

Purdue Weed Science

Conventional Till Programs for BOLT Soybean

Trial ID: 16S-TPAC-SOY-20 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-SOY-20 Investigator: Dr. Bill Johnson
 Project ID: USA-16-156 Study Director: Joe Ikley
 Sponsor Contact: Dupont - Kelly Barnett

General Trial Information

Study Director: Joe Ikley **Title:** Research Associate
Investigator: Dr. Bill Johnson **Title:** Professor

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Joe Ikley **Title:** Research Associate
Organization: Purdue University
Address: 915 West State Street **Phone No.:** 765-494-0891
City+State/Prov: West Lafayette **Mobile No.:** 410-596-9091
Postal Code: 47907 **E-mail:** jikley@purdue.edu

Investigator: Dr. Bill Johnson **Title:** Professor
Organization: Purdue University
Address: 915 West State Street **Phone No.:** 765-494-4656
City+State/Prov: West Lafayette **Mobile No.:** 765-404-9801
Postal Code: 47907 **E-mail:** wgj@purdue.edu

Cooperator/Landowner

Cooperator: Jay Young **Role:** Superintendent
Organization: Purdue University
Address 1: 8343 US 231 S
City: Lafayette **Phone No.:** 765-538-3422
State/Prov: IN **Fax No.:** 765-538-3423
Postal Code: 47909
Country: USA United States **E-mail:** jayyoung@purdue.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: P38T61BR
Description: BOLT
Planting Rate, Unit: 140000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 15 IN
Soil Temperature, Unit: 60 F
Soil Moisture: SLIWET slightly wet, moist
Planting Date: May-16-2016
Planting Method: SEEDED seeded
Planting Equipment: PP Plot Planter
Emergence Date: May-25-2016

Pest Description

Pest 1 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 2 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 300 FT2 **Treatments:** 10 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: TPAC - Field 4B
% OM: 2.9 **Texture:** SIL silt loam
pH: 6.2 **Soil Name:** Toronto-Millbrook
CEC: 13.3

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Application Description

| | A | B |
|--------------------------------|-------------|------------|
| Application Date: | May-18-2016 | Jun-7-2016 |
| Appl. Start Time: | 10:00 AM | 7:00 AM |
| Appl. Stop Time: | 10:30 AM | 7:15 AM |
| Application Method: | SPRAY | SPRAY |
| Application Timing: | PRE | POST |
| Application Placement: | BROADC | BROADC |
| Applied By: | TC | PD |
| Air Temperature, Unit: | 58 F | 54 F |
| % Relative Humidity: | 70 | 90 |
| Wind Velocity, Unit: | 5 MPH | 1 MPH |
| Wind Direction: | ENE | W |
| Dew Presence (Y/N): | N no | Y yes |
| Soil Temperature, Unit: | 62 F | 65 F |
| Soil Moisture: | SLIWET | WET |
| % Cloud Cover: | 30 | 0 |

Crop Stage At Each Application

| | A | B |
|---------------------------------|------------|------------|
| Crop 1 Code, BBCH Scale: | GLXMA BSOY | GLXMA BSOY |
| Stage Scale Used: | | BBCH |
| Stage Majority, Percent: | | 13 |
| Stage Minimum, Percent: | | 12 |
| Stage Maximum, Percent: | | 13 |
| Height, Unit: | | 3.5 IN |
| Height Minimum, Maximum: | | 3 4 |

Pest Stage At Each Application

| | A | B |
|----------------------------------|---------|---------|
| Pest 1 Code, Type, Scale: | AMBTR W | AMBTR W |
| Stage Majority, Percent: | | 32G |
| Stage Minimum, Percent: | | 31G |
| Stage Maximum, Percent: | | 33G |
| Height, Unit: | | 3 IN |
| Height Minimum, Maximum: | | 2 4 |
| Density, Unit: | | 75 YD2 |
| Pest 2 Code, Type, Scale: | SETFA W | SETFA W |
| Stage Majority, Percent: | | 13 |
| Stage Minimum, Percent: | | 11 |
| Stage Maximum, Percent: | | 15 |
| Height, Unit: | | 2.5 IN |
| Height Minimum, Maximum: | | 1 4 |
| Density, Unit: | | 35 YD2 |

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Application Equipment

| | A | B |
|----------------------------------|--------------|--------------|
| Appl. Equipment: | CO2 BACKPACK | CO2 BACKPACK |
| Equipment Type: | BACSPR | BACSPR |
| Operation Pressure, Unit: | 18 PSI | 18 PSI |
| Nozzle Type: | FLAT FAN | FLAT FAN |
| Nozzle Size: | XR 11002 | XR 11002 |
| Nozzle Spacing, Unit: | 15 IN | 15 IN |
| Nozzles/Row: | 8 | 8 |
| Boom Length, Unit: | 10 FT | 10 FT |
| Boom Height, Unit: | 17 IN | 17 IN |
| Ground Speed, Unit: | 3 MPH | 3 MPH |
| Carrier: | MEIGS | MEIGS |
| Spray Volume, Unit: | 15 gal/ac | 15 gal/ac |
| Mix Size, Unit: | 1.8 liters | 1.8 liters |
| Propellant: | CO2 | CO2 |

Trial Comments

Reps: 4 Plots: 10 by 30 feet
 Spray vol: 15 GAL/AC Mix Size: 1.8 liters (calculated mix size 1.5642)

| Trt No. | Treatment Name | Form Conc | Form Unit | Form Type | Rate | Unit | Appl Code | Amt Product to Measure | Rep | | | |
|---------|-------------------------|--------------|-----------|-----------|---------------|------|-----------|------------------------|-----|-----|-----|-----|
| | | | | | | | | | 1 | 2 | 3 | 4 |
| 1 | Untreated Check | | | | | | | | 101 | 405 | 502 | 702 |
| 2 | BASIS BLEND @ 1.25 OZ/A | | | | | | | | 102 | 303 | 503 | 704 |
| | RESOLVE | 25 % | | DF | 0.25 oz ai/a | A | | 0.8987 g/mx | | | | |
| | HARMONY SG | 50 % | | SG | 0.125 oz ai/a | A | | 0.2247 g/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 22 fl oz/a | B | | 20.62 ml/mx | | | | |
| | SYNCHRONY @ 1.16 OZ/A | | | | | | | | | | | |
| | CLASSIC | 25 % | | WG | 0.24 oz ai/a | B | | 0.8627 g/mx | | | | |
| 3 | HARMONY SG | 50 % | | SG | 0.08 oz ai/a | B | | 0.1438 g/mx | | | | |
| | N-PAK - AMS | 3.4 LBA/GAL | | L | 5 % v/v | B | | 89.99 ml/mx | | | | |
| | VALOR SX | 51 % | | WG | 1.02 oz ai/a | A | | 1.797 g/mx | 103 | 302 | 504 | 801 |
| | BASIS BLEND @ 1.25 OZ/A | | | | | | | | | | | |
| | RESOLVE | 25 % | | DF | 0.25 oz ai/a | A | | 0.8987 g/mx | | | | |
| | HARMONY SG | 50 % | | SG | 0.125 oz ai/a | A | | 0.2247 g/mx | | | | |
| 4 | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 22 fl oz/a | B | | 20.62 ml/mx | | | | |
| | SYNCHRONY @ 1.16 OZ/A | | | | | | | | | | | |
| | CLASSIC | 25 % | | WG | 0.24 oz ai/a | B | | 0.8627 g/mx | | | | |
| | HARMONY SG | 50 % | | SG | 0.08 oz ai/a | B | | 0.1438 g/mx | | | | |
| | N-PAK - AMS | 3.4 LBA/GAL | | L | 5 % v/v | B | | 89.99 ml/mx | | | | |
| | ENVIVE @ 3.5 OZ/A | | | | | | | | 104 | 401 | 604 | 803 |
| | RESOLVE | 25 % | | DF | 0.25 oz ai/a | A | | 0.8987 g/mx | | | | |
| | HARMONY SG | 50 % | | SG | 0.35 oz ai/a | A | | 0.6291 g/mx | | | | |
| | VALOR SX | 51 % | | WG | 1.02 oz ai/a | A | | 1.797 g/mx | | | | |
| | CLASSIC | 25 % | | WG | 0.32 oz ai/a | A | | 1.15 g/mx | | | | |

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 Project ID: USA-16-156 Study Director: Joe Ikley
 Sponsor Contact: Dupont - Kelly Barnett

Reps: 4 Plots: 10 by 30 feet
 Spray vol: 15 GAL/AC Mix Size: 1.8 liters (calculated mix size 1.5642)

| Trt No. | Treatment Name | Form Conc | Form Unit | Form Type | Rate | Appl Unit | Appl Code | Amt to Measure | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
|-------------|-------------------------|--------------|-----------|--------------|---------------|-----------|-------------|----------------|-------|-------|-------|-------|
| 5 | BASIS BLEND @ 1.25 OZ/A | | | | | | | | 105 | 304 | 603 | 701 |
| | RESOLVE | 25 % | | DF | 0.25 oz ai/a | A | | 0.8987 g/mx | | | | |
| | HARMONY SG | 50 % | | SG | 0.125 oz ai/a | A | | 0.2247 g/mx | | | | |
| | CANOPY BLEND @ 7.5 OZ/A | | | | | | | | | | | |
| | CLASSIC | 25 % | | WG | 0.62 oz ai/a | A | | 2.229 g/mx | | | | |
| | SENCOR | 75 % | | WG | 3.75 oz ai/a | A | | 4.493 g/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 22 fl oz/a | B | | 20.62 ml/mx | | | | |
| | SYNCHRONY @ 1.16 OZ/A | | | | | | | | | | | |
| | CLASSIC | 25 % | | WG | 0.24 oz ai/a | B | | 0.8627 g/mx | | | | |
| HARMONY SG | 50 % | | SG | 0.08 oz ai/a | B | | 0.1438 g/mx | | | | | |
| N-PAK - AMS | 3.4 LBA/GAL | | L | 5 % v/v | B | | 89.99 ml/mx | | | | | |
| 6 | DILIGENT | | | | | | | | 201 | 305 | 605 | 703 |
| | VALOR SX | 51 % | | WG | 1.01 oz ai/a | A | | 1.78 g/mx | | | | |
| | RESOLVE | 25 % | | DF | 0.25 oz ai/a | A | | 0.8987 g/mx | | | | |
| | CLASSIC | 25 % | | WG | 0.25 oz ai/a | A | | 0.8987 g/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 22 fl oz/a | B | | 20.62 ml/mx | | | | |
| | SYNCHRONY @ 1.16 OZ/A | | | | | | | | | | | |
| | CLASSIC | 25 % | | WG | 0.24 oz ai/a | B | | 0.8627 g/mx | | | | |
| | HARMONY SG | 50 % | | SG | 0.08 oz ai/a | B | | 0.1438 g/mx | | | | |
| | N-PAK - AMS | 3.4 LBA/GAL | | L | 5 % v/v | B | | 89.99 ml/mx | | | | |
| 7 | ENVIVE @ 3.5 OZ/A | | | | | | | | 202 | 403 | 602 | 804 |
| | VALOR SX | 51 % | | WG | 1.02 oz ai/a | A | | 1.797 g/mx | | | | |
| | CLASSIC | 25 % | | WG | 0.32 oz ai/a | A | | 1.15 g/mx | | | | |
| | HARMONY SG | 50 % | | SG | 0.1 oz ai/a | A | | 0.1797 g/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 22 fl oz/a | B | | 20.62 ml/mx | | | | |
| | SYNCHRONY @ 1.16 OZ/A | | | | | | | | | | | |
| | CLASSIC | 25 % | | WG | 0.24 oz ai/a | B | | 0.8627 g/mx | | | | |
| | HARMONY SG | 50 % | | SG | 0.08 oz ai/a | B | | 0.1438 g/mx | | | | |
| | N-PAK - AMS | 3.4 LBA/GAL | | L | 5 % v/v | B | | 89.99 ml/mx | | | | |
| 8 | VALOR SX | 51 % | | WG | 1.02 oz ai/a | A | | 1.797 g/mx | 203 | 404 | 501 | 805 |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 22 fl oz/a | B | | 20.62 ml/mx | | | | |
| | SYNCHRONY @ 1.16 OZ/A | | | | | | | | | | | |
| | CLASSIC | 25 % | | WG | 0.24 oz ai/a | B | | 0.8627 g/mx | | | | |
| | HARMONY SG | 50 % | | SG | 0.08 oz ai/a | B | | 0.1438 g/mx | | | | |
| N-PAK - AMS | 3.4 LBA/GAL | | L | 5 % v/v | B | | 89.99 ml/mx | | | | | |
| 9 | FIERCE XLT | 62.41 % | | WG | 4.5 oz/a | A | | 4.044 g/mx | 204 | 402 | 505 | 705 |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 32 fl oz/a | B | | 30.0 ml/mx | | | | |
| | N-PAK - AMS | 3.4 LBA/GAL | | L | 5 % v/v | B | | 89.99 ml/mx | | | | |
| 10 | Untreated Check | | | | | | | | 205 | 301 | 601 | 802 |

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

| Amount* | Unit | Treatment Name | Form Conc | Form Type | Lot Code |
|---------|------|------------------|-----------|-----------|----------|
| 5.617 | g | RESOLVE | 25 | DF | |
| 3.112 | g | HARMONY SG | 50 | SG | |
| 217.969 | ml | ROUNDUP POWERMAX | 4.5 | SL | |
| 14.334 | g | CLASSIC | 25 | WG | |
| 899.902 | ml | N-PAK - AMS | 3.4 | L | |
| 11.212 | g | VALOR SX | 51 | WG | |
| 5.617 | g | SENCOR | 75 | WG | |
| 5.055 | g | FIERCE XLT | 62.41 | WG | |

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| Protocol ID: 16S-TPAC-SOY-20 | Investigator: Dr. Bill Johnson | |
| Project ID: USA-16-156 | Study Director: Joe Ikley | |
| | Sponsor Contact: Dupont - Kelly Barnett | |

Product quantities required for listed treatments and applications of trials included in this table:

* 'Per area' calculations based on spray volume= 15 GAL/AC, mix size= 1.8 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 1.8 liters.

| Pest Type | | | | | | |
|-------------------------------|-----------------|-----------|-------------|----|-------------|----|
| Pest Code | | | | | | |
| Pest Name | | | | | | |
| Crop Code | GLXMA | | | | GLXMA | |
| Crop Name | Soybean | | | | Soybean | |
| Part Rated | PLOT C | | PLOT P | | PLOT C | |
| Rating Date | May-31-2016 | | May-31-2016 | | May-31-2016 | |
| Rating Type | PHYGEN | | CONTRO | | CONTRO | |
| Rating Unit | % | | % | | % | |
| Number of Subsamples | 1 | | 1 | | 1 | |
| Days After First/Last Applic. | 13 13 | | 13 13 | | 20 20 | |
| Trt-Eval Interval | 13 DA-A | | 13 DA-A | | 0 DA-B | |
| Days After Emergence | 6 DE-1 | | 6 DE-1 | | 13 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 | 4 |
| 1 Untreated Check | | 101 | 0 | 0 | 0 | 0 |
| | | 405 | 0 | 0 | 0 | 0 |
| | | 502 | 0 | 0 | 0 | 0 |
| | | 702 | 0 | 0 | 0 | 0 |
| | | Mean = | 0 | 0 | 0 | 0 |
| 2 BASIS BLEND @ 1.25 OZ/A | | 102 | 0 | 20 | 90 | 0 |
| RESOLVE | 0.25 oz ai/a A | 303 | 0 | 90 | 90 | 0 |
| HARMONY SG | 0.125 oz ai/a A | 503 | 0 | 80 | 100 | 0 |
| ROUNDUP POWERMAX | 22 fl oz/a B | 704 | 0 | 80 | 90 | 5 |
| SYNCHRONY @ 1.16 OZ/A | | | | | | |
| CLASSIC | 0.24 oz ai/a B | | | | | |
| HARMONY SG | 0.08 oz ai/a B | | | | | |
| N-PAK - AMS | 5 % v/v B | | | | | |
| | | Mean = | 0 | 68 | 93 | 1 |
| 3 VALOR SX | 1.02 oz ai/a A | 103 | 5 | 80 | 100 | 10 |
| BASIS BLEND @ 1.25 OZ/A | | 302 | 5 | 50 | 90 | 5 |
| RESOLVE | 0.25 oz ai/a A | 504 | 5 | 90 | 90 | 5 |
| HARMONY SG | 0.125 oz ai/a A | 801 | 5 | 20 | 80 | 10 |
| ROUNDUP POWERMAX | 22 fl oz/a B | | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | |
| CLASSIC | 0.24 oz ai/a B | | | | | |
| HARMONY SG | 0.08 oz ai/a B | | | | | |
| N-PAK - AMS | 5 % v/v B | | | | | |
| | | Mean = | 5 | 60 | 90 | 8 |
| 4 BASIS BLEND @ 1.25 OZ/A | | 104 | 5 | 95 | 100 | 5 |
| ENVIVE @ 3.5 OZ/A | | 401 | 0 | 20 | 90 | 5 |
| RESOLVE | 0.25 oz ai/a A | 604 | 5 | 90 | 100 | 5 |
| HARMONY SG | 0.35 oz ai/a A | 803 | 15 | 70 | 100 | 15 |
| VALOR SX | 1.02 oz ai/a A | | | | | |
| CLASSIC | 0.32 oz ai/a A | | | | | |
| ROUNDUP POWERMAX | 22 fl oz/a B | | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | |
| CLASSIC | 0.24 oz ai/a B | | | | | |
| HARMONY SG | 0.08 oz ai/a B | | | | | |
| N-PAK - AMS | 5 % v/v B | | | | | |
| | | Mean = | 6 | 69 | 98 | 8 |

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 Sponsor Contact: Dupont - Kelly Barnett

| Pest Type | | | W Weed AMBTR Giant ragweed | W Weed SETFA Giant foxtail | W Weed AMBTR Giant ragweed | | |
|-------------------------------|-----------------|-----------|----------------------------------|----------------------------------|----------------------------------|----|----|
| Pest Code | | | | | | | |
| Pest Name | | | | | | | |
| Crop Code | GLXMA | | | | GLXMA | | |
| Crop Name | Soybean | | | | Soybean | | |
| Part Rated | PLOT C | | PLOT P | PLOT P | PLOT C | | |
| Rating Date | May-31-2016 | | May-31-2016 | May-31-2016 | Jun-7-2016 | | |
| Rating Type | PHYGEN | | CONTRO | CONTRO | PHYGEN | | |
| Rating Unit | % | | % | % | % | | |
| Number of Subsamples | 1 | | 1 | 1 | 1 | | |
| Days After First/Last Applic. | 13 13 | | 13 13 | 13 13 | 20 20 | | |
| Trt-Eval Interval | 13 DA-A | | 13 DA-A | 13 DA-A | 0 DA-B | | |
| Days After Emergence | 6 DE-1 | | 6 DE-1 | 6 DE-1 | 13 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 Plot | 1 | 2 | 3 | | |
| | | | 4 | 5 | | | |
| 5 BASIS BLEND @ 1.25 OZ/A | | 105 | 0 | 85 | 70 | 0 | 90 |
| RESOLVE | 0.25 oz ai/a A | 304 | 0 | 90 | 100 | 0 | 90 |
| HARMONY SG | 0.125 oz ai/a A | 603 | 0 | 80 | 100 | 0 | 80 |
| CANOPY BLEND @ 7.5 OZ/A | | 701 | 0 | 30 | 50 | 5 | 30 |
| CLASSIC | 0.62 oz ai/a A | | | | | | |
| SENCOR | 3.75 oz ai/a A | | | | | | |
| ROUNDUP POWERMAX | 22 fl oz/a B | | | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | | |
| CLASSIC | 0.24 oz ai/a B | | | | | | |
| HARMONY SG | 0.08 oz ai/a B | | | | | | |
| N-PAK - AMS | 5 % v/v B | | | | | | |
| | | Mean = | 0 | 71 | 80 | 1 | 73 |
| 6 DILIGENT | | 201 | 10 | 20 | 100 | 5 | 40 |
| VALOR SX | 1.01 oz ai/a A | 305 | 5 | 90 | 100 | 5 | 95 |
| RESOLVE | 0.25 oz ai/a A | 605 | 5 | 95 | 100 | 5 | 95 |
| CLASSIC | 0.25 oz ai/a A | 703 | 5 | 90 | 100 | 5 | 95 |
| ROUNDUP POWERMAX | 22 fl oz/a B | | | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | | |
| CLASSIC | 0.24 oz ai/a B | | | | | | |
| HARMONY SG | 0.08 oz ai/a B | | | | | | |
| N-PAK - AMS | 5 % v/v B | | | | | | |
| | | Mean = | 6 | 74 | 100 | 5 | 81 |
| 7 ENVIVE @ 3.5 OZ/A | | 202 | 5 | 70 | 100 | 5 | 60 |
| VALOR SX | 1.02 oz ai/a A | 403 | 10 | 95 | 95 | 10 | 95 |
| CLASSIC | 0.32 oz ai/a A | 602 | 10 | 80 | 100 | 10 | 80 |
| HARMONY SG | 0.1 oz ai/a A | 804 | 0 | 80 | 80 | 5 | 80 |
| ROUNDUP POWERMAX | 22 fl oz/a B | | | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | | |
| CLASSIC | 0.24 oz ai/a B | | | | | | |
| HARMONY SG | 0.08 oz ai/a B | | | | | | |
| N-PAK - AMS | 5 % v/v B | | | | | | |
| | | Mean = | 6 | 81 | 94 | 8 | 79 |
| 8 VALOR SX | 1.02 oz ai/a A | 203 | 10 | 90 | 100 | 10 | 95 |
| ROUNDUP POWERMAX | 22 fl oz/a B | 404 | 10 | 80 | 90 | 5 | 70 |
| SYNCHRONY @ 1.16 OZ/A | | 501 | 10 | 10 | 100 | 10 | 10 |
| CLASSIC | 0.24 oz ai/a B | 805 | 10 | 30 | 90 | 10 | 25 |
| HARMONY SG | 0.08 oz ai/a B | | | | | | |
| N-PAK - AMS | 5 % v/v B | | | | | | |
| | | Mean = | 10 | 53 | 95 | 9 | 50 |
| 9 FIERCE XLT | 4.5 oz/a A | 204 | 30 | 90 | 100 | 30 | 90 |
| ROUNDUP POWERMAX | 32 fl oz/a B | 402 | 30 | 80 | 100 | 30 | 70 |
| N-PAK - AMS | 5 % v/v B | 505 | 25 | 80 | 70 | 30 | 80 |
| | | 705 | 25 | 80 | 80 | 30 | 75 |
| | | Mean = | 28 | 83 | 88 | 30 | 79 |

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| Project ID: USA-16-156 | Study Director: Joe Ikley | |
| | Sponsor Contact: Dupont - Kelly Barnett | |

| Pest Type | W Weed AMBTR Giant ragweed | | W Weed SETFA Giant foxtail | | W Weed AMBTR Giant ragweed | | |
|-------------------------------|----------------------------------|-------------|----------------------------------|------------|----------------------------------|---|---|
| Pest Code | | | | | | | |
| Pest Name | | | | | | | |
| Crop Code | GLXMA | | | GLXMA | | | |
| Crop Name | Soybean | | | Soybean | | | |
| Part Rated | PLOT C | PLOT P | PLOT P | PLOT C | PLOT P | | |
| Rating Date | May-31-2016 | May-31-2016 | May-31-2016 | Jun-7-2016 | Jun-7-2016 | | |
| Rating Type | PHYGEN | CONTRO | CONTRO | PHYGEN | CONTRO | | |
| Rating Unit | % | % | % | % | % | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | | |
| Days After First/Last Applic. | 13 13 | 13 13 | 13 13 | 20 20 | 20 20 | | |
| Trt-Eval Interval | 13 DA-A | 13 DA-A | 13 DA-A | 0 DA-B | 0 DA-B | | |
| Days After Emergence | 6 DE-1 | 6 DE-1 | 6 DE-1 | 13 DE-1 | 13 DE-1 | | |
| ARM Action Codes | P | P | P | P | P | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | | |
| Trt Treatment | Rate | Appl | | | | | |
| No. Name | Rate Unit | Code Plot | 1 | 2 | 3 | 4 | 5 |
| 10 Untreated Check | | 205 | 0 | 0 | 0 | 0 | 0 |
| | | 301 | 0 | 0 | 0 | 0 | 0 |
| | | 601 | 0 | 0 | 0 | 0 | 0 |
| | | 802 | 0 | 0 | 0 | 0 | 0 |
| | | Mean = | 0 | 0 | 0 | 0 | 0 |

Purdue Weed Science

Conventional Till Programs for BOLT Soybean

Trial ID: 16S-TPAC-SOY-20 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-SOY-20 Investigator: Dr. Bill Johnson
 Project ID: USA-16-156 Study Director: Joe Ikley
 Sponsor Contact: Dupont - Kelly Barnett

| Pest Type | W Weed | | | W Weed | W Weed | | | | | |
|-------------------------------|---------------|-------------|-------------|---------------|---------------|------------|---|-----|-----|----|
| Pest Code | SETFA | | | AMBTR | SETFA | | | | | |
| Pest Name | Giant foxtail | | | Giant ragweed | Giant foxtail | | | | | |
| Crop Code | | GLXMA | GLXMA | | | GLXMA | | | | |
| Crop Name | | Soybean | Soybean | | | Soybean | | | | |
| Part Rated | PLOT P | PLOT C | PLOT C | PLOT P | PLOT P | PLOT C | | | | |
| Rating Date | Jun-7-2016 | Jun-15-2016 | Jun-21-2016 | Jun-21-2016 | Jun-21-2016 | Jun-5-2016 | | | | |
| Rating Type | CONTRO | PHYGEN | PHYGEN | CONTRO | CONTRO | PHYGEN | | | | |
| Rating Unit | % | % | % | % | % | % | | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| Days After First/Last Applic. | 20 20 | 28 8 | 34 14 | 34 14 | 34 14 | 48 28 | | | | |
| Trt-Eval Interval | 0 DA-B | 8 DA-B | 14 DA-B | 14 DA-B | 14 DA-B | 28 DA-B | | | | |
| Days After Emergence | 13 DE-1 | 21 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 | 41 DE-1 | | | | |
| ARM Action Codes | P | P | P | P | P | P | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Trt Treatment | Rate | Appl | | | | | | | | |
| No. Name | Rate | Unit | Code | Plot | 6 | 7 | 8 | 9 | 10 | 11 |
| 1 Untreated Check | | | 101 | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 405 | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 502 | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 702 | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | Mean = | | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 BASIS BLEND @ 1.25 OZ/A | | | 102 | | 90 | 0 | 0 | 90 | 100 | 0 |
| RESOLVE | 0.25 oz ai/a | A | 303 | | 70 | 0 | 0 | 95 | 100 | 0 |
| HARMONY SG | 0.125 oz ai/a | A | 503 | | 100 | 0 | 0 | 95 | 100 | 0 |
| ROUNDUP POWERMAX | 22 fl oz/a | B | 704 | | 95 | 0 | 0 | 85 | 100 | 0 |
| SYNCHRONY @ 1.16 OZ/A | | | | | | | | | | |
| CLASSIC | 0.24 oz ai/a | B | | | | | | | | |
| HARMONY SG | 0.08 oz ai/a | B | | | | | | | | |
| N-PAK - AMS | 5 % v/v | B | | | | | | | | |
| | | | Mean = | | 89 | 0 | 0 | 91 | 100 | 0 |
| 3 VALOR SX | 1.02 oz ai/a | A | 103 | | 100 | 10 | 0 | 95 | 100 | 0 |
| BASIS BLEND @ 1.25 OZ/A | | | 302 | | 90 | 5 | 0 | 99 | 100 | 0 |
| RESOLVE | 0.25 oz ai/a | A | 504 | | 95 | 0 | 0 | 90 | 100 | 0 |
| HARMONY SG | 0.125 oz ai/a | A | 801 | | 80 | 0 | 0 | 80 | 100 | 0 |
| ROUNDUP POWERMAX | 22 fl oz/a | B | | | | | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | | | | | |
| CLASSIC | 0.24 oz ai/a | B | | | | | | | | |
| HARMONY SG | 0.08 oz ai/a | B | | | | | | | | |
| N-PAK - AMS | 5 % v/v | B | | | | | | | | |
| | | | Mean = | | 91 | 4 | 0 | 91 | 100 | 0 |
| 4 BASIS BLEND @ 1.25 OZ/A | | | 104 | | 95 | 5 | 0 | 100 | 100 | 0 |
| ENVIVE @ 3.5 OZ/A | | | 401 | | 95 | 0 | 0 | 90 | 100 | 0 |
| RESOLVE | 0.25 oz ai/a | A | 604 | | 95 | 0 | 0 | 95 | 100 | 0 |
| HARMONY SG | 0.35 oz ai/a | A | 803 | | 90 | 5 | 5 | 95 | 100 | 0 |
| VALOR SX | 1.02 oz ai/a | A | | | | | | | | |
| CLASSIC | 0.32 oz ai/a | A | | | | | | | | |
| ROUNDUP POWERMAX | 22 fl oz/a | B | | | | | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | | | | | |
| CLASSIC | 0.24 oz ai/a | B | | | | | | | | |
| HARMONY SG | 0.08 oz ai/a | B | | | | | | | | |
| N-PAK - AMS | 5 % v/v | B | | | | | | | | |
| | | | Mean = | | 94 | 3 | 1 | 95 | 100 | 0 |

Purdue Weed Science

Conventional Till Programs for BOLT Soybean

Trial ID: 16S-TPAC-SOY-20 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-SOY-20 Investigator: Dr. Bill Johnson
 Project ID: USA-16-156 Study Director: Joe Ikley
 Sponsor Contact: Dupont - Kelly Barnett

| Pest Type | W Weed SETFA | | | W Weed AMBTR | W Weed SETFA | | | |
|-------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|-----|----|
| Pest Code | Giant foxtail | | | Giant ragweed | Giant foxtail | | | |
| Pest Name | | GLXMA Soybean | GLXMA Soybean | | | GLXMA Soybean | | |
| Crop Code | | PLOT C | PLOT C | | | PLOT C | | |
| Crop Name | | PHYGEN | PHYGEN | | | PHYGEN | | |
| Part Rated | PLOT P | | | PLOT P | PLOT P | | | |
| Rating Date | Jun-7-2016 | Jun-15-2016 | Jun-21-2016 | Jun-21-2016 | Jun-21-2016 | Jul-5-2016 | | |
| Rating Type | CONTRO | PHYGEN | PHYGEN | CONTRO | CONTRO | PHYGEN | | |
| Rating Unit | % | % | % | % | % | % | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | 1 | | |
| Days After First/Last Applic. | 20 20 | 28 8 | 34 14 | 34 14 | 34 14 | 48 28 | | |
| Trt-Eval Interval | 0 DA-B | 8 DA-B | 14 DA-B | 14 DA-B | 14 DA-B | 28 DA-B | | |
| Days After Emergence | 13 DE-1 | 21 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 | 41 DE-1 | | |
| ARM Action Codes | P | P | P | P | P | P | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Trt Treatment | Rate | Appl | | | | | | |
| No. Name | Rate Unit | Code Plot | 6 | 7 | 8 | 9 | 10 | 11 |
| 5 BASIS BLEND @ 1.25 OZ/A | | 105 | | 0 | 0 | 99 | 100 | 0 |
| RESOLVE | 0.25 oz ai/a A | 304 | 100 | 0 | 0 | 95 | 100 | 0 |
| HARMONY SG | 0.125 oz ai/a A | 603 | 100 | 0 | 0 | 99 | 100 | 0 |
| CANOPY BLEND @ 7.5 OZ/A | | 701 | 30 | 0 | 0 | 90 | 100 | 0 |
| CLASSIC | 0.62 oz ai/a A | | | | | | | |
| SENCOR | 3.75 oz ai/a A | | | | | | | |
| ROUNDUP POWERMAX | 22 fl oz/a B | | | | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | | | |
| CLASSIC | 0.24 oz ai/a B | | | | | | | |
| HARMONY SG | 0.08 oz ai/a B | | | | | | | |
| N-PAK - AMS | 5 % v/v B | | | | | | | |
| | Mean = | | 75 | 0 | 0 | 96 | 100 | 0 |
| 6 DILIGENT | | 201 | 95 | 0 | 0 | 90 | 100 | 0 |
| VALOR SX | 1.01 oz ai/a A | 305 | 100 | 0 | 0 | 95 | 100 | 0 |
| RESOLVE | 0.25 oz ai/a A | 605 | 95 | 0 | 0 | 100 | 100 | 0 |
| CLASSIC | 0.25 oz ai/a A | 703 | 95 | 5 | 0 | 95 | 100 | 0 |
| ROUNDUP POWERMAX | 22 fl oz/a B | | | | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | | | |
| CLASSIC | 0.24 oz ai/a B | | | | | | | |
| HARMONY SG | 0.08 oz ai/a B | | | | | | | |
| N-PAK - AMS | 5 % v/v B | | | | | | | |
| | Mean = | | 96 | 1 | 0 | 95 | 100 | 0 |
| 7 ENVIVE @ 3.5 OZ/A | | 202 | 95 | 0 | 0 | 99 | 99 | 0 |
| VALOR SX | 1.02 oz ai/a A | 403 | 95 | 5 | 0 | 100 | 100 | 0 |
| CLASSIC | 0.32 oz ai/a A | 602 | 100 | 0 | 0 | 95 | 100 | 0 |
| HARMONY SG | 0.1 oz ai/a A | 804 | 95 | 0 | 0 | 90 | 100 | 0 |
| ROUNDUP POWERMAX | 22 fl oz/a B | | | | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | | | |
| CLASSIC | 0.24 oz ai/a B | | | | | | | |
| HARMONY SG | 0.08 oz ai/a B | | | | | | | |
| N-PAK - AMS | 5 % v/v B | | | | | | | |
| | Mean = | | 96 | 1 | 0 | 96 | 100 | 0 |
| 8 VALOR SX | 1.02 oz ai/a A | 203 | 100 | 5 | 0 | 100 | 100 | 0 |
| ROUNDUP POWERMAX | 22 fl oz/a B | 404 | 95 | 0 | 5 | 95 | 100 | 0 |
| SYNCHRONY @ 1.16 OZ/A | | 501 | 100 | 5 | 10 | 80 | 100 | 0 |
| CLASSIC | 0.24 oz ai/a B | 805 | 95 | 5 | 5 | 80 | 100 | 0 |
| HARMONY SG | 0.08 oz ai/a B | | | | | | | |
| N-PAK - AMS | 5 % v/v B | | | | | | | |
| | Mean = | | 98 | 4 | 5 | 89 | 100 | 0 |
| 9 FIERCE XLT | 4.5 oz/a A | 204 | 100 | 15 | 10 | 100 | 100 | 0 |
| ROUNDUP POWERMAX | 32 fl oz/a B | 402 | 100 | 10 | 10 | 99 | 100 | 0 |
| N-PAK - AMS | 5 % v/v B | 505 | 90 | 10 | 5 | 95 | 100 | 0 |
| | | 705 | 95 | 5 | 5 | 90 | 100 | 0 |
| | Mean = | | 96 | 10 | 8 | 96 | 100 | 0 |

Purdue Weed Science

Conventional Till Programs for BOLT Soybean

Trial ID: 16S-TPAC-SOY-20 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-SOY-20 Investigator: Dr. Bill Johnson
 Project ID: USA-16-156 Study Director: Joe Ikley
 Sponsor Contact: Dupont - Kelly Barnett

| Pest Type | W Weed | | | W Weed | W Weed | | | | |
|-------------------------------|---------------|-------------|-------------|---------------|---------------|------------|---|----|----|
| Pest Code | SETFA | | | AMBTR | SETFA | | | | |
| Pest Name | Giant foxtail | | | Giant ragweed | Giant foxtail | | | | |
| Crop Code | | GLXMA | GLXMA | | | GLXMA | | | |
| Crop Name | | Soybean | Soybean | | | Soybean | | | |
| Part Rated | PLOT P | PLOT C | PLOT C | PLOT P | PLOT P | PLOT C | | | |
| Rating Date | Jun-7-2016 | Jun-15-2016 | Jun-21-2016 | Jun-21-2016 | Jun-21-2016 | Jul-5-2016 | | | |
| Rating Type | CONTRO | PHYGEN | PHYGEN | CONTRO | CONTRO | PHYGEN | | | |
| Rating Unit | % | % | % | % | % | % | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| Days After First/Last Applic. | 20 20 | 28 8 | 34 14 | 34 14 | 34 14 | 48 28 | | | |
| Trt-Eval Interval | 0 DA-B | 8 DA-B | 14 DA-B | 14 DA-B | 14 DA-B | 28 DA-B | | | |
| Days After Emergence | 13 DE-1 | 21 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 | 41 DE-1 | | | |
| ARM Action Codes | P | P | P | P | P | P | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Trt Treatment | Rate | Appl | | | | | | | |
| No. Name | Rate | Unit | Code | Plot | | | | | |
| 10 Untreated Check | 205 | | | 6 | 7 | 8 | 9 | 10 | 11 |
| | 301 | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | 601 | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | 802 | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | Mean = | | | 0 | 0 | 0 | 0 | 0 | 0 |

Purdue Weed Science

Conventional Till Programs for BOLT Soybean

| | | |
|------------------------------|---|------------------|
| Trial ID: 16S-TPAC-SOY-20 | Location: TPAC | Trial Year: 2016 |
| Protocol ID: 16S-TPAC-SOY-20 | Investigator: Dr. Bill Johnson | |
| Project ID: USA-16-156 | Study Director: Joe Ikley | |
| | Sponsor Contact: Dupont - Kelly Barnett | |

| Pest Type | W Weed | W Weed | W Weed | W Weed |
|-------------------------------|-----------------|---------------|---------------|---------------|
| Pest Code | AMBTR | SETFA | AMBTR | SETFA |
| Pest Name | Giant ragweed | Giant foxtail | Giant ragweed | Giant foxtail |
| Crop Code | | | | |
| Crop Name | | | | |
| Part Rated | PLOT P | PLOT P | PLOT P | PLOT P |
| Rating Date | Jul-5-2016 | Jul-5-2016 | Jul-19-2016 | Jul-19-2016 |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 48 28 | 48 28 | 62 42 | 62 42 |
| Trt-Eval Interval | 28 DA-B | 28 DA-B | 42 DA-B | 42 DA-B |
| Days After Emergence | 41 DE-1 | 41 DE-1 | 55 DE-1 | 55 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 Plot | 12 | 13 |
| 1 Untreated Check | | 101 | 0 | 0 |
| | | 405 | 0 | 0 |
| | | 502 | 0 | 0 |
| | | 702 | 0 | 0 |
| | | Mean = | 0 | 0 |
| 2 BASIS BLEND @ 1.25 OZ/A | | 102 | 85 | 100 |
| RESOLVE | 0.25 oz ai/a A | 303 | 95 | 100 |
| HARMONY SG | 0.125 oz ai/a A | 503 | 95 | 100 |
| ROUNDUP POWERMAX | 22 fl oz/a B | 704 | 95 | 100 |
| SYNCHRONY @ 1.16 OZ/A | | | | |
| CLASSIC | 0.24 oz ai/a B | | | |
| HARMONY SG | 0.08 oz ai/a B | | | |
| N-PAK - AMS | 5 % v/v B | | | |
| | | Mean = | 93 | 100 |
| 3 VALOR SX | 1.02 oz ai/a A | 103 | 95 | 100 |
| BASIS BLEND @ 1.25 OZ/A | | 302 | 95 | 100 |
| RESOLVE | 0.25 oz ai/a A | 504 | 95 | 100 |
| HARMONY SG | 0.125 oz ai/a A | 801 | 95 | 100 |
| ROUNDUP POWERMAX | 22 fl oz/a B | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | |
| CLASSIC | 0.24 oz ai/a B | | | |
| HARMONY SG | 0.08 oz ai/a B | | | |
| N-PAK - AMS | 5 % v/v B | | | |
| | | Mean = | 95 | 100 |
| 4 BASIS BLEND @ 1.25 OZ/A | | 104 | 100 | 100 |
| ENVIVE @ 3.5 OZ/A | | 401 | 85 | 100 |
| RESOLVE | 0.25 oz ai/a A | 604 | 95 | 100 |
| HARMONY SG | 0.35 oz ai/a A | 803 | 95 | 100 |
| VALOR SX | 1.02 oz ai/a A | | | |
| CLASSIC | 0.32 oz ai/a A | | | |
| ROUNDUP POWERMAX | 22 fl oz/a B | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | |
| CLASSIC | 0.24 oz ai/a B | | | |
| HARMONY SG | 0.08 oz ai/a B | | | |
| N-PAK - AMS | 5 % v/v B | | | |
| | | Mean = | 94 | 100 |

Purdue Weed Science

Conventional Till Programs for BOLT Soybean

Trial ID: 16S-TPAC-SOY-20 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-SOY-20 Investigator: Dr. Bill Johnson
 Project ID: USA-16-156 Study Director: Joe Ikley
 Sponsor Contact: Dupont - Kelly Barnett

| Pest Type | W Weed AMBTR Giant ragweed | W Weed SETFA Giant foxtail | W Weed AMBTR Giant ragweed | W Weed SETFA Giant foxtail |
|-------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Pest Code | | | | |
| Pest Name | | | | |
| Crop Code | | | | |
| Crop Name | | | | |
| Part Rated | PLOT P | PLOT P | PLOT P | PLOT P |
| Rating Date | Jul-5-2016 | Jul-5-2016 | Jul-19-2016 | Jul-19-2016 |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 48 28 | 48 28 | 62 42 | 62 42 |
| Trt-Eval Interval | 28 DA-B | 28 DA-B | 42 DA-B | 42 DA-B |
| Days After Emergence | 41 DE-1 | 41 DE-1 | 55 DE-1 | 55 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 Plot | 12 | 13 |
| 5 BASIS BLEND @ 1.25 OZ/A | | 105 | 99 | 100 |
| RESOLVE | 0.25 oz ai/a A | 304 | 97 | 100 |
| HARMONY SG | 0.125 oz ai/a A | 603 | 97 | 100 |
| CANOPY BLEND @ 7.5 OZ/A | | 701 | 80 | 100 |
| CLASSIC | 0.62 oz ai/a A | | | 75 |
| SENCOR | 3.75 oz ai/a A | | | |
| ROUNDUP POWERMAX | 22 fl oz/a B | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | |
| CLASSIC | 0.24 oz ai/a B | | | |
| HARMONY SG | 0.08 oz ai/a B | | | |
| N-PAK - AMS | 5 % v/v B | | | |
| | | Mean = | 93 | 100 |
| 6 DILIGENT | | 201 | 80 | 100 |
| VALOR SX | 1.01 oz ai/a A | 305 | 95 | 100 |
| RESOLVE | 0.25 oz ai/a A | 605 | 99 | 100 |
| CLASSIC | 0.25 oz ai/a A | 703 | 99 | 100 |
| ROUNDUP POWERMAX | 22 fl oz/a B | | | 97 |
| SYNCHRONY @ 1.16 OZ/A | | | | |
| CLASSIC | 0.24 oz ai/a B | | | |
| HARMONY SG | 0.08 oz ai/a B | | | |
| N-PAK - AMS | 5 % v/v B | | | |
| | | Mean = | 93 | 100 |
| 7 ENVIVE @ 3.5 OZ/A | | 202 | 97 | 100 |
| VALOR SX | 1.02 oz ai/a A | 403 | 97 | 100 |
| CLASSIC | 0.32 oz ai/a A | 602 | 99 | 100 |
| HARMONY SG | 0.1 oz ai/a A | 804 | 95 | 100 |
| ROUNDUP POWERMAX | 22 fl oz/a B | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | |
| CLASSIC | 0.24 oz ai/a B | | | |
| HARMONY SG | 0.08 oz ai/a B | | | |
| N-PAK - AMS | 5 % v/v B | | | |
| | | Mean = | 97 | 100 |
| 8 VALOR SX | 1.02 oz ai/a A | 203 | 99 | 99 |
| ROUNDUP POWERMAX | 22 fl oz/a B | 404 | 95 | 100 |
| SYNCHRONY @ 1.16 OZ/A | | 501 | 70 | 100 |
| CLASSIC | 0.24 oz ai/a B | 805 | 90 | 100 |
| HARMONY SG | 0.08 oz ai/a B | | | |
| N-PAK - AMS | 5 % v/v B | | | |
| | | Mean = | 89 | 100 |
| 9 FIERCE XLT | 4.5 oz/a A | 204 | 99 | 100 |
| ROUNDUP POWERMAX | 32 fl oz/a B | 402 | 95 | 100 |
| N-PAK - AMS | 5 % v/v B | 505 | 90 | 100 |
| | | 705 | 97 | 100 |
| | | Mean = | 95 | 100 |

Purdue Weed Science

Conventional Till Programs for BOLT Soybean

| | | |
|------------------------------|---|------------------|
| Trial ID: 16S-TPAC-SOY-20 | Location: TPAC | Trial Year: 2016 |
| Protocol ID: 16S-TPAC-SOY-20 | Investigator: Dr. Bill Johnson | |
| Project ID: USA-16-156 | Study Director: Joe Ikley | |
| | Sponsor Contact: Dupont - Kelly Barnett | |

| | W Weed AMBTR Giant ragweed | W Weed SETFA Giant foxtail | W Weed AMBTR Giant ragweed | W Weed SETFA Giant foxtail |
|-------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Pest Type | | | | |
| Pest Code | | | | |
| Pest Name | | | | |
| Crop Code | | | | |
| Crop Name | | | | |
| Part Rated | PLOT P | PLOT P | PLOT P | PLOT P |
| Rating Date | Jul-5-2016 | Jul-5-2016 | Jul-19-2016 | Jul-19-2016 |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 48 28 | 48 28 | 62 42 | 62 42 |
| Trt-Eval Interval | 28 DA-B | 28 DA-B | 42 DA-B | 42 DA-B |
| Days After Emergence | 41 DE-1 | 41 DE-1 | 55 DE-1 | 55 DE-1 |
| ARM Action Codes | P | P | P | P |
| Number of Decimals | 0 | 0 | 0 | 0 |
| Trt Treatment | | | | |
| No. Name | Rate Unit Code Plot | | | |
| 10 Untreated Check | | | | |
| | 205 | 0 | 0 | 0 |
| | 301 | 0 | 0 | 0 |
| | 601 | 0 | 0 | 0 |
| | 802 | 0 | 0 | 0 |
| | Mean = | 0 | 0 | 0 |

Purdue Weed Science

Conventional Till Programs for BOLT Soybean

Trial ID: 16S-TPAC-SOY-20 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-SOY-20 Investigator: Dr. Bill Johnson
 Project ID: USA-16-156 Study Director: Joe Ikley
 Sponsor Contact: Dupont - Kelly Barnett

Pest Type
 W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
 AMBTR, Ambrosia trifida, = US
 SETFA, Setaria faberi, = US
Crop Code
 GLXMA, BSOY, Glycine max, = US
Part Rated
 PLOT = plot
 C = Crop is Part Rated
 P = Pest is Part Rated
Rating Type
 PHYGEN = phytotoxicity - general / injury
 CONTRO = control / burndown or knockdown
Rating Unit
 % = percent
ARM Action Codes
 P = Rating scale of 0 to 100 (e.g. % control or injury)

| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | W Weed | | | | |
|-------------------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|------|------|------|------|
| Pest Code | AMBTR | SETFA | AMBTR | SETFA | AMBTR | SETFA | | | | |
| Pest Name | Giant ragweed | Giant foxtail | Giant ragweed | Giant foxtail | Giant ragweed | Giant foxtail | | | | |
| Crop Code | GLXMA | GLXMA | GLXMA | GLXMA | GLXMA | GLXMA | | | | |
| Crop Name | Soybean | Soybean | Soybean | Soybean | Soybean | Soybean | | | | |
| Part Rated | PLOT C | PLOT P | PLOT P | PLOT C | PLOT P | PLOT P | | | | |
| Rating Date | May-31-2016 | May-31-2016 | May-31-2016 | Jun-7-2016 | Jun-7-2016 | Jun-7-2016 | | | | |
| Rating Type | PHYGEN | CONTRO | CONTRO | PHYGEN | CONTRO | CONTRO | | | | |
| Rating Unit | % | % | % | % | % | % | | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| Days After First/Last Applic. | 13 13 | 13 13 | 13 13 | 20 20 | 20 20 | 20 20 | | | | |
| Trt-Eval Interval | 13 DA-A | 13 DA-A | 13 DA-A | 0 DA-B | 0 DA-B | 0 DA-B | | | | |
| Days After Emergence | 6 DE-1 | 6 DE-1 | 6 DE-1 | 13 DE-1 | 13 DE-1 | 13 DE-1 | | | | |
| ARM Action Codes | P | P | P | P | P | P | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Trt No. | Treatment Name | Rate | Unit | Appl Code | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | Untreated Check | | | | 0 c | 0 b | 0 b | 0 d | 0 b | 0 b |
| 2 | BASIS BLEND @ 1.25 OZ/A | | | | 0 c | 68 a | 93 a | 1 cd | 73 a | 89 a |
| | RESOLVE | 0.25 oz ai/a | A | | | | | | | |
| | HARMONY SG | 0.125 oz ai/a | A | | | | | | | |
| | ROUNDUP POWERMAX | 22 fl oz/a | B | | | | | | | |
| | SYNCHRONY @ 1.16 OZ/A | | | | | | | | | |
| | CLASSIC | 0.24 oz ai/a | B | | | | | | | |
| | HARMONY SG | 0.08 oz ai/a | B | | | | | | | |
| | N-PAK - AMS | 5 % v/v | B | | | | | | | |
| 3 | VALOR SX | 1.02 oz ai/a | A | | 5 bc | 60 a | 90 a | 8 b | 65 a | 91 a |
| | BASIS BLEND @ 1.25 OZ/A | | | | | | | | | |
| | RESOLVE | 0.25 oz ai/a | A | | | | | | | |
| | HARMONY SG | 0.125 oz ai/a | A | | | | | | | |
| | ROUNDUP POWERMAX | 22 fl oz/a | B | | | | | | | |
| | SYNCHRONY @ 1.16 OZ/A | | | | | | | | | |
| | CLASSIC | 0.24 oz ai/a | B | | | | | | | |
| | HARMONY SG | 0.08 oz ai/a | B | | | | | | | |
| | N-PAK - AMS | 5 % v/v | B | | | | | | | |
| 4 | BASIS BLEND @ 1.25 OZ/A | | | | 6 bc | 69 a | 98 a | 8 b | 65 a | 94 a |
| | ENVIVE @ 3.5 OZ/A | | | | | | | | | |
| | RESOLVE | 0.25 oz ai/a | A | | | | | | | |
| | HARMONY SG | 0.35 oz ai/a | A | | | | | | | |
| | VALOR SX | 1.02 oz ai/a | A | | | | | | | |
| | CLASSIC | 0.32 oz ai/a | A | | | | | | | |
| | ROUNDUP POWERMAX | 22 fl oz/a | B | | | | | | | |
| | SYNCHRONY @ 1.16 OZ/A | | | | | | | | | |
| | CLASSIC | 0.24 oz ai/a | B | | | | | | | |
| | HARMONY SG | 0.08 oz ai/a | B | | | | | | | |
| | N-PAK - AMS | 5 % v/v | B | | | | | | | |

Purdue Weed Science

Conventional Till Programs for BOLT Soybean

Trial ID: 16S-TPAC-SOY-20 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-SOY-20 Investigator: Dr. Bill Johnson
 Project ID: USA-16-156 Study Director: Joe Ikley
 Sponsor Contact: Dupont - Kelly Barnett

| Pest Type | | W Weed AMBTR Giant ragweed | W Weed SETFA Giant foxtail | | W Weed AMBTR Giant ragweed | W Weed SETFA Giant foxtail | | |
|-------------------------------|-----------------|----------------------------------|----------------------------------|------------|----------------------------------|----------------------------------|------|------|
| Pest Code | | | | | | | | |
| Pest Name | | | | | | | | |
| Crop Code | GLXMA | | | GLXMA | | | | |
| Crop Name | Soybean | | | Soybean | | | | |
| Part Rated | PLOT C | PLOT P | PLOT P | PLOT C | PLOT P | PLOT P | | |
| Rating Date | May-31-2016 | May-31-2016 | May-31-2016 | Jun-7-2016 | Jun-7-2016 | Jun-7-2016 | | |
| Rating Type | PHYGEN | CONTRO | CONTRO | PHYGEN | CONTRO | CONTRO | | |
| Rating Unit | % | % | % | % | % | % | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | 1 | | |
| Days After First/Last Applic. | 13 13 | 13 13 | 13 13 | 20 20 | 20 20 | 20 20 | | |
| Trt-Eval Interval | 13 DA-A | 13 DA-A | 13 DA-A | 0 DA-B | 0 DA-B | 0 DA-B | | |
| Days After Emergence | 6 DE-1 | 6 DE-1 | 6 DE-1 | 13 DE-1 | 13 DE-1 | 13 DE-1 | | |
| ARM Action Codes | P | P | P | P | P | P | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Trt Treatment | Rate | Appl | | | | | | |
| No. Name | Rate Unit | Code | 1 | 2 | 3 | 4 | 5 | 6 |
| 5 BASIS BLEND @ 1.25 OZ/A | | | 0 c | 71 a | 80 a | 1 cd | 73 a | 75 a |
| RESOLVE | 0.25 oz ai/a A | | | | | | | |
| HARMONY SG | 0.125 oz ai/a A | | | | | | | |
| CANOPY BLEND @ 7.5 OZ/A | | | | | | | | |
| CLASSIC | 0.62 oz ai/a A | | | | | | | |
| SENCOR | 3.75 oz ai/a A | | | | | | | |
| ROUNDUP POWERMAX | 22 fl oz/a B | | | | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | | | |
| CLASSIC | 0.24 oz ai/a B | | | | | | | |
| HARMONY SG | 0.08 oz ai/a B | | | | | | | |
| N-PAK - AMS | 5 % v/v B | | | | | | | |
| 6 DILIGENT | | | 6 bc | 74 a | 100 a | 5 bc | 81 a | 96 a |
| VALOR SX | 1.01 oz ai/a A | | | | | | | |
| RESOLVE | 0.25 oz ai/a A | | | | | | | |
| CLASSIC | 0.25 oz ai/a A | | | | | | | |
| ROUNDUP POWERMAX | 22 fl oz/a B | | | | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | | | |
| CLASSIC | 0.24 oz ai/a B | | | | | | | |
| HARMONY SG | 0.08 oz ai/a B | | | | | | | |
| N-PAK - AMS | 5 % v/v B | | | | | | | |
| 7 ENVIVE @ 3.5 OZ/A | | | 6 bc | 81 a | 94 a | 8 b | 79 a | 96 a |
| VALOR SX | 1.02 oz ai/a A | | | | | | | |
| CLASSIC | 0.32 oz ai/a A | | | | | | | |
| HARMONY SG | 0.1 oz ai/a A | | | | | | | |
| ROUNDUP POWERMAX | 22 fl oz/a B | | | | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | | | |
| CLASSIC | 0.24 oz ai/a B | | | | | | | |
| HARMONY SG | 0.08 oz ai/a B | | | | | | | |
| N-PAK - AMS | 5 % v/v B | | | | | | | |
| 8 VALOR SX | 1.02 oz ai/a A | | 10 b | 53 a | 95 a | 9 b | 50 a | 98 a |
| ROUNDUP POWERMAX | 22 fl oz/a B | | | | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | | | |
| CLASSIC | 0.24 oz ai/a B | | | | | | | |
| HARMONY SG | 0.08 oz ai/a B | | | | | | | |
| N-PAK - AMS | 5 % v/v B | | | | | | | |
| 9 FIERCE XLT | 4.5 oz/a A | | 28 a | 83 a | 88 a | 30 a | 79 a | 96 a |
| ROUNDUP POWERMAX | 32 fl oz/a B | | | | | | | |
| N-PAK - AMS | 5 % v/v B | | | | | | | |

Purdue Weed Science

Conventional Till Programs for BOLT Soybean

Trial ID: 16S-TPAC-SOY-20 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-SOY-20 Investigator: Dr. Bill Johnson
 Project ID: USA-16-156 Study Director: Joe Ikley
 Sponsor Contact: Dupont - Kelly Barnett

| Pest Type | | W Weed AMBTR | W Weed SETFA | | W Weed AMBTR | W Weed SETFA | |
|-------------------------------|----------------|-----------------|-----------------|------------|-----------------|-----------------|----------|
| Pest Code | | Giant ragweed | Giant foxtail | | Giant ragweed | Giant foxtail | |
| Pest Name | | | | | | | |
| Crop Code | GLXMA | | | GLXMA | | | |
| Crop Name | Soybean | | | Soybean | | | |
| Part Rated | PLOT C | PLOT P | PLOT P | PLOT C | PLOT P | PLOT P | |
| Rating Date | May-31-2016 | May-31-2016 | May-31-2016 | Jun-7-2016 | Jun-7-2016 | Jun-7-2016 | |
| Rating Type | PHYGEN | CONTRO | CONTRO | PHYGEN | CONTRO | CONTRO | |
| Rating Unit | % | % | % | % | % | % | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | 1 | |
| Days After First/Last Applic. | 13 13 | 13 13 | 13 13 | 20 20 | 20 20 | 20 20 | |
| Trt-Eval Interval | 13 DA-A | 13 DA-A | 13 DA-A | 0 DA-B | 0 DA-B | 0 DA-B | |
| Days After Emergence | 6 DE-1 | 6 DE-1 | 6 DE-1 | 13 DE-1 | 13 DE-1 | 13 DE-1 | |
| ARM Action Codes | P | P | P | P | P | P | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | |
| Trt Treatment | Rate | Appl | | | | | |
| No. Name | Rate Unit Code | 1 | 2 | 3 | 4 | 5 | 6 |
| 10 Untreated Check | | 0 c | 0 b | 0 b | 0 d | 0 b | 0 b |
| LSD P=.05 | | 4.2 | 39.2 | 14.3 | 3.4 | 38.4 | 16.9 |
| Standard Deviation | | 2.9 | 27.0 | 9.8 | 2.3 | 26.5 | 11.6 |
| CV | | 47.59 | 48.42 | 13.35 | 33.64 | 46.96 | 15.81 |
| Bartlett's X2 | | 3.085 | 11.441 | 13.154 | 2.535 | 7.035 | 38.895 |
| P(Bartlett's X2) | | 0.379 | 0.121 | 0.041* | 0.771 | 0.425 | 0.001* |
| Skewness | | 1.7393* | -0.5273 | -1.3234* | 1.8376* | -0.5224 | -1.3119* |
| Kurtosis | | 2.4964* | -1.5429* | 0.0033 | 2.7835* | -1.4819* | -0.121 |
| Replicate F | | 0.074 | 0.445 | 2.026 | 2.299 | 0.562 | 1.332 |
| Replicate Prob(F) | | 0.9737 | 0.7229 | 0.1339 | 0.1000 | 0.6447 | 0.2845 |
| Treatment F | | 32.608 | 5.173 | 63.646 | 58.247 | 5.508 | 45.707 |
| Treatment Prob(F) | | 0.0001 | 0.0004 | 0.0001 | 0.0001 | 0.0003 | 0.0001 |

Purdue Weed Science

Conventional Till Programs for BOLT Soybean

Trial ID: 16S-TPAC-SOY-20 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-SOY-20 Investigator: Dr. Bill Johnson
 Project ID: USA-16-156 Study Director: Joe Ikley
 Sponsor Contact: Dupont - Kelly Barnett

| Pest Type | | | W Weed AMBTR Giant ragweed | W Weed SETFA Giant foxtail | | W Weed AMBTR Giant ragweed | | | |
|-------------------------------|---------------|-------------|----------------------------------|----------------------------------|------------|----------------------------------|-------|-----|------|
| Pest Code | | | | | | | | | |
| Pest Name | | | | | | | | | |
| Crop Code | GLXMA | GLXMA | | | GLXMA | | | | |
| Crop Name | Soybean | Soybean | | | Soybean | | | | |
| Part Rated | PLOT C | PLOT C | PLOT P | PLOT P | PLOT C | PLOT P | | | |
| Rating Date | Jun-15-2016 | Jun-21-2016 | Jun-21-2016 | Jun-21-2016 | Jul-5-2016 | Jul-5-2016 | | | |
| Rating Type | PHYGEN | PHYGEN | CONTRO | CONTRO | PHYGEN | CONTRO | | | |
| Rating Unit | % | % | % | % | % | % | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| Days After First/Last Applic. | 28 8 | 34 14 | 34 14 | 34 14 | 48 28 | 48 28 | | | |
| Trt-Eval Interval | 8 DA-B | 14 DA-B | 14 DA-B | 14 DA-B | 28 DA-B | 28 DA-B | | | |
| Days After Emergence | 21 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 | 41 DE-1 | 41 DE-1 | | | |
| ARM Action Codes | P | P | P | P | P | P | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Trt Treatment | Rate | Appl | | | | | | | |
| No. Name | Rate | Unit | Code | 7 | 8 | 9 | 10 | 11 | 12 |
| 1 Untreated Check | | | | 0 b | 0 b | 0 b | 0 b | 0 - | 0 b |
| 2 BASIS BLEND @ 1.25 OZ/A | | | | 0 b | 0 b | 91 a | 100 a | 0 - | 93 a |
| RESOLVE | 0.25 oz ai/a | A | | | | | | | |
| HARMONY SG | 0.125 oz ai/a | A | | | | | | | |
| ROUNDUP POWERMAX | 22 fl oz/a | B | | | | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | | | | |
| CLASSIC | 0.24 oz ai/a | B | | | | | | | |
| HARMONY SG | 0.08 oz ai/a | B | | | | | | | |
| N-PAK - AMS | 5 % v/v | B | | | | | | | |
| 3 VALOR SX | 1.02 oz ai/a | A | | 4 b | 0 b | 91 a | 100 a | 0 - | 95 a |
| BASIS BLEND @ 1.25 OZ/A | | | | | | | | | |
| RESOLVE | 0.25 oz ai/a | A | | | | | | | |
| HARMONY SG | 0.125 oz ai/a | A | | | | | | | |
| ROUNDUP POWERMAX | 22 fl oz/a | B | | | | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | | | | |
| CLASSIC | 0.24 oz ai/a | B | | | | | | | |
| HARMONY SG | 0.08 oz ai/a | B | | | | | | | |
| N-PAK - AMS | 5 % v/v | B | | | | | | | |
| 4 BASIS BLEND @ 1.25 OZ/A | | | | 3 b | 1 b | 95 a | 100 a | 0 - | 94 a |
| ENVIVE @ 3.5 OZ/A | | | | | | | | | |
| RESOLVE | 0.25 oz ai/a | A | | | | | | | |
| HARMONY SG | 0.35 oz ai/a | A | | | | | | | |
| VALOR SX | 1.02 oz ai/a | A | | | | | | | |
| CLASSIC | 0.32 oz ai/a | A | | | | | | | |
| ROUNDUP POWERMAX | 22 fl oz/a | B | | | | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | | | | |
| CLASSIC | 0.24 oz ai/a | B | | | | | | | |
| HARMONY SG | 0.08 oz ai/a | B | | | | | | | |
| N-PAK - AMS | 5 % v/v | B | | | | | | | |

Purdue Weed Science

Conventional Till Programs for BOLT Soybean

Trial ID: 16S-TPAC-SOY-20 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-SOY-20 Investigator: Dr. Bill Johnson
 Project ID: USA-16-156 Study Director: Joe Ikley
 Sponsor Contact: Dupont - Kelly Barnett

| Pest Type | | | W Weed AMBTR Giant ragweed | W Weed SETFA Giant foxtail | | W Weed AMBTR Giant ragweed | | |
|---|--|------------------|----------------------------------|----------------------------------|------------------|----------------------------------|-----|------|
| Pest Code | | | | | | | | |
| Pest Name | | | | | | | | |
| Crop Code | GLXMA Soybean | GLXMA Soybean | | | GLXMA Soybean | | | |
| Crop Name | PLOT C | PLOT C | PLOT P | PLOT P | PLOT C | PLOT P | | |
| Part Rated | Jun-15-2016 | Jun-21-2016 | Jun-21-2016 | Jun-21-2016 | Jul-5-2016 | Jul-5-2016 | | |
| Rating Date | | | | | | | | |
| Rating Type | PHYGEN | PHYGEN | CONTRO | CONTRO | PHYGEN | CONTRO | | |
| Rating Unit | % | % | % | % | % | % | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | 1 | | |
| Days After First/Last Applic. | 28 8 | 34 14 | 34 14 | 34 14 | 48 28 | 48 28 | | |
| Trt-Eval Interval | 8 DA-B | 14 DA-B | 14 DA-B | 14 DA-B | 28 DA-B | 28 DA-B | | |
| Days After Emergence | 21 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 | 41 DE-1 | 41 DE-1 | | |
| ARM Action Codes | P | P | P | P | P | P | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Trt Treatment | Rate | Appl | | | | | | |
| No. Name | Rate Unit | Code | 7 | 8 | 9 | 10 | 11 | 12 |
| 5 BASIS BLEND @ 1.25 OZ/A RESOLVE HARMONY SG CANOPY BLEND @ 7.5 OZ/A CLASSIC SENCOR ROUNDUP POWERMAX SYNCHRONY @ 1.16 OZ/A CLASSIC HARMONY SG N-PAK - AMS | 0.25 oz ai/a A 0.125 oz ai/a A 0.62 oz ai/a A 3.75 oz ai/a A 22 fl oz/a B 0.24 oz ai/a B 0.08 oz ai/a B 5 % v/v B | | 0 b | 0 b | 96 a | 100 a | 0 - | 93 a |
| 6 DILIGENT VALOR SX RESOLVE CLASSIC ROUNDUP POWERMAX SYNCHRONY @ 1.16 OZ/A CLASSIC HARMONY SG N-PAK - AMS | 1.01 oz ai/a A 0.25 oz ai/a A 0.25 oz ai/a A 22 fl oz/a B 0.24 oz ai/a B 0.08 oz ai/a B 5 % v/v B | | 1 b | 0 b | 95 a | 100 a | 0 - | 93 a |
| 7 ENVIVE @ 3.5 OZ/A VALOR SX CLASSIC HARMONY SG ROUNDUP POWERMAX SYNCHRONY @ 1.16 OZ/A CLASSIC HARMONY SG N-PAK - AMS | 1.02 oz ai/a A 0.32 oz ai/a A 0.1 oz ai/a A 22 fl oz/a B 0.24 oz ai/a B 0.08 oz ai/a B 5 % v/v B | | 1 b | 0 b | 96 a | 100 a | 0 - | 97 a |
| 8 VALOR SX ROUNDUP POWERMAX SYNCHRONY @ 1.16 OZ/A CLASSIC HARMONY SG N-PAK - AMS | 1.02 oz ai/a A 22 fl oz/a B 0.24 oz ai/a B 0.08 oz ai/a B 5 % v/v B | | 4 b | 5 a | 89 a | 100 a | 0 - | 89 a |
| 9 FIERCE XLT ROUNDUP POWERMAX N-PAK - AMS | 4.5 oz/a A 32 fl oz/a B 5 % v/v B | | 10 a | 8 a | 96 a | 100 a | 0 - | 95 a |

Purdue Weed Science

Conventional Till Programs for BOLT Soybean

Trial ID: 16S-TPAC-SOY-20 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-SOY-20 Investigator: Dr. Bill Johnson
 Project ID: USA-16-156 Study Director: Joe Ikley
 Sponsor Contact: Dupont - Kelly Barnett

| Pest Type | | | W Weed AMBTR Giant ragweed | W Weed SETFA Giant foxtail | | W Weed AMBTR Giant ragweed | | |
|-------------------------------|-------------|-------------|----------------------------------|----------------------------------|------------|----------------------------------|----|----|
| Pest Code | | | | | | | | |
| Pest Name | | | | | | | | |
| Crop Code | GLXMA | GLXMA | | | GLXMA | | | |
| Crop Name | Soybean | Soybean | | | Soybean | | | |
| Part Rated | PLOT C | PLOT C | PLOT P | PLOT P | PLOT C | PLOT P | | |
| Rating Date | Jun-15-2016 | Jun-21-2016 | Jun-21-2016 | Jun-21-2016 | Jul-5-2016 | Jul-5-2016 | | |
| Rating Type | PHYGEN | PHYGEN | CONTRO | CONTRO | PHYGEN | CONTRO | | |
| Rating Unit | % | % | % | % | % | % | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | 1 | | |
| Days After First/Last Applic. | 28 8 | 34 14 | 34 14 | 34 14 | 48 28 | 48 28 | | |
| Trt-Eval Interval | 8 DA-B | 14 DA-B | 14 DA-B | 14 DA-B | 28 DA-B | 28 DA-B | | |
| Days After Emergence | 21 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 | 41 DE-1 | 41 DE-1 | | |
| ARM Action Codes | P | P | P | P | P | P | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Trt Treatment No. Name | Rate | Appl | | | | | | |
| | Rate | Unit | Code | | | | | |
| 10 Untreated Check | | | 7 | 8 | 9 | 10 | 11 | 12 |
| | 0 b | 0 b | 0 b | 0 b | 0 - | 0 b | | |
| LSD P=.05 | 3.7 | 2.7 | 6.7 | 0.2 | . | 9.7 | | |
| Standard Deviation | 2.6 | 1.8 | 4.6 | 0.2 | 0.0 | 6.7 | | |
| CV | 113.96 | 134.16 | 6.2 | 0.2 | 0.0 | 8.95 | | |
| Bartlett's X2 | 2.492 | 0.769 | 5.826 | 0.0 | 0.0 | 11.158 | | |
| P(Bartlett's X2) | 0.778 | 0.681 | 0.56 | . | . | 0.084 | | |
| Skewness | 1.7184* | 2.0936* | -1.4882* | -1.559* | . | -1.4735* | | |
| Kurtosis | 2.5906* | 3.3063* | 0.3379 | 0.4507 | . | 0.3002 | | |
| Replicate F | 1.141 | 0.184 | 4.450 | 1.000 | 0.000 | 0.103 | | |
| Replicate Prob(F) | 0.3504 | 0.9066 | 0.0115 | 0.4079 | 1.0000 | 0.9574 | | |
| Treatment F | 5.873 | 8.347 | 290.647 | 284267.695 | 0.000 | 139.213 | | |
| Treatment Prob(F) | 0.0002 | 0.0001 | 0.0001 | 0.0001 | 1.0000 | 0.0001 | | |

Purdue Weed Science

Conventional Till Programs for BOLT Soybean

| | | |
|------------------------------|---|------------------|
| Trial ID: 16S-TPAC-SOY-20 | Location: TPAC | Trial Year: 2016 |
| Protocol ID: 16S-TPAC-SOY-20 | Investigator: Dr. Bill Johnson | |
| Project ID: USA-16-156 | Study Director: Joe Ikley | |
| | Sponsor Contact: Dupont - Kelly Barnett | |

| | W Weed SETFA | W Weed AMBTR | W Weed SETFA |
|-------------------------------|-----------------|-----------------|-----------------|
| Pest Type | Giant foxtail | Giant ragweed | Giant foxtail |
| Pest Code | | | |
| Pest Name | | | |
| Crop Code | | | |
| Crop Name | | | |
| Part Rated | PLOT P | PLOT P | PLOT P |
| Rating Date | Jul-5-2016 | Jul-19-2016 | Jul-19-2016 |
| Rating Type | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % |
| Number of Subsamples | 1 | 1 | 1 |
| Days After First/Last Applic. | 48 28 | 62 42 | 62 42 |
| Trt-Eval Interval | 28 DA-B | 42 DA-B | 42 DA-B |
| Days After Emergence | 41 DE-1 | 55 DE-1 | 55 DE-1 |
| ARM Action Codes | P | P | P |
| Number of Decimals | 0 | 0 | 0 |
| Trt Treatment | | | |
| No. Name | 13 | 14 | 15 |
| 1 Untreated Check | 0 b | 0 b | 0 b |
| 2 BASIS BLEND @ 1.25 OZ/A | 100 a | 86 a | 100 a |
| RESOLVE | 0.25 oz ai/a A | | |
| HARMONY SG | 0.125 oz ai/a A | | |
| ROUNDUP POWERMAX | 22 fl oz/a B | | |
| SYNCHRONY @ 1.16 OZ/A | | | |
| CLASSIC | 0.24 oz ai/a B | | |
| HARMONY SG | 0.08 oz ai/a B | | |
| N-PAK - AMS | 5 % v/v B | | |
| 3 VALOR SX | 1.02 oz ai/a A | 86 a | 99 a |
| BASIS BLEND @ 1.25 OZ/A | | | |
| RESOLVE | 0.25 oz ai/a A | | |
| HARMONY SG | 0.125 oz ai/a A | | |
| ROUNDUP POWERMAX | 22 fl oz/a B | | |
| SYNCHRONY @ 1.16 OZ/A | | | |
| CLASSIC | 0.24 oz ai/a B | | |
| HARMONY SG | 0.08 oz ai/a B | | |
| N-PAK - AMS | 5 % v/v B | | |
| 4 BASIS BLEND @ 1.25 OZ/A | 100 a | 86 a | 99 a |
| ENVIVE @ 3.5 OZ/A | | | |
| RESOLVE | 0.25 oz ai/a A | | |
| HARMONY SG | 0.35 oz ai/a A | | |
| VALOR SX | 1.02 oz ai/a A | | |
| CLASSIC | 0.32 oz ai/a A | | |
| ROUNDUP POWERMAX | 22 fl oz/a B | | |
| SYNCHRONY @ 1.16 OZ/A | | | |
| CLASSIC | 0.24 oz ai/a B | | |
| HARMONY SG | 0.08 oz ai/a B | | |
| N-PAK - AMS | 5 % v/v B | | |

Purdue Weed Science

Conventional Till Programs for BOLT Soybean

Trial ID: 16S-TPAC-SOY-20 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-SOY-20 Investigator: Dr. Bill Johnson
 Project ID: USA-16-156 Study Director: Joe Ikley
 Sponsor Contact: Dupont - Kelly Barnett

| Pest Type | W Weed SETFA | W Weed AMBTR | W Weed SETFA | | | |
|-------------------------------|---------------|---------------|---------------|-------|------|-------|
| Pest Code | Giant foxtail | Giant ragweed | Giant foxtail | | | |
| Pest Name | | | | | | |
| Crop Code | | | | | | |
| Crop Name | | | | | | |
| Part Rated | PLOT P | PLOT P | PLOT P | | | |
| Rating Date | Jul-5-2016 | Jul-19-2016 | Jul-19-2016 | | | |
| Rating Type | CONTRO | CONTRO | CONTRO | | | |
| Rating Unit | % | % | % | | | |
| Number of Subsamples | 1 | 1 | 1 | | | |
| Days After First/Last Applic. | 48 28 | 62 42 | 62 42 | | | |
| Trt-Eval Interval | 28 DA-B | 42 DA-B | 42 DA-B | | | |
| Days After Emergence | 41 DE-1 | 55 DE-1 | 55 DE-1 | | | |
| ARM Action Codes | P | P | P | | | |
| Number of Decimals | 0 | 0 | 0 | | | |
| Trt Treatment No. Name | Rate | Unit | Appl Code | 13 | 14 | 15 |
| 5 BASIS BLEND @ 1.25 OZ/A | | | | 100 a | 91 a | 98 a |
| RESOLVE | 0.25 oz ai/a | A | | | | |
| HARMONY SG | 0.125 oz ai/a | A | | | | |
| CANOPY BLEND @ 7.5 OZ/A | | | | | | |
| CLASSIC | 0.62 oz ai/a | A | | | | |
| SENCOR | 3.75 oz ai/a | A | | | | |
| ROUNDUP POWERMAX | 22 fl oz/a | B | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | |
| CLASSIC | 0.24 oz ai/a | B | | | | |
| HARMONY SG | 0.08 oz ai/a | B | | | | |
| N-PAK - AMS | 5 % v/v | B | | | | |
| 6 DILIGENT | | | | 100 a | 92 a | 100 a |
| VALOR SX | 1.01 oz ai/a | A | | | | |
| RESOLVE | 0.25 oz ai/a | A | | | | |
| CLASSIC | 0.25 oz ai/a | A | | | | |
| ROUNDUP POWERMAX | 22 fl oz/a | B | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | |
| CLASSIC | 0.24 oz ai/a | B | | | | |
| HARMONY SG | 0.08 oz ai/a | B | | | | |
| N-PAK - AMS | 5 % v/v | B | | | | |
| 7 ENVIVE @ 3.5 OZ/A | | | | 100 a | 94 a | 98 a |
| VALOR SX | 1.02 oz ai/a | A | | | | |
| CLASSIC | 0.32 oz ai/a | A | | | | |
| HARMONY SG | 0.1 oz ai/a | A | | | | |
| ROUNDUP POWERMAX | 22 fl oz/a | B | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | |
| CLASSIC | 0.24 oz ai/a | B | | | | |
| HARMONY SG | 0.08 oz ai/a | B | | | | |
| N-PAK - AMS | 5 % v/v | B | | | | |
| 8 VALOR SX | 1.02 oz ai/a | A | | 100 a | 82 a | 100 a |
| ROUNDUP POWERMAX | 22 fl oz/a | B | | | | |
| SYNCHRONY @ 1.16 OZ/A | | | | | | |
| CLASSIC | 0.24 oz ai/a | B | | | | |
| HARMONY SG | 0.08 oz ai/a | B | | | | |
| N-PAK - AMS | 5 % v/v | B | | | | |
| 9 FIERCE XLT | 4.5 oz/a | A | | 100 a | 90 a | 100 a |
| ROUNDUP POWERMAX | 32 fl oz/a | B | | | | |
| N-PAK - AMS | 5 % v/v | B | | | | |

Purdue Weed Science

Conventional Till Programs for BOLT Soybean

| | | |
|------------------------------|---|------------------|
| Trial ID: 16S-TPAC-SOY-20 | Location: TPAC | Trial Year: 2016 |
| Protocol ID: 16S-TPAC-SOY-20 | Investigator: Dr. Bill Johnson | |
| Project ID: USA-16-156 | Study Director: Joe Ikley | |
| | Sponsor Contact: Dupont - Kelly Barnett | |

| | W Weed SETFA Giant foxtail | W Weed AMBTR Giant ragweed | W Weed SETFA Giant foxtail |
|-------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Pest Type | | | |
| Pest Code | | | |
| Pest Name | | | |
| Crop Code | | | |
| Crop Name | | | |
| Part Rated | PLOT P | PLOT P | PLOT P |
| Rating Date | Jul-5-2016 | Jul-19-2016 | Jul-19-2016 |
| Rating Type | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % |
| Number of Subsamples | 1 | 1 | 1 |
| Days After First/Last Applic. | 48 28 | 62 42 | 62 42 |
| Trt-Eval Interval | 28 DA-B | 42 DA-B | 42 DA-B |
| Days After Emergence | 41 DE-1 | 55 DE-1 | 55 DE-1 |
| ARM Action Codes | P | P | P |
| Number of Decimals | 0 | 0 | 0 |
| Trt Treatment | | | |
| No. Name | Rate Unit Code | | |
| 10 Untreated Check | 13 | 14 | 15 |
| | 0 b | 0 b | 0 b |
| LSD P=.05 | 0.2 | 12.6 | 3.1 |
| Standard Deviation | 0.2 | 8.7 | 2.1 |
| CV | 0.2 | 12.32 | 2.66 |
| Bartlett's X2 | 0.0 | 13.15 | 2.571 |
| P(Bartlett's X2) | . | 0.069 | 0.463 |
| Skewness | -1.559* | -1.3889* | -1.546* |
| Kurtosis | 0.4507 | 0.1644 | 0.4295 |
| Replicate F | 1.000 | 0.286 | 5.063 |
| Replicate Prob(F) | 0.4079 | 0.8348 | 0.0065 |
| Treatment F | 284267.695 | 73.789 | 1571.000 |
| Treatment Prob(F) | 0.0001 | 0.0001 | 0.0001 |

Purdue Weed Science

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Trial ID: 16S-TPAC-SOY-20 Location: TPAC Trial Year: 2016
Protocol ID: 16S-TPAC-SOY-20 Investigator: Dr. Bill Johnson
Project ID: USA-16-156 Study Director: Joe Ikley
Sponsor Contact: Dupont - Kelly Barnett

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, = US

SETFA, Setaria faberi, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Part Rated

PLOT = plot

C = Crop is Part Rated

P = Pest is Part Rated

Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

ARM Action Codes

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