 78.8 ab  | 81.3 ab | 10.0 fg  | 99.3 a  | 98.8 ab |
|         | Metribuzin        | 3 oz/a     |            | A         |      |       |          |         |          |         |         |
|         | Flexstar GT 3.5   | 3.5 pt/a   |            | B         |      |       |          |         |          |         |         |
|         | MSO               | 0.6 qt/a   |            | B         |      |       |          |         |          |         |         |
|         | N-pak ams         | 1.5 qt/a   |            | B         |      |       |          |         |          |         |         |
| 5       | Broadaxe XC       | 25 oz/a    |            | A         |      | 0.8 b | 66.3 b-e | 63.8 bc | 32.5 c-g | 100.0 a | 100.0 a |
|         | Classic           | 1.25 oz/a  |            | A         |      |       |          |         |          |         |         |
|         | Roundup Power Max | 35 oz/a    |            | B         |      |       |          |         |          |         |         |
|         | N-pak ams         | 1.5 qt/a   |            | B         |      |       |          |         |          |         |         |
| 6       | Boundary          | 1.75 pt/a  |            | A         |      | 0.5 b | 85.8 a   | 83.3 a  | 58.8 a-d | 99.5 a  | 100.0 a |
|         | Prefix            | 2 pt/a     |            | A         |      |       |          |         |          |         |         |
|         | Roundup Power Max | 35 oz/a    |            | B         |      |       |          |         |          |         |         |
|         | N-pak ams         | 1.5 qt/a   |            | B         |      |       |          |         |          |         |         |
| 7       | Valor XLT @ 4oz   |            |            |           |      | 0.8 b | 50.0 d-g | 47.5 cd | 20.0 efg | 100.0 a | 100.0 a |
|         | Valor SX          | 2.35 oz/a  |            | A         |      |       |          |         |          |         |         |
|         | Classic           | 1.65 oz/a  |            | A         |      |       |          |         |          |         |         |
|         | Roundup Power Max | 35 oz/a    |            | B         |      |       |          |         |          |         |         |
|         | N-pak ams         | 1.5 qt/a   |            | B         |      |       |          |         |          |         |         |
| 8       | Authority XL      | 4 oz/a     |            | A         |      | 0.0 b | 35.0 gh  | 32.5 de | 25.0 d-g | 100.0 a | 100.0 a |
|         | Roundup Power Max | 35 oz/a    |            | B         |      |       |          |         |          |         |         |
|         | N-pak ams         | 1.5 qt/a   |            | B         |      |       |          |         |          |         |         |

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Location: Western Branch  
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 Sponsor Contact: Dain Bruns, SYN/Bruce Maddy Dow

Trial Year: 2016

| Pest Type                     | W Weed               | W Weed          | W Weed          | W Weed          | W Weed          |         |          |          |          |          |          |
|-------------------------------|----------------------|-----------------|-----------------|-----------------|-----------------|---------|----------|----------|----------|----------|----------|
| Pest Code                     | SETFA                | ECHCG           | AMBTR           | CHEAL           | AMARE           |         |          |          |          |          |          |
| Pest Scientific Name          | Setaria faberi       | Echinochloa cr> | Ambrosia trifi> | Chenopodium al> | Amaranthus ret> |         |          |          |          |          |          |
| Pest Name                     | Giant foxtail        | Common barnyar> | Giant ragweed   | Common lambsqu> | Redroot pigweed |         |          |          |          |          |          |
| Rating Date                   | 6-15-2016            | 6-15-2016       | 6-15-2016       | 6-15-2016       | 6-15-2016       |         |          |          |          |          |          |
| Rating Type                   | PHYGEN               | CONTRO          | CONTRO          | CONTRO          | CONTRO          |         |          |          |          |          |          |
| Rating Unit                   | %                    | %               | %               | %               | %               |         |          |          |          |          |          |
| Number of Subsamples          | 1                    | 1               | 1               | 1               | 1               |         |          |          |          |          |          |
| SE Group No.                  | 1                    | 2               | 3               | 4               | 5               |         |          |          |          |          |          |
| Days After First/Last Applic. | 21 21                | 21 21           | 21 21           | 21 21           | 21 21           |         |          |          |          |          |          |
| Trt-Eval Interval             | 21 DA-A              | 21 DA-A         | 21 DA-A         | 21 DA-A         | 21 DA-A         |         |          |          |          |          |          |
| Plant-Eval Interval           | 21 DP-1              | 21 DP-1         | 21 DP-1         | 21 DP-1         | 21 DP-1         |         |          |          |          |          |          |
| Days After Emergence          | 14 DE-1              | 14 DE-1         | 14 DE-1         | 14 DE-1         | 14 DE-1         |         |          |          |          |          |          |
| Trt No.                       | Treatment Name       | Other Rate      | Other Rate      | Appl Unit       | Code            | 1*      | 2*       | 3*       | 4*       | 5*       | 6*       |
| 9                             | Enlite @ 2.8oz       |                 |                 |                 |                 | 0.0 b   | 17.5 hi  | 17.5 ef  | 35.0 c-f | 100.0 a  | 100.0 a  |
|                               | Valor SX             | 2.0 oz/a        |                 |                 | A               |         |          |          |          |          |          |
|                               | Classic              | 0.32 oz/a       |                 |                 | A               |         |          |          |          |          |          |
|                               | Harmony GT           | 0.49 oz/a       |                 |                 | A               |         |          |          |          |          |          |
|                               | Roundup Power Max    | 35 oz/a         |                 |                 | B               |         |          |          |          |          |          |
|                               | N-pak ams            | 1.5 qt/a        |                 |                 | B               |         |          |          |          |          |          |
| 10                            | Sonic                | 4 oz/a          |                 |                 | A               | 0.0 b   | 32.5 gh  | 32.5 de  | 26.3 d-g | 100.0 a  | 97.3 b   |
|                               | Roundup Power Max    | 35 oz/a         |                 |                 | B               |         |          |          |          |          |          |
|                               | N-pak ams            | 1.5 qt/a        |                 |                 | B               |         |          |          |          |          |          |
| 11                            | Rowel FX             | 3 oz/a          |                 |                 | A               | 3.3 a   | 77.5 ab  | 62.5 bc  | 83.8 a   | 100.0 a  | 100.0 a  |
|                               | Warrant Ultra        | 60 oz/a         |                 |                 | A               |         |          |          |          |          |          |
|                               | Roundup Power Max    | 35 oz/a         |                 |                 | B               |         |          |          |          |          |          |
|                               | N-pak ams            | 1.5 qt/a        |                 |                 | B               |         |          |          |          |          |          |
| 12                            | Sonic                | 4 oz/a          |                 |                 | A               | 0.0 b   | 35.0 gh  | 30.0 de  | 45.0 b-e | 99.5 a   | 100.0 a  |
|                               | Metribuzin           | 4 oz/a          |                 |                 | A               |         |          |          |          |          |          |
|                               | Durango DMA          | 1 qt/a          |                 |                 | C               |         |          |          |          |          |          |
|                               | N-pak ams            | 1.5 qt/a        |                 |                 | C               |         |          |          |          |          |          |
| 13                            | Sonic                | 6 oz/a          |                 |                 | A               | 1.5 b   | 47.5 efg | 47.5 cd  | 42.5 b-f | 99.5 a   | 100.0 a  |
|                               | Durango DMA          | 1 qt/a          |                 |                 | C               |         |          |          |          |          |          |
|                               | N-pak ams            | 1.5 qt/a        |                 |                 | C               |         |          |          |          |          |          |
| 14                            | Surveil Premix       | 2.8 oz/a        |                 |                 | A               | 0.8 b   | 55.0 c-f | 42.5 d   | 72.5 ab  | 100.0 a  | 100.0 a  |
|                               | Durango DMA          | 1 qt/a          |                 |                 | C               |         |          |          |          |          |          |
|                               | N-pak ams            | 1.5 qt/a        |                 |                 | C               |         |          |          |          |          |          |
| 15                            | Surveil Premix       | 4.2 oz/a        |                 |                 | A               | 0.8 b   | 70.0 abc | 65.0 abc | 62.5 abc | 95.0 b   | 100.0 a  |
|                               | Durango DMA          | 1 qt/a          |                 |                 | C               |         |          |          |          |          |          |
|                               | N-pak ams            | 1.5 qt/a        |                 |                 | C               |         |          |          |          |          |          |
| 16                            | Canopy Blend @ 7.5oz |                 |                 |                 |                 | 1.3 b   | 40.0 fg  | 40.0 d   | 40.0 b-f | 99.3 a   | 100.0 a  |
|                               | Classic              | 2.48 oz/a       |                 |                 | A               |         |          |          |          |          |          |
|                               | Metribuzin           | 5 oz/a          |                 |                 | A               |         |          |          |          |          |          |
|                               | Roundup Power Max    | 35 oz/a         |                 |                 | B               |         |          |          |          |          |          |
|                               | N-pak ams            | 1.5 qt/a        |                 |                 | B               |         |          |          |          |          |          |
|                               | LSD P=.05            |                 |                 |                 |                 | 1.56    | 19.36    | 18.90    | 33.75    | 3.82     | 1.96     |
|                               | Standard Deviation   |                 |                 |                 |                 | 1.09    | 13.60    | 13.27    | 23.70    | 2.68     | 1.38     |
|                               | CV                   |                 |                 |                 |                 | 162.59  | 26.03    | 26.9     | 62.8     | 2.88     | 1.48     |
|                               | Bartlett's X2        |                 |                 |                 |                 | 4.423   | 18.704   | 10.591   | 15.351   | 33.014   | 1.223    |
|                               | P(Bartlett's X2)     |                 |                 |                 |                 | 0.881   | 0.133    | 0.718    | 0.355    | 0.001*   | 0.269    |
|                               | Skewness             |                 |                 |                 |                 | 1.8199* | -0.5037  | -0.3333  | 0.281    | -3.6334* | -3.6827* |
|                               | Kurtosis             |                 |                 |                 |                 | 2.402*  | -0.7092  | -0.7353  | -1.078   | 11.717*  | 11.9842* |
|                               | Replicate F          |                 |                 |                 |                 | 3.505   | 0.427    | 1.203    | 3.462    | 0.745    | 0.679    |
|                               | Replicate Prob(F)    |                 |                 |                 |                 | 0.0228  | 0.7347   | 0.3195   | 0.0239   | 0.5311   | 0.5696   |
|                               | Treatment F          |                 |                 |                 |                 | 2.338   | 12.914   | 12.683   | 3.625    | 343.953  | 1308.000 |
|                               | Treatment Prob(F)    |                 |                 |                 |                 | 0.0143  | 0.0001   | 0.0001   | 0.0004   | 0.0001   | 0.0001   |

# The Ohio State University

## Conventional Till Soybean Showcase Treatments

Trial ID: 16 SHOWCASE  
 Protocol ID: 16 SHOWCASE  
 Project ID: EHLISOY02/DAS SHO

Location: Western Branch  
 Investigator: Dr. Mark M. Loux  
 Study Director: Bryan Reeb  
 Sponsor Contact: Dain Bruns, SYN/Bruce Maddy Dow

Trial Year: 2016

| Pest Type                     | W Weed            | W Weed       | W Weed         | W Weed          | W Weed          |         |         |       |          |          |          |
|-------------------------------|-------------------|--------------|----------------|-----------------|-----------------|---------|---------|-------|----------|----------|----------|
| Pest Code                     | ABUTH             | SIDSP        | SETFA          | ECHCG           | AMBTR           |         |         |       |          |          |          |
| Pest Scientific Name          | Abutilon theop>   | Sida spinosa | Setaria faberi | Echinochloa cr> | Ambrosia trifi> |         |         |       |          |          |          |
| Pest Name                     | velvetleaf        | Prickly sida | Giant foxtail  | Common barnyar> | Giant ragweed   |         |         |       |          |          |          |
| Rating Date                   | 6-15-2016         | 6-15-2016    | 6-22-2016      | 6-22-2016       | 6-22-2016       |         |         |       |          |          |          |
| Rating Type                   | CONTRO            | CONTRO       | PHYGEN         | CONTRO          | CONTRO          |         |         |       |          |          |          |
| Rating Unit                   | %                 | %            | %              | %               | %               |         |         |       |          |          |          |
| Number of Subsamples          | 1                 | 1            | 1              | 1               | 1               |         |         |       |          |          |          |
| SE Group No.                  | 7                 | 8            | 9              | 10              | 11              |         |         |       |          |          |          |
| Days After First/Last Applic. | 21 21             | 21 21        | 28 28          | 28 28           | 28 28           |         |         |       |          |          |          |
| Trt-Eval Interval             | 21 DA-A           | 21 DA-A      | 28 DA-A        | 28 DA-A         | 28 DA-A         |         |         |       |          |          |          |
| Plant-Eval Interval           | 21 DP-1           | 21 DP-1      | 28 DP-1        | 28 DP-1         | 28 DP-1         |         |         |       |          |          |          |
| Days After Emergence          | 14 DE-1           | 14 DE-1      | 21 DE-1        | 21 DE-1         | 21 DE-1         |         |         |       |          |          |          |
| Trt No.                       | Treatment Name    | Other Rate   | Other Rate     | Appl Unit       | Code            | 7*      | 8*      | 9*    | 10*      | 11*      | 12*      |
| 1                             | UTC               |              |                |                 |                 | 0.0 c   | 0.0 c   | 0.0 - | 0.0 g    | 0.0 h    | 0.0 d    |
| 2                             | Broadaxe XC       | 25 oz/a      |                | A               |                 | 100.0 a | 92.5 ab | 1.0 - | 66.3 ab  | 66.3 ab  | 32.5 abc |
|                               | Roundup Power Max | 35 oz/a      |                | B               |                 |         |         |       |          |          |          |
|                               | N-pak ams         | 1.5 qt/a     |                | B               |                 |         |         |       |          |          |          |
| 3                             | Broadaxe XC       | 25 oz/a      |                | A               |                 | 97.5 ab | 81.3 b  | 1.3 - | 60.0 ab  | 52.5 bc  | 20.0 cd  |
|                               | Flexstar GT 3.5   | 3.5 pt/a     |                | B               |                 |         |         |       |          |          |          |
|                               | MSO               | 0.6 qt/a     |                | B               |                 |         |         |       |          |          |          |
|                               | N-pak ams         | 1.5 qt/a     |                | B               |                 |         |         |       |          |          |          |
| 4                             | Boundary          | 1.75 pt/a    |                | A               |                 | 100.0 a | 96.8 a  | 0.8 - | 65.0 ab  | 60.0 abc | 0.0 d    |
|                               | Metribuzin        | 3 oz/a       |                | A               |                 |         |         |       |          |          |          |
|                               | Flexstar GT 3.5   | 3.5 pt/a     |                | B               |                 |         |         |       |          |          |          |
|                               | MSO               | 0.6 qt/a     |                | B               |                 |         |         |       |          |          |          |
|                               | N-pak ams         | 1.5 qt/a     |                | B               |                 |         |         |       |          |          |          |
| 5                             | Broadaxe XC       | 25 oz/a      |                | A               |                 | 100.0 a | 81.8 b  | 1.3 - | 52.5 b   | 52.5 bc  | 22.5 cd  |
|                               | Classic           | 1.25 oz/a    |                | A               |                 |         |         |       |          |          |          |
|                               | Roundup Power Max | 35 oz/a      |                | B               |                 |         |         |       |          |          |          |
|                               | N-pak ams         | 1.5 qt/a     |                | B               |                 |         |         |       |          |          |          |
| 6                             | Boundary          | 1.75 pt/a    |                | A               |                 | 100.0 a | 100.0 a | 1.8 - | 72.5 a   | 72.5 a   | 40.0 abc |
|                               | Prefix            | 2 pt/a       |                | A               |                 |         |         |       |          |          |          |
|                               | Roundup Power Max | 35 oz/a      |                | B               |                 |         |         |       |          |          |          |
|                               | N-pak ams         | 1.5 qt/a     |                | B               |                 |         |         |       |          |          |          |
| 7                             | Valor XLT @ 4oz   |              |                |                 |                 | 100.0 a | 100.0 a | 3.3 - | 35.0 c   | 35.0 def | 10.0 cd  |
|                               | Valor SX          | 2.35 oz/a    |                | A               |                 |         |         |       |          |          |          |
|                               | Classic           | 1.65 oz/a    |                | A               |                 |         |         |       |          |          |          |
|                               | Roundup Power Max | 35 oz/a      |                | B               |                 |         |         |       |          |          |          |
|                               | N-pak ams         | 1.5 qt/a     |                | B               |                 |         |         |       |          |          |          |
| 8                             | Authority XL      | 4 oz/a       |                | A               |                 | 95.0 b  | 100.0 a | 0.8 - | 17.5 def | 15.0 gh  | 10.0 cd  |
|                               | Roundup Power Max | 35 oz/a      |                | B               |                 |         |         |       |          |          |          |
|                               | N-pak ams         | 1.5 qt/a     |                | B               |                 |         |         |       |          |          |          |

# The Ohio State University

## Conventional Till Soybean Showcase Treatments

Trial ID: 16 SHOWCASE  
 Protocol ID: 16 SHOWCASE  
 Project ID: EHLISOY02/DAS SHO

Location: Western Branch  
 Investigator: Dr. Mark M. Loux  
 Study Director: Bryan Reeb  
 Sponsor Contact: Dain Bruns, SYN/Bruce Maddy Dow

Trial Year: 2016

| Pest Type                     | W Weed               | W Weed       | W Weed         | W Weed          | W Weed          |          |          |         |          |          |          |
|-------------------------------|----------------------|--------------|----------------|-----------------|-----------------|----------|----------|---------|----------|----------|----------|
| Pest Code                     | ABUTH                | SIDSP        | SETFA          | ECHCG           | AMBTR           |          |          |         |          |          |          |
| Pest Scientific Name          | Abutilon theop>      | Sida spinosa | Setaria faberi | Echinochloa cr> | Ambrosia trifi> |          |          |         |          |          |          |
| Pest Name                     | velvetleaf           | Prickly sida | Giant foxtail  | Common barnyar> | Giant ragweed   |          |          |         |          |          |          |
| Rating Date                   | 6-15-2016            | 6-15-2016    | 6-22-2016      | 6-22-2016       | 6-22-2016       |          |          |         |          |          |          |
| Rating Type                   | CONTRO               | CONTRO       | PHYGEN         | CONTRO          | CONTRO          |          |          |         |          |          |          |
| Rating Unit                   | %                    | %            | %              | %               | %               |          |          |         |          |          |          |
| Number of Subsamples          | 1                    | 1            | 1              | 1               | 1               |          |          |         |          |          |          |
| SE Group No.                  | 7                    | 8            | 9              | 10              | 11              |          |          |         |          |          |          |
| Days After First/Last Applic. | 21 21                | 21 21        | 28 28          | 28 28           | 28 28           |          |          |         |          |          |          |
| Trt-Eval Interval             | 21 DA-A              | 21 DA-A      | 28 DA-A        | 28 DA-A         | 28 DA-A         |          |          |         |          |          |          |
| Plant-Eval Interval           | 21 DP-1              | 21 DP-1      | 28 DP-1        | 28 DP-1         | 28 DP-1         |          |          |         |          |          |          |
| Days After Emergence          | 14 DE-1              | 14 DE-1      | 21 DE-1        | 21 DE-1         | 21 DE-1         |          |          |         |          |          |          |
| Trt No.                       | Treatment Name       | Other Rate   | Other Rate     | Appl Unit       | Code            | 7*       | 8*       | 9*      | 10*      | 11*      | 12*      |
| 9                             | Enlite @ 2.8oz       |              |                |                 |                 | 100.0 a  | 97.5 a   | 0.8 -   | 0.0 g    | 0.0 h    | 12.5 cd  |
|                               | Valor SX             | 2.0 oz/a     |                |                 | A               |          |          |         |          |          |          |
|                               | Classic              | 0.32 oz/a    |                |                 | A               |          |          |         |          |          |          |
|                               | Harmony GT           | 0.49 oz/a    |                |                 | A               |          |          |         |          |          |          |
|                               | Roundup Power Max    | 35 oz/a      |                |                 | B               |          |          |         |          |          |          |
|                               | N-pak ams            | 1.5 qt/a     |                |                 | B               |          |          |         |          |          |          |
| 10                            | Sonic                | 4 oz/a       |                |                 | A               | 100.0 a  | 100.0 a  | 0.0 -   | 15.0 efg | 15.0 gh  | 27.5 a-d |
|                               | Roundup Power Max    | 35 oz/a      |                |                 | B               |          |          |         |          |          |          |
|                               | N-pak ams            | 1.5 qt/a     |                |                 | B               |          |          |         |          |          |          |
| 11                            | Rowel FX             | 3 oz/a       |                |                 | A               | 100.0 a  | 100.0 a  | 2.8 -   | 57.5 ab  | 50.0 cd  | 57.5 a   |
|                               | Warrant Ultra        | 60 oz/a      |                |                 | A               |          |          |         |          |          |          |
|                               | Roundup Power Max    | 35 oz/a      |                |                 | B               |          |          |         |          |          |          |
|                               | N-pak ams            | 1.5 qt/a     |                |                 | B               |          |          |         |          |          |          |
| 12                            | Sonic                | 4 oz/a       |                |                 | A               | 100.0 a  | 100.0 a  | 0.0 -   | 2.5 fg   | 2.5 h    | 25.0 bcd |
|                               | Metribuzin           | 4 oz/a       |                |                 | A               |          |          |         |          |          |          |
|                               | Durango DMA          | 1 qt/a       |                |                 | C               |          |          |         |          |          |          |
|                               | N-pak ams            | 1.5 qt/a     |                |                 | C               |          |          |         |          |          |          |
| 13                            | Sonic                | 6 oz/a       |                |                 | A               | 100.0 a  | 100.0 a  | 1.3 -   | 22.5 cde | 22.5 fg  | 27.5 a-d |
|                               | Durango DMA          | 1 qt/a       |                |                 | C               |          |          |         |          |          |          |
|                               | N-pak ams            | 1.5 qt/a     |                |                 | C               |          |          |         |          |          |          |
| 14                            | Surveil Premix       | 2.8 oz/a     |                |                 | A               | 100.0 a  | 100.0 a  | 1.3 -   | 32.5 cd  | 30.0 efg | 55.0 ab  |
|                               | Durango DMA          | 1 qt/a       |                |                 | C               |          |          |         |          |          |          |
|                               | N-pak ams            | 1.5 qt/a     |                |                 | C               |          |          |         |          |          |          |
| 15                            | Surveil Premix       | 4.2 oz/a     |                |                 | A               | 100.0 a  | 100.0 a  | 3.3 -   | 52.5 b   | 45.0 cde | 37.5 abc |
|                               | Durango DMA          | 1 qt/a       |                |                 | C               |          |          |         |          |          |          |
|                               | N-pak ams            | 1.5 qt/a     |                |                 | C               |          |          |         |          |          |          |
| 16                            | Canopy Blend @ 7.5oz |              |                |                 |                 | 100.0 a  | 93.8 a   | 0.0 -   | 22.5 cde | 22.5 fg  | 22.5 cd  |
|                               | Classic              | 2.48 oz/a    |                |                 | A               |          |          |         |          |          |          |
|                               | Metribuzin           | 5 oz/a       |                |                 | A               |          |          |         |          |          |          |
|                               | Roundup Power Max    | 35 oz/a      |                |                 | B               |          |          |         |          |          |          |
|                               | N-pak ams            | 1.5 qt/a     |                |                 | B               |          |          |         |          |          |          |
|                               | LSD P=.05            |              |                |                 |                 | 2.67     | 11.27    | 2.25    | 16.90    | 15.81    | 30.59    |
|                               | Standard Deviation   |              |                |                 |                 | 1.87     | 7.91     | 1.58    | 11.87    | 11.10    | 21.48    |
|                               | CV                   |              |                |                 |                 | 2.01     | 8.77     | 131.46  | 33.09    | 32.82    | 85.92    |
|                               | Bartlett's X2        |              |                |                 |                 | 0.061    | 9.89     | 4.23    | 15.596   | 13.321   | 15.417   |
|                               | P(Bartlett's X2)     |              |                |                 |                 | 0.805    | 0.078    | 0.963   | 0.272    | 0.423    | 0.282    |
|                               | Skewness             |              |                |                 |                 | -3.6568* | -3.0329* | 1.0674* | 0.0276   | 0.114    | 0.7668*  |
|                               | Kurtosis             |              |                |                 |                 | 11.8526* | 8.4095*  | -0.1955 | -1.4577* | -1.2544* | -0.4354  |
|                               | Replicate F          |              |                |                 |                 | 1.634    | 0.864    | 0.223   | 3.213    | 2.767    | 2.194    |
|                               | Replicate Prob(F)    |              |                |                 |                 | 0.1949   | 0.4668   | 0.8801  | 0.0316   | 0.0526   | 0.1018   |
|                               | Treatment F          |              |                |                 |                 | 707.852  | 39.448   | 1.868   | 18.079   | 18.538   | 2.485    |
|                               | Treatment Prob(F)    |              |                |                 |                 | 0.0001   | 0.0001   | 0.0538  | 0.0001   | 0.0001   | 0.0094   |

# The Ohio State University

## Conventional Till Soybean Showcase Treatments

Trial ID: 16 SHOWCASE  
 Protocol ID: 16 SHOWCASE  
 Project ID: EHLISOY02/DAS SHO

Location: Western Branch  
 Investigator: Dr. Mark M. Loux  
 Study Director: Bryan Reeb  
 Sponsor Contact: Dain Bruns, SYN/Bruce Maddy Dow

Trial Year: 2016

| Pest Type                     | W Weed          | W Weed          | W Weed          | W Weed       | W Weed         |         |          |       |         |
|-------------------------------|-----------------|-----------------|-----------------|--------------|----------------|---------|----------|-------|---------|
| Pest Code                     | CHEAL           | AMARE           | ABUTH           | SIDSP        | SETFA          |         |          |       |         |
| Pest Scientific Name          | Chenopodium al> | Amaranthus ret> | Abutilon theop> | Sida spinosa | Setaria faberi |         |          |       |         |
| Pest Name                     | Common lambsqu> | Redroot pigweed | velvetleaf      | Prickly sida | Giant foxtail  |         |          |       |         |
| Rating Date                   | 6-22-2016       | 6-22-2016       | 6-22-2016       | 6-22-2016    | 7-20-2016      |         |          |       |         |
| Rating Type                   | CONTRO          | CONTRO          | CONTRO          | CONTRO       | PHYGEN         |         |          |       |         |
| Rating Unit                   | %               | %               | %               | %            | %              |         |          |       |         |
| Number of Subsamples          | 1               | 1               | 1               | 1            | 1              |         |          |       |         |
| SE Group No.                  | 13              | 14              | 15              | 16           | 17             |         |          |       |         |
| Days After First/Last Applic. | 28 28           | 28 28           | 28 28           | 28 28        | 56 22          |         |          |       |         |
| Trt-Eval Interval             | 28 DA-A         | 28 DA-A         | 28 DA-A         | 28 DA-A      | 56 DP-1        |         |          |       |         |
| Plant-Eval Interval           | 28 DP-1         | 28 DP-1         | 28 DP-1         | 28 DP-1      | 56 DP-1        |         |          |       |         |
| Days After Emergence          | 21 DE-1         | 21 DE-1         | 21 DE-1         | 21 DE-1      | 49 DE-1        |         |          |       |         |
| Trt Treatment                 | Other           | Other           | Appl            |              |                |         |          |       |         |
| No. Name                      | Rate            | Rate            | Unit Code       | 13*          | 14*            |         |          |       |         |
|                               |                 |                 |                 | 15*          | 16*            |         |          |       |         |
|                               |                 |                 |                 | 17*          | 18*            |         |          |       |         |
| 1 UTC                         |                 |                 |                 | 0.0 d        | 0.0 c          | 0.0 c   | 0.0 f    | 0.0 - | 0.0 b   |
| 2 Broadaxe XC                 | 25 oz/a         |                 | A               | 92.5 abc     | 100.0 a        | 95.0 a  | 80.0 cde | 0.0 - | 100.0 a |
| Roundup Power Max             | 35 oz/a         |                 | B               |              |                |         |          |       |         |
| N-pak ams                     | 1.5 qt/a        |                 | B               |              |                |         |          |       |         |
| 3 Broadaxe XC                 | 25 oz/a         |                 | A               | 88.8 bc      | 100.0 a        | 90.0 ab | 70.0 e   | 0.0 - | 100.0 a |
| Flexstar GT 3.5               | 3.5 pt/a        |                 | B               |              |                |         |          |       |         |
| MSO                           | 0.6 qt/a        |                 | B               |              |                |         |          |       |         |
| N-pak ams                     | 1.5 qt/a        |                 | B               |              |                |         |          |       |         |
| 4 Boundary                    | 1.75 pt/a       |                 | A               | 87.5 c       | 97.5 b         | 87.5 ab | 87.5 abc | 0.0 - | 100.0 a |
| Metribuzin                    | 3 oz/a          |                 | A               |              |                |         |          |       |         |
| Flexstar GT 3.5               | 3.5 pt/a        |                 | B               |              |                |         |          |       |         |
| MSO                           | 0.6 qt/a        |                 | B               |              |                |         |          |       |         |
| N-pak ams                     | 1.5 qt/a        |                 | B               |              |                |         |          |       |         |
| 5 Broadaxe XC                 | 25 oz/a         |                 | A               | 100.0 a      | 100.0 a        | 97.5 a  | 71.3 de  | 0.0 - | 100.0 a |
| Classic                       | 1.25 oz/a       |                 | A               |              |                |         |          |       |         |
| Roundup Power Max             | 35 oz/a         |                 | B               |              |                |         |          |       |         |
| N-pak ams                     | 1.5 qt/a        |                 | B               |              |                |         |          |       |         |
| 6 Boundary                    | 1.75 pt/a       |                 | A               | 98.0 a       | 100.0 a        | 99.3 a  | 100.0 a  | 0.0 - | 100.0 a |
| Prefix                        | 2 pt/a          |                 | A               |              |                |         |          |       |         |
| Roundup Power Max             | 35 oz/a         |                 | B               |              |                |         |          |       |         |
| N-pak ams                     | 1.5 qt/a        |                 | B               |              |                |         |          |       |         |
| 7 Valor XLT @ 4oz             |                 |                 |                 | 100.0 a      | 100.0 a        | 100.0 a | 100.0 a  | 0.0 - | 100.0 a |
| Valor SX                      | 2.35 oz/a       |                 | A               |              |                |         |          |       |         |
| Classic                       | 1.65 oz/a       |                 | A               |              |                |         |          |       |         |
| Roundup Power Max             | 35 oz/a         |                 | B               |              |                |         |          |       |         |
| N-pak ams                     | 1.5 qt/a        |                 | B               |              |                |         |          |       |         |
| 8 Authority XL                | 4 oz/a          |                 | A               | 99.3 a       | 100.0 a        | 90.0 ab | 90.0 abc | 0.0 - | 100.0 a |
| Roundup Power Max             | 35 oz/a         |                 | B               |              |                |         |          |       |         |
| N-pak ams                     | 1.5 qt/a        |                 | B               |              |                |         |          |       |         |



# The Ohio State University

## Conventional Till Soybean Showcase Treatments

Trial ID: 16 SHOWCASE Location: Western Branch Trial Year: 2016  
 Protocol ID: 16 SHOWCASE Investigator: Dr. Mark M. Loux  
 Project ID: EHLISOY02/DAS SHO Study Director: Bryan Reeb  
 Sponsor Contact: Dain Bruns, SYN/Bruce Maddy Dow

| Pest Type                     | W Weed          | W Weed          | W Weed          | W Weed       | W Weed         |          |
|-------------------------------|-----------------|-----------------|-----------------|--------------|----------------|----------|
| Pest Code                     | CHEAL           | AMARE           | ABUTH           | SIDSP        | SETFA          |          |
| Pest Scientific Name          | Chenopodium al> | Amaranthus ret> | Abutilon theop> | Sida spinosa | Setaria faberi |          |
| Pest Name                     | Common lambsqu> | Redroot pigweed | velvetleaf      | Prickly sida | Giant foxtail  |          |
| Rating Date                   | 6-22-2016       | 6-22-2016       | 6-22-2016       | 6-22-2016    | 7-20-2016      |          |
| Rating Type                   | CONTRO          | CONTRO          | CONTRO          | CONTRO       | PHYGEN         |          |
| Rating Unit                   | %               | %               | %               | %            | %              |          |
| Number of Subsamples          | 1               | 1               | 1               | 1            | 1              |          |
| SE Group No.                  | 13              | 14              | 15              | 16           | 17             |          |
| Days After First/Last Applic. | 28 28           | 28 28           | 28 28           | 28 28        | 56 22          |          |
| Trt-Eval Interval             | 28 DA-A         | 28 DA-A         | 28 DA-A         | 28 DA-A      | 56 DP-1        |          |
| Plant-Eval Interval           | 28 DP-1         | 28 DP-1         | 28 DP-1         | 28 DP-1      | 56 DP-1        |          |
| Days After Emergence          | 21 DE-1         | 21 DE-1         | 21 DE-1         | 21 DE-1      | 49 DE-1        |          |
| Trt No.                       | 13*             | 14*             | 15*             | 16*          | 17*            |          |
| Treatment Name                | 18*             |                 |                 |              |                |          |
| 9 Enlite @ 2.8oz              | 97.5 ab         | 100.0 a         | 72.5 b          | 95.0 ab      | 0.0 -          | 100.0 a  |
| Valor SX                      | 2.0 oz/a        | A               |                 |              |                |          |
| Classic                       | 0.32 oz/a       | A               |                 |              |                |          |
| Harmony GT                    | 0.49 oz/a       | A               |                 |              |                |          |
| Roundup Power Max             | 35 oz/a         | B               |                 |              |                |          |
| N-pak ams                     | 1.5 qt/a        | B               |                 |              |                |          |
| 10 Sonic                      | 92.0 abc        | 98.8 ab         | 100.0 a         | 100.0 a      | 0.0 -          | 100.0 a  |
| Roundup Power Max             | 35 oz/a         | B               |                 |              |                |          |
| N-pak ams                     | 1.5 qt/a        | B               |                 |              |                |          |
| 11 Rowel FX                   | 97.5 ab         | 100.0 a         | 98.8 a          | 100.0 a      | 0.0 -          | 100.0 a  |
| Warrant Ultra                 | 60 oz/a         | A               |                 |              |                |          |
| Roundup Power Max             | 35 oz/a         | B               |                 |              |                |          |
| N-pak ams                     | 1.5 qt/a        | B               |                 |              |                |          |
| 12 Sonic                      | 95.0 abc        | 100.0 a         | 96.8 a          | 93.8 ab      | 0.0 -          | 100.0 a  |
| Metribuzin                    | 4 oz/a          | A               |                 |              |                |          |
| Durango DMA                   | 1 qt/a          | C               |                 |              |                |          |
| N-pak ams                     | 1.5 qt/a        | C               |                 |              |                |          |
| 13 Sonic                      | 98.8 a          | 100.0 a         | 98.8 a          | 95.0 ab      | 0.0 -          | 100.0 a  |
| Durango DMA                   | 1 qt/a          | C               |                 |              |                |          |
| N-pak ams                     | 1.5 qt/a        | C               |                 |              |                |          |
| 14 Surveil Premix             | 98.8 a          | 100.0 a         | 100.0 a         | 100.0 a      | 0.0 -          | 100.0 a  |
| Durango DMA                   | 1 qt/a          | C               |                 |              |                |          |
| N-pak ams                     | 1.5 qt/a        | C               |                 |              |                |          |
| 15 Surveil Premix             | 97.5 ab         | 100.0 a         | 100.0 a         | 100.0 a      | 0.0 -          | 100.0 a  |
| Durango DMA                   | 1 qt/a          | C               |                 |              |                |          |
| N-pak ams                     | 1.5 qt/a        | C               |                 |              |                |          |
| 16 Canopy Blend @ 7.5oz       | 100.0 a         | 100.0 a         | 100.0 a         | 83.8 bcd     | 0.0 -          | 100.0 a  |
| Classic                       | 2.48 oz/a       | A               |                 |              |                |          |
| Metribuzin                    | 5 oz/a          | A               |                 |              |                |          |
| Roundup Power Max             | 35 oz/a         | B               |                 |              |                |          |
| N-pak ams                     | 1.5 qt/a        | B               |                 |              |                |          |
| LSD P=.05                     | 9.13            | 1.94            | 19.24           | 12.54        | .              | .        |
| Standard Deviation            | 6.41            | 1.36            | 13.51           | 8.80         | 0.00           | 0.00     |
| CV                            | 7.11            | 1.45            | 15.16           | 10.31        | 0.0            | 0.0      |
| Bartlett's X2                 | 27.386          | 1.325           | 47.082          | 5.451        | 0.0            | 0.0      |
| P(Bartlett's X2)              | 0.004*          | 0.25            | 0.001*          | 0.708        | .              | .        |
| Skewness                      | -3.2545*        | -3.6828*        | -2.7923*        | -2.4314*     | .              | -3.7021* |
| Kurtosis                      | 9.7496*         | 11.9846*        | 6.6676*         | 5.6622*      | .              | 12.0825* |
| Replicate F                   | 2.079           | 1.901           | 0.400           | 2.775        | 0.000          | 0.000    |
| Replicate Prob(F)             | 0.1163          | 0.1429          | 0.7538          | 0.0521       | 1.0000         | 1.0000   |
| Treatment F                   | 57.887          | 1346.352        | 13.532          | 32.083       | 0.000          | 0.000    |
| Treatment Prob(F)             | 0.0001          | 0.0001          | 0.0001          | 0.0001       | 1.0000         | 1.0000   |

# The Ohio State University

## Conventional Till Soybean Showcase Treatments

Trial ID: 16 SHOWCASE  
 Protocol ID: 16 SHOWCASE  
 Project ID: EHLISOY02/DAS SHO

Location: Western Branch  
 Investigator: Dr. Mark M. Loux  
 Study Director: Bryan Reeb  
 Sponsor Contact: Dain Bruns, SYN/Bruce Maddy Dow

Trial Year: 2016

| Trt No. | Treatment Name                | Other Rate | Other Rate | Appl Unit Code | 19*             | 20*             | 21*             | 22*             | 23*             |
|---------|-------------------------------|------------|------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|         | Pest Type                     |            |            |                | W Weed          | W Weed          | W Weed          | W Weed          | W Weed          |
|         | Pest Code                     |            |            |                | ECHCG           | AMBTR           | CHEAL           | AMARE           | ABUTH           |
|         | Pest Scientific Name          |            |            |                | Echinochloa cr> | Ambrosia trifi> | Chenopodium al> | Amaranthus ret> | Abutilon theop> |
|         | Pest Name                     |            |            |                | Common barnyar> | Giant ragweed   | Common lambsqu> | Redroot pigweed | velvetleaf      |
|         | Rating Date                   |            |            |                | 7-20-2016       | 7-20-2016       | 7-20-2016       | 7-20-2016       | 7-20-2016       |
|         | Rating Type                   |            |            |                | CONTRO          | CONTRO          | CONTRO          | CONTRO          | CONTRO          |
|         | Rating Unit                   |            |            |                | %               | %               | %               | %               | %               |
|         | Number of Subsamples          |            |            |                | 1               | 1               | 1               | 1               | 1               |
|         | SE Group No.                  |            |            |                | 19              | 20              | 21              | 22              | 23              |
|         | Days After First/Last Applic. |            |            |                | 56 22           | 56 22           | 56 22           | 56 22           | 56 22           |
|         | Trt-Eval Interval             |            |            |                |                 |                 |                 |                 |                 |
|         | Plant-Eval Interval           |            |            |                | 56 DP-1         | 56 DP-1         | 56 DP-1         | 56 DP-1         | 56 DP-1         |
|         | Days After Emergence          |            |            |                | 49 DE-1         | 49 DE-1         | 49 DE-1         | 49 DE-1         | 49 DE-1         |
| 1       | UTC                           |            |            |                | 0.0 b           | 0.0 c           | 0.0 b           | 0.0 b           | 0.0 b           |
| 2       | Broadaxe XC                   | 25 oz/a    |            | A              | 100.0 a         | 100.0 a         | 100.0 a         | 100.0 a         | 100.0 a         |
|         | Roundup Power Max             | 35 oz/a    |            | B              |                 |                 |                 |                 |                 |
|         | N-pak ams                     | 1.5 qt/a   |            | B              |                 |                 |                 |                 |                 |
| 3       | Broadaxe XC                   | 25 oz/a    |            | A              | 100.0 a         | 85.0 b          | 100.0 a         | 100.0 a         | 100.0 a         |
|         | Flexstar GT 3.5               | 3.5 pt/a   |            | B              |                 |                 |                 |                 |                 |
|         | MSO                           | 0.6 qt/a   |            | B              |                 |                 |                 |                 |                 |
|         | N-pak ams                     | 1.5 qt/a   |            | B              |                 |                 |                 |                 |                 |
| 4       | Boundary                      | 1.75 pt/a  |            | A              | 100.0 a         | 92.5 ab         | 100.0 a         | 100.0 a         | 100.0 a         |
|         | Metribuzin                    | 3 oz/a     |            | A              |                 |                 |                 |                 |                 |
|         | Flexstar GT 3.5               | 3.5 pt/a   |            | B              |                 |                 |                 |                 |                 |
|         | MSO                           | 0.6 qt/a   |            | B              |                 |                 |                 |                 |                 |
|         | N-pak ams                     | 1.5 qt/a   |            | B              |                 |                 |                 |                 |                 |
| 5       | Broadaxe XC                   | 25 oz/a    |            | A              | 100.0 a         | 95.0 a          | 100.0 a         | 100.0 a         | 100.0 a         |
|         | Classic                       | 1.25 oz/a  |            | A              |                 |                 |                 |                 |                 |
|         | Roundup Power Max             | 35 oz/a    |            | B              |                 |                 |                 |                 |                 |
|         | N-pak ams                     | 1.5 qt/a   |            | B              |                 |                 |                 |                 |                 |
| 6       | Boundary                      | 1.75 pt/a  |            | A              | 100.0 a         | 100.0 a         | 100.0 a         | 100.0 a         | 100.0 a         |
|         | Prefix                        | 2 pt/a     |            | A              |                 |                 |                 |                 |                 |
|         | Roundup Power Max             | 35 oz/a    |            | B              |                 |                 |                 |                 |                 |
|         | N-pak ams                     | 1.5 qt/a   |            | B              |                 |                 |                 |                 |                 |
| 7       | Valor XLT @ 4oz               |            |            |                | 100.0 a         | 97.5 a          | 100.0 a         | 100.0 a         | 100.0 a         |
|         | Valor SX                      | 2.35 oz/a  |            | A              |                 |                 |                 |                 |                 |
|         | Classic                       | 1.65 oz/a  |            | A              |                 |                 |                 |                 |                 |
|         | Roundup Power Max             | 35 oz/a    |            | B              |                 |                 |                 |                 |                 |
|         | N-pak ams                     | 1.5 qt/a   |            | B              |                 |                 |                 |                 |                 |
| 8       | Authority XL                  | 4 oz/a     |            | A              | 100.0 a         | 100.0 a         | 100.0 a         | 100.0 a         | 100.0 a         |
|         | Roundup Power Max             | 35 oz/a    |            | B              |                 |                 |                 |                 |                 |
|         | N-pak ams                     | 1.5 qt/a   |            | B              |                 |                 |                 |                 |                 |

# The Ohio State University

## Conventional Till Soybean Showcase Treatments

Trial ID: 16 SHOWCASE  
 Protocol ID: 16 SHOWCASE  
 Project ID: EHL50Y02/DAS SHO

Location: Western Branch  
 Investigator: Dr. Mark M. Loux  
 Study Director: Bryan Reeb  
 Sponsor Contact: Dain Bruns, SYN/Bruce Maddy Dow

Trial Year: 2016

| Pest Type                     | W Weed          | W Weed          | W Weed          | W Weed          | W Weed          |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Pest Code                     | ECHCG           | AMBTR           | CHEAL           | AMARE           | ABUTH           |
| Pest Scientific Name          | Echinochloa cr> | Ambrosia trifi> | Chenopodium al> | Amaranthus ret> | Abutilon theop> |
| Pest Name                     | Common barnyar> | Giant ragweed   | Common lambsqu> | Redroot pigweed | velvetleaf      |
| Rating Date                   | 7-20-2016       | 7-20-2016       | 7-20-2016       | 7-20-2016       | 7-20-2016       |
| Rating Type                   | CONTRO          | CONTRO          | CONTRO          | CONTRO          | CONTRO          |
| Rating Unit                   | %               | %               | %               | %               | %               |
| Number of Subsamples          | 1               | 1               | 1               | 1               | 1               |
| SE Group No.                  | 19              | 20              | 21              | 22              | 23              |
| Days After First/Last Applic. | 56 22           | 56 22           | 56 22           | 56 22           | 56 22           |
| Trt-Eval Interval             |                 |                 |                 |                 |                 |
| Plant-Eval Interval           | 56 DP-1         | 56 DP-1         | 56 DP-1         | 56 DP-1         | 56 DP-1         |
| Days After Emergence          | 49 DE-1         | 49 DE-1         | 49 DE-1         | 49 DE-1         | 49 DE-1         |

| Trt No. | Treatment Name       | Other Rate | Other Rate | Appl Unit Code | 19*      | 20*      | 21*      | 22*      | 23*      |
|---------|----------------------|------------|------------|----------------|----------|----------|----------|----------|----------|
| 9       | Enlite @ 2.8oz       |            |            |                | 100.0 a  | 100.0 a  | 100.0 a  | 100.0 a  | 100.0 a  |
|         | Valor SX             | 2.0 oz/a   |            | A              |          |          |          |          |          |
|         | Classic              | 0.32 oz/a  |            | A              |          |          |          |          |          |
|         | Harmony GT           | 0.49 oz/a  |            | A              |          |          |          |          |          |
|         | Roundup Power Max    | 35 oz/a    |            | B              |          |          |          |          |          |
|         | N-pak ams            | 1.5 qt/a   |            | B              |          |          |          |          |          |
| 10      | Sonic                | 4 oz/a     |            | A              | 100.0 a  | 100.0 a  | 100.0 a  | 100.0 a  | 100.0 a  |
|         | Roundup Power Max    | 35 oz/a    |            | B              |          |          |          |          |          |
|         | N-pak ams            | 1.5 qt/a   |            | B              |          |          |          |          |          |
| 11      | Rowel FX             | 3 oz/a     |            | A              | 100.0 a  | 100.0 a  | 100.0 a  | 100.0 a  | 100.0 a  |
|         | Warrant Ultra        | 60 oz/a    |            | A              |          |          |          |          |          |
|         | Roundup Power Max    | 35 oz/a    |            | B              |          |          |          |          |          |
|         | N-pak ams            | 1.5 qt/a   |            | B              |          |          |          |          |          |
| 12      | Sonic                | 4 oz/a     |            | A              | 100.0 a  | 97.5 a   | 100.0 a  | 100.0 a  | 100.0 a  |
|         | Metribuzin           | 4 oz/a     |            | A              |          |          |          |          |          |
|         | Durango DMA          | 1 qt/a     |            | C              |          |          |          |          |          |
|         | N-pak ams            | 1.5 qt/a   |            | C              |          |          |          |          |          |
| 13      | Sonic                | 6 oz/a     |            | A              | 100.0 a  | 97.5 a   | 100.0 a  | 100.0 a  | 100.0 a  |
|         | Durango DMA          | 1 qt/a     |            | C              |          |          |          |          |          |
|         | N-pak ams            | 1.5 qt/a   |            | C              |          |          |          |          |          |
| 14      | Surveil Premix       | 2.8 oz/a   |            | A              | 100.0 a  | 100.0 a  | 100.0 a  | 100.0 a  | 100.0 a  |
|         | Durango DMA          | 1 qt/a     |            | C              |          |          |          |          |          |
|         | N-pak ams            | 1.5 qt/a   |            | C              |          |          |          |          |          |
| 15      | Surveil Premix       | 4.2 oz/a   |            | A              | 100.0 a  | 100.0 a  | 100.0 a  | 100.0 a  | 100.0 a  |
|         | Durango DMA          | 1 qt/a     |            | C              |          |          |          |          |          |
|         | N-pak ams            | 1.5 qt/a   |            | C              |          |          |          |          |          |
| 16      | Canopy Blend @ 7.5oz |            |            |                | 100.0 a  | 99.3 a   | 100.0 a  | 100.0 a  | 100.0 a  |
|         | Classic              | 2.48 oz/a  |            | A              |          |          |          |          |          |
|         | Metribuzin           | 5 oz/a     |            | A              |          |          |          |          |          |
|         | Roundup Power Max    | 35 oz/a    |            | B              |          |          |          |          |          |
|         | N-pak ams            | 1.5 qt/a   |            | B              |          |          |          |          |          |
|         | LSD P=.05            |            |            |                |          | 8.76     |          |          |          |
|         | Standard Deviation   |            |            |                | 0.00     | 6.15     | 0.00     | 0.00     | 0.00     |
|         | CV                   |            |            |                | 0.0      | 6.72     | 0.0      | 0.0      | 0.0      |
|         | Bartlett's X2        |            |            |                | 0.0      | 17.371   | 0.0      | 0.0      | 0.0      |
|         | P(Bartlett's X2)     |            |            |                |          | 0.008*   |          |          |          |
|         | Skewness             |            |            |                | -3.7021* | -3.2859* | -3.7021* | -3.7021* | -3.7021* |
|         | Kurtosis             |            |            |                | 12.0825* | 9.8081*  | 12.0825* | 12.0825* | 12.0825* |
|         | Replicate F          |            |            |                | 0.000    | 3.581    | 0.000    | 0.000    | 0.000    |
|         | Replicate Prob(F)    |            |            |                | 1.0000   | 0.0209   | 1.0000   | 1.0000   | 1.0000   |
|         | Treatment F          |            |            |                | 0.000    | 64.730   | 0.000    | 0.000    | 0.000    |
|         | Treatment Prob(F)    |            |            |                | 1.0000   | 0.0001   | 1.0000   | 1.0000   | 1.0000   |

# The Ohio State University

## Conventional Till Soybean Showcase Treatments

Trial ID: 16 SHOWCASE  
 Protocol ID: 16 SHOWCASE  
 Project ID: EHLISOY02/DAS SHO

Location: Western Branch  
 Investigator: Dr. Mark M. Loux  
 Study Director: Bryan Reeb  
 Sponsor Contact: Dain Bruns, SYN/Bruce Maddy Dow

Trial Year: 2016

|                               |              |
|-------------------------------|--------------|
| Pest Type                     | W Weed       |
| Pest Code                     | SIDSP        |
| Pest Scientific Name          | Sida spinosa |
| Pest Name                     | Prickly sida |
| Rating Date                   | 7-20-2016    |
| Rating Type                   | CONTRO       |
| Rating Unit                   | %            |
| Number of Subsamples          | 1            |
| SE Group No.                  | 24           |
| Days After First/Last Applic. | 56 22        |
| Trt-Eval Interval             |              |
| Plant-Eval Interval           | 56 DP-1      |
| Days After Emergence          | 49 DE-1      |

| Trt No. | Treatment Name    | Other Rate | Other Rate Unit | Appl Code | 24*     |
|---------|-------------------|------------|-----------------|-----------|---------|
| 1       | UTC               |            |                 |           | 0.0 -   |
| 2       | Broadaxe XC       | 25 oz/a    |                 | A         | 100.0 - |
|         | Roundup Power Max | 35 oz/a    |                 | B         |         |
|         | N-pak ams         | 1.5 qt/a   |                 | B         |         |
| 3       | Broadaxe XC       | 25 oz/a    |                 | A         | 100.0 - |
|         | Flexstar GT 3.5   | 3.5 pt/a   |                 | B         |         |
|         | MSO               | 0.6 qt/a   |                 | B         |         |
|         | N-pak ams         | 1.5 qt/a   |                 | B         |         |
| 4       | Boundary          | 1.75 pt/a  |                 | A         | 100.0 - |
|         | Metribuzin        | 3 oz/a     |                 | A         |         |
|         | Flexstar GT 3.5   | 3.5 pt/a   |                 | B         |         |
|         | MSO               | 0.6 qt/a   |                 | B         |         |
|         | N-pak ams         | 1.5 qt/a   |                 | B         |         |
| 5       | Broadaxe XC       | 25 oz/a    |                 | A         | 100.0 - |
|         | Classic           | 1.25 oz/a  |                 | A         |         |
|         | Roundup Power Max | 35 oz/a    |                 | B         |         |
|         | N-pak ams         | 1.5 qt/a   |                 | B         |         |
| 6       | Boundary          | 1.75 pt/a  |                 | A         | 100.0 - |
|         | Prefix            | 2 pt/a     |                 | A         |         |
|         | Roundup Power Max | 35 oz/a    |                 | B         |         |
|         | N-pak ams         | 1.5 qt/a   |                 | B         |         |
| 7       | Valor XLT @ 4oz   |            |                 |           | 100.0 - |
|         | Valor SX          | 2.35 oz/a  |                 | A         |         |
|         | Classic           | 1.65 oz/a  |                 | A         |         |
|         | Roundup Power Max | 35 oz/a    |                 | B         |         |
|         | N-pak ams         | 1.5 qt/a   |                 | B         |         |
| 8       | Authority XL      | 4 oz/a     |                 | A         | 350.0 - |
|         | Roundup Power Max | 35 oz/a    |                 | B         |         |
|         | N-pak ams         | 1.5 qt/a   |                 | B         |         |

# The Ohio State University

## Conventional Till Soybean Showcase Treatments

Trial ID: 16 SHOWCASE      Location: Western Branch      Trial Year: 2016  
 Protocol ID: 16 SHOWCASE      Investigator: Dr. Mark M. Loux  
 Project ID: EHLISOY02/DAS SHO      Study Director: Bryan Reeb  
 Sponsor Contact: Dain Bruns, SYN/Bruce Maddy Dow

Pest Type      W Weed  
 Pest Code      SIDSP  
 Pest Scientific Name      Sida spinosa  
 Pest Name      Prickly sida  
 Rating Date      7-20-2016  
 Rating Type      CONTRO  
 Rating Unit      %  
 Number of Subsamples      1  
 SE Group No.      24  
 Days After First/Last Applic.      56 22  
 Trt-Eval Interval  
 Plant-Eval Interval      56 DP-1  
 Days After Emergence      49 DE-1

| Trt No. | Treatment Name       | Other Rate | Other Rate | Unit | Appl Code | 24*      |
|---------|----------------------|------------|------------|------|-----------|----------|
| 9       | Enlite @ 2.8oz       |            |            |      |           | 100.0 -  |
|         | Valor SX             | 2.0 oz/a   |            |      | A         |          |
|         | Classic              | 0.32 oz/a  |            |      | A         |          |
|         | Harmony GT           | 0.49 oz/a  |            |      | A         |          |
|         | Roundup Power Max    | 35 oz/a    |            |      | B         |          |
|         | N-pak ams            | 1.5 qt/a   |            |      | B         |          |
| 10      | Sonic                | 4 oz/a     |            |      | A         | 100.0 -  |
|         | Roundup Power Max    | 35 oz/a    |            |      | B         |          |
|         | N-pak ams            | 1.5 qt/a   |            |      | B         |          |
| 11      | Rowel FX             | 3 oz/a     |            |      | A         | 100.0 -  |
|         | Warrant Ultra        | 60 oz/a    |            |      | A         |          |
|         | Roundup Power Max    | 35 oz/a    |            |      | B         |          |
|         | N-pak ams            | 1.5 qt/a   |            |      | B         |          |
| 12      | Sonic                | 4 oz/a     |            |      | A         | 100.0 -  |
|         | Metribuzin           | 4 oz/a     |            |      | A         |          |
|         | Durango DMA          | 1 qt/a     |            |      | C         |          |
|         | N-pak ams            | 1.5 qt/a   |            |      | C         |          |
| 13      | Sonic                | 6 oz/a     |            |      | A         | 100.0 -  |
|         | Durango DMA          | 1 qt/a     |            |      | C         |          |
|         | N-pak ams            | 1.5 qt/a   |            |      | C         |          |
| 14      | Surveil Premix       | 2.8 oz/a   |            |      | A         | 100.0 -  |
|         | Durango DMA          | 1 qt/a     |            |      | C         |          |
|         | N-pak ams            | 1.5 qt/a   |            |      | C         |          |
| 15      | Surveil Premix       | 4.2 oz/a   |            |      | A         | 100.0 -  |
|         | Durango DMA          | 1 qt/a     |            |      | C         |          |
|         | N-pak ams            | 1.5 qt/a   |            |      | C         |          |
| 16      | Canopy Blend @ 7.5oz |            |            |      |           | 100.0 -  |
|         | Classic              | 2.48 oz/a  |            |      | A         |          |
|         | Metribuzin           | 5 oz/a     |            |      | A         |          |
|         | Roundup Power Max    | 35 oz/a    |            |      | B         |          |
|         | N-pak ams            | 1.5 qt/a   |            |      | B         |          |
|         | LSD P=.05            |            |            |      |           | 178.02   |
|         | Standard Deviation   |            |            |      |           | 125.00   |
|         | CV                   |            |            |      |           | 114.29   |
|         | Bartlett's X2        |            |            |      |           | 0.0      |
|         | P(Bartlett's X2)     |            |            |      |           | .        |
|         | Skewness             |            |            |      |           | 7.5301*  |
|         | Kurtosis             |            |            |      |           | 59.2613* |
|         | Replicate F          |            |            |      |           | 1.000    |
|         | Replicate Prob(F)    |            |            |      |           | 0.4016   |
|         | Treatment F          |            |            |      |           | 1.213    |
|         | Treatment Prob(F)    |            |            |      |           | 0.2973   |

# The Ohio State University

## Conventional Till Soybean Showcase Treatments

Trial ID: 16 SHOWCASE  
Protocol ID: 16 SHOWCASE  
Project ID: EHLISOY02/DAS SHO

Location: Western Branch  
Investigator: Dr. Mark M. Loux  
Study Director: Bryan Reeb  
Sponsor Contact: Dain Bruns, SYN/Bruce Maddy Dow

Trial Year: 2016

### Pest Type

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

### Pest Code

SETFA, *Setaria faberi*, = US  
ECHCG, *Echinochloa crus-galli*, = US  
AMBTR, *Ambrosia trifida*, = US  
CHEAL, *Chenopodium album*, = US  
AMARE, *Amaranthus retroflexus*, = US  
ABUTH, *Abutilon theophrasti*, = US  
SIDSP, *Sida spinosa*, = US

### Rating Type

PHYGEN = phytotoxicity - general / injury  
CONTRO = control / burndown or knockdown

### Rating Unit

% = percent

### Plant-Eval Interval

21 DP-1 = 1 GLXMA 5-25-2016  
28 DP-1 = 1 GLXMA 5-25-2016  
56 DP-1 = 1 GLXMA 5-25-2016