

Purdue Weed Science

Armezon Tank-Mix Partners For Weed Control in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-18 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-18 Investigator: Dr. Bill Johnson
 Project ID: MKD H 2016 US C31 Study Director: Joe Ikley
 Sponsor Contact: BASF - Gery Welker

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: ZEAMX Zea mays Corn
Variety: DKC 62-08

Planting Rate, Unit: 32000 S/A **Planting Date:** Apr-26-2016
Depth, Unit: 1.75 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FPP Finger Pickup Planter
Soil Temperature, Unit: 74 F **Emergence Date:** May-10-2016
Soil Moisture: SLIDRY slightly dry **Harvested Width, Unit:** 5 FT
Harvested Length, Unit: 25 FT
% Standard Moisture: 15.5

Pest Description

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

Pest 2 Type: W **Code:** CHEAL Chenopodium album
Common Name: common lambsquarters

Pest 3 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)

Field Prep./Maintenance:

171 lbs of N applied as UAN on 4/19/16

Soil Description

Description Name: TPAC -Field 4A
% OM: 3.1 **Texture:** SIL silt loam
pH: 6 **Soil Name:** Toronto-Millbrook
CEC: 11.1

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Application Description

| | A |
|-------------------------|-------------|
| Application Date: | May-23-2016 |
| Appl. Start Time: | 2:30 PM |
| Appl. Stop Time: | 3:00 PM |
| Application Method: | SPRAY |
| Application Timing: | E POST |
| Application Placement: | BROADC |
| Applied By: | TC |
| Air Temperature, Unit: | 75 F |
| % Relative Humidity: | 25 |
| Wind Velocity, Unit: | 3 MPH |
| Wind Direction: | ESE |
| Dew Presence (Y/N): | N no |
| Soil Temperature, Unit: | 75 F |
| Soil Moisture: | DRY |
| % Cloud Cover: | 0 |

Crop Stage At Each Application

| | A |
|--------------------------|------------|
| Crop 1 Code, BBCH Scale: | ZEAMX BCOR |
| Stage Scale Used: | BBCH |
| Stage Majority, Percent: | 32 |
| Stage Minimum, Percent: | 31 |
| Stage Maximum, Percent: | 32 |
| Height, Unit: | 3.5 IN |
| Height Minimum, Maximum: | 2 5 |

Pest Stage At Each Application

| | A |
|---------------------------|---------|
| Pest 1 Code, Type, Scale: | AMBTR W |
| Stage Majority, Percent: | 32G |
| Stage Minimum, Percent: | 31G |
| Stage Maximum, Percent: | 34G |
| Height, Unit: | 4 IN |
| Height Minimum, Maximum: | 3 5 |
| Density, Unit: | 120 YD2 |
| Pest 2 Code, Type, Scale: | CHEAL W |
| Stage Majority, Percent: | 31G |
| Stage Minimum, Percent: | 31G |
| Stage Maximum, Percent: | 32G |
| Height, Unit: | 0.75 IN |
| Height Minimum, Maximum: | 0.5 1 |
| Density, Unit: | 30 YD2 |
| Pest 3 Code, Type, Scale: | SETFA W |
| Stage Majority, Percent: | 13 |
| Stage Minimum, Percent: | 12 |
| Stage Maximum, Percent: | 14 |
| Height, Unit: | 1.25 IN |
| Height Minimum, Maximum: | 0.5 2 |
| Density, Unit: | 75 YD2 |

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Application Equipment

| | A |
|----------------------------------|--------------|
| Appl. Equipment: | CO2 BACKPACK |
| Equipment Type: | BACSPR |
| Operation Pressure, Unit: | 28 PSI |
| Nozzle Type: | AIXR |
| Nozzle Size: | 110015 |
| Nozzle Spacing, Unit: | 15 IN |
| Nozzles/Row: | 8 |
| Boom Length, Unit: | 10 FT |
| Boom Height, Unit: | 17 IN |
| Ground Speed, Unit: | 3 MPH |
| Carrier: | MEIGS |
| Spray Volume, Unit: | 15 gal/ac |
| Mix Size, Unit: | 1.8 liters |
| Propellant: | CO2 |

Trial Comments

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

| Trt No. | Treatment Name | Form Conc | Form Unit | Form Type | Rate Rate | Appl Unit | Code | Amt to Measure | Rep 1 | Rep 2 | Rep 3 | Rep 4 |
|---------|--------------------|--------------|-----------|-----------|------------|-----------|------|----------------|-------|-------|-------|-------|
| 1 | Untreated Check | | | | | | | | 101 | 405 | 503 | 802 |
| 2 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 102 | 402 | 505 | 703 |
| | AATREX | 4 LB/GAL | | L | 16 fl oz/a | A | | 15.0 ml/mx | | | | |
| | PRIME OIL - COC | 98.47 % | | L | 1 % v/v | A | | 18.0 ml/mx | | | | |
| | N-PAK - AMS | 3.4 LBA/GAL | | L | 2.5 % v/v | A | | 45.0 ml/mx | | | | |
| 3 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 103 | 301 | 604 | 805 |
| | AATREX | 4 LB/GAL | | L | 16 fl oz/a | A | | 15.0 ml/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 16 fl oz/a | A | | 15.0 ml/mx | | | | |
| | PRIME OIL - COC | 98.47 % | | L | 1 % v/v | A | | 18.0 ml/mx | | | | |
| 4 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 104 | 404 | 501 | 702 |
| | AATREX | 4 LB/GAL | | L | 16 fl oz/a | A | | 15.0 ml/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 32 fl oz/a | A | | 30.0 ml/mx | | | | |
| | PRIME OIL - COC | 98.47 % | | L | 1 % v/v | A | | 18.0 ml/mx | | | | |
| 5 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 105 | 403 | 602 | 804 |
| | CLARITY | 4 LBAE/GAL | | L | 6 fl oz/a | A | | 5.625 ml/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 32 fl oz/a | A | | 30.0 ml/mx | | | | |
| | ACTIVATOR 90 - NIS | 90 % | | L | 0.25 % v/v | A | | 4.5 ml/mx | | | | |
| 6 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 106 | 403 | 602 | 804 |
| | CLARITY | 4 LBAE/GAL | | L | 6 fl oz/a | A | | 5.625 ml/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 32 fl oz/a | A | | 30.0 ml/mx | | | | |
| | ACTIVATOR 90 - NIS | 90 % | | L | 0.25 % v/v | A | | 4.5 ml/mx | | | | |
| 7 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 107 | 403 | 602 | 804 |
| | CLARITY | 4 LBAE/GAL | | L | 6 fl oz/a | A | | 5.625 ml/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 32 fl oz/a | A | | 30.0 ml/mx | | | | |
| | ACTIVATOR 90 - NIS | 90 % | | L | 0.25 % v/v | A | | 4.5 ml/mx | | | | |
| 8 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 108 | 403 | 602 | 804 |
| | CLARITY | 4 LBAE/GAL | | L | 6 fl oz/a | A | | 5.625 ml/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 32 fl oz/a | A | | 30.0 ml/mx | | | | |
| | ACTIVATOR 90 - NIS | 90 % | | L | 0.25 % v/v | A | | 4.5 ml/mx | | | | |
| 9 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 109 | 403 | 602 | 804 |
| | CLARITY | 4 LBAE/GAL | | L | 6 fl oz/a | A | | 5.625 ml/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 32 fl oz/a | A | | 30.0 ml/mx | | | | |
| | ACTIVATOR 90 - NIS | 90 % | | L | 0.25 % v/v | A | | 4.5 ml/mx | | | | |
| 10 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 110 | 403 | 602 | 804 |
| | CLARITY | 4 LBAE/GAL | | L | 6 fl oz/a | A | | 5.625 ml/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 32 fl oz/a | A | | 30.0 ml/mx | | | | |
| | ACTIVATOR 90 - NIS | 90 % | | L | 0.25 % v/v | A | | 4.5 ml/mx | | | | |
| 11 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 111 | 403 | 602 | 804 |
| | CLARITY | 4 LBAE/GAL | | L | 6 fl oz/a | A | | 5.625 ml/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 32 fl oz/a | A | | 30.0 ml/mx | | | | |
| | ACTIVATOR 90 - NIS | 90 % | | L | 0.25 % v/v | A | | 4.5 ml/mx | | | | |
| 12 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 112 | 403 | 602 | 804 |
| | CLARITY | 4 LBAE/GAL | | L | 6 fl oz/a | A | | 5.625 ml/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 32 fl oz/a | A | | 30.0 ml/mx | | | | |
| | ACTIVATOR 90 - NIS | 90 % | | L | 0.25 % v/v | A | | 4.5 ml/mx | | | | |
| 13 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 113 | 403 | 602 | 804 |
| | CLARITY | 4 LBAE/GAL | | L | 6 fl oz/a | A | | 5.625 ml/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 32 fl oz/a | A | | 30.0 ml/mx | | | | |
| | ACTIVATOR 90 - NIS | 90 % | | L | 0.25 % v/v | A | | 4.5 ml/mx | | | | |
| 14 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 114 | 403 | 602 | 804 |
| | CLARITY | 4 LBAE/GAL | | L | 6 fl oz/a | A | | 5.625 ml/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 32 fl oz/a | A | | 30.0 ml/mx | | | | |
| | ACTIVATOR 90 - NIS | 90 % | | L | 0.25 % v/v | A | | 4.5 ml/mx | | | | |
| 15 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 115 | 403 | 602 | 804 |
| | CLARITY | 4 LBAE/GAL | | L | 6 fl oz/a | A | | 5.625 ml/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 32 fl oz/a | A | | 30.0 ml/mx | | | | |
| | ACTIVATOR 90 - NIS | 90 % | | L | 0.25 % v/v | A | | 4.5 ml/mx | | | | |
| 16 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 116 | 403 | 602 | 804 |
| | CLARITY | 4 LBAE/GAL | | L | 6 fl oz/a | A | | 5.625 ml/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 32 fl oz/a | A | | 30.0 ml/mx | | | | |
| | ACTIVATOR 90 - NIS | 90 % | | L | 0.25 % v/v | A | | 4.5 ml/mx | | | | |
| 17 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 117 | 403 | 602 | 804 |
| | CLARITY | 4 LBAE/GAL | | L | 6 fl oz/a | A | | 5.625 ml/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 32 fl oz/a | A | | 30.0 ml/mx | | | | |
| | ACTIVATOR 90 - NIS | 90 % | | L | 0.25 % v/v | A | | 4.5 ml/mx | | | | |
| 18 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 118 | 403 | 602 | 804 |
| | CLARITY | 4 LBAE/GAL | | L | 6 fl oz/a | A | | 5.625 ml/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 32 fl oz/a | A | | 30.0 ml/mx | | | | |
| | ACTIVATOR 90 - NIS | 90 % | | L | 0.25 % v/v | A | | 4.5 ml/mx | | | | |
| 19 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 119 | 403 | 602 | 804 |
| | CLARITY | 4 LBAE/GAL | | L | 6 fl oz/a | A | | 5.625 ml/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 32 fl oz/a | A | | 30.0 ml/mx | | | | |
| | ACTIVATOR 90 - NIS | 90 % | | L | 0.25 % v/v | A | | 4.5 ml/mx | | | | |
| 20 | ARMEZON PRO | 5.26 LB/GAL | | EC | 16 fl oz/a | A | | 15.0 ml/mx | 120 | 403 | 602 | 804 |
| | CLARITY | 4 LBAE/GAL | | L | 6 fl oz/a | A | | 5.625 ml/mx | | | | |
| | ROUNDUP POWERMAX | 4.5 LBAE/GAL | | SL | 32 fl oz/a | A | | 30.0 ml/mx | | | | |
| | ACTIVATOR 90 - NIS | 90 % | | L | 0.25 % v/v | A | | 4.5 ml/mx | | | | |

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 Project ID: MKD H 2016 US C31 Study Director: Joe Ikley
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| Pest Type | | W Weed AMBTR Giant ragweed | W Weed ECHCG Common barnyar> | W Weed CHEAL common lambsqu> | | |
|-------------------------------|---------------------|----------------------------------|------------------------------------|------------------------------------|-------------|---|
| Pest Code | | | | | | |
| Pest Name | | | | | | |
| Crop Code | ZEAMX | | | | ZEAMX | |
| Crop Name | Corn | | | | Corn | |
| Part Rated | PLOT C | PLOT P | PLOT P | PLOT P | PLOT C | |
| Rating Date | May-31-2016 | May-31-2016 | May-31-2016 | May-31-2016 | Jun-15-2016 | |
| Rating Type | PHYGEN | CONTRO | CONTRO | CONTRO | PHYGEN | |
| Rating Unit | % | % | % | % | % | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | |
| Days After First/Last Applic. | 8 8 | 8 8 | 8 8 | 8 8 | 23 23 | |
| Trt-Eval Interval | 8 DA-A | 8 DA-A | 8 DA-A | 8 DA-A | 23 DA-A | |
| Days After Emergence | 21 DE-1 | 21 DE-1 | 21 DE-1 | 21 DE-1 | 36 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 | |
| 2 ARMEZON PRO | 16 fl oz/a A 102 | 0 | 95 | 99 | 100 | 0 |
| AATREX | 16 fl oz/a A 402 | 0 | 90 | 100 | 100 | 0 |
| PRIME OIL - COC | 1 % v/v A 505 | 0 | 90 | 100 | 100 | 0 |
| N-PAK - AMS | 2.5 % v/v A 703 | 0 | 90 | 95 | 100 | 0 |
| | Mean = | 0 | 91 | 99 | 100 | 0 |
| 3 ARMEZON PRO | 16 fl oz/a A 103 | 0 | 95 | 100 | 100 | 0 |
| AATREX | 16 fl oz/a A 301 | 5 | 97 | 100 | 100 | 0 |
| ROUNDUP POWERMAX | 16 fl oz/a A 604 | 0 | 99 | 100 | 100 | 0 |
| PRIME OIL - COC | 1 % v/v A 805 | 0 | 97 | 100 | 100 | 0 |
| N-PAK - AMS | 2.5 % v/v A | | | | | |
| | Mean = | 1 | 97 | 100 | 100 | 0 |
| 4 ARMEZON PRO | 16 fl oz/a A 104 | 0 | 95 | 100 | 100 | 0 |
| AATREX | 16 fl oz/a A 404 | 0 | 99 | 100 | 100 | 0 |
| ROUNDUP POWERMAX | 32 fl oz/a A 501 | 0 | 95 | 100 | 100 | 0 |
| PRIME OIL - COC | 1 % v/v A 702 | 5 | 95 | 100 | 100 | 0 |
| N-PAK - AMS | 2.5 % v/v A | | | | | |
| | Mean = | 1 | 96 | 100 | 100 | 0 |
| 5 ARMEZON PRO | 16 fl oz/a A 105 | 0 | 99 | 100 | 100 | 0 |
| CLARITY | 6 fl oz/a A 403 | 0 | 95 | 100 | 100 | 0 |
| ROUNDUP POWERMAX | 32 fl oz/a A 602 | 0 | 99 | 100 | 100 | 0 |
| ACTIVATOR 90 - NIS | 0.25 % v/v A 804 | 0 | 99 | 100 | 100 | 0 |
| N-PAK - AMS | 2.5 % v/v A | | | | | |
| | Mean = | 0 | 98 | 100 | 100 | 0 |
| 6 ACURON | 48 fl oz/a A 201 | 0 | 95 | 100 | 100 | 0 |
| ROUNDUP POWERMAX | 32 fl oz/a A 303 | 5 | 97 | 99 | 100 | 0 |
| PRIME OIL - COC | 1 % v/v A 601 | 0 | 95 | 100 | 100 | 0 |
| N-PAK - AMS | 2.5 % v/v A 705 | 0 | 95 | 100 | 100 | 0 |
| | Mean = | 1 | 96 | 100 | 100 | 0 |
| 7 RESICORE | 40 fl oz/a A 202 | 10 | 99 | 100 | 100 | 0 |
| ROUNDUP POWERMAX | 32 fl oz/a A 305 | 5 | 90 | 100 | 100 | 0 |
| ACTIVATOR 90 - NIS | 0.25 % v/v A 502 | 5 | 95 | 100 | 100 | 0 |
| N-PAK - AMS | 2.5 % v/v A 704 | 5 | 97 | 100 | 100 | 0 |
| | Mean = | 6 | 95 | 100 | 100 | 0 |
| 8 SURESTART II | 32 fl oz/a A 203 | 5 | 97 | 100 | 100 | 0 |
| ROUNDUP POWERMAX | 32 fl oz/a A 304 | 5 | 90 | 100 | 100 | 0 |
| ACTIVATOR 90 - NIS | 0.25 % v/v A 504 | 5 | 85 | 100 | 100 | 0 |
| N-PAK - AMS | 2.5 % v/v A 801 | 5 | 85 | 100 | 100 | 0 |
| | Mean = | 5 | 89 | 100 | 100 | 0 |
| 9 HALEX GT | 57.6 fl oz/a A 204 | 5 | 99 | 100 | 100 | 0 |
| AATREX | 16 fl oz/a A 302 | 0 | 100 | 100 | 100 | 0 |
| ROUNDUP POWERMAX | 5.3 fl oz/a A 603 | 0 | 97 | 100 | 100 | 0 |
| ACTIVATOR 90 - NIS | 0.25 % v/v A 803 | 5 | 97 | 100 | 100 | 0 |
| N-PAK - AMS | 2.5 % v/v A | | | | | |
| | Mean = | 3 | 98 | 100 | 100 | 0 |
| 10 Untreated Check | 205 | 0 | 0 | 0 | 0 | 0 |
| | 401 | 0 | 0 | 0 | 0 | 0 |
| | 605 | 0 | 0 | 0 | 0 | 0 |
| | 701 | 0 | 0 | 0 | 0 | 0 |
| | Mean = | 0 | 0 | 0 | 0 | 0 |

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| Pest Type | W Weed AMBTR | W Weed ECHCG | W Weed CHEAL | W Weed AMBTR | W Weed ECHCG | |
|-------------------------------|------------------------------------|-----------------|-----------------|-----------------|-----------------|----|
| Pest Code | Giant ragweed | Common barnyar> | common lambsqu> | Giant ragweed | Common barnyar> | |
| Pest Name | | | | | | |
| Crop Code | | | | | | |
| Crop Name | | | | | | |
| Part Rated | PLOT P | PLOT P | PLOT P | PLOT P | PLOT P | |
| Rating Date | Jun-15-2016 | Jun-15-2016 | Jun-15-2016 | Jul-7-2016 | Jul-7-2016 | |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | |
| Rating Unit | % | % | % | % | % | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | |
| Days After First/Last Applic. | 23 23 | 23 23 | 23 23 | 45 45 | 45 45 | |
| Trt-Eval Interval | 23 DA-A | 23 DA-A | 23 DA-A | 45 DA-A | 45 DA-A | |
| Days After Emergence | 36 DE-1 | 36 DE-1 | 36 DE-1 | 58 DE-1 | 58 DE-1 | |
| ARM Action Codes | P | P | P | P | P | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | |
| Trt Treatment | | | | | | |
| No. Name | Rate Appl Rate Unit Code Plot | | | | | |
| 1 Untreated Check | 101 405 503 802 Mean = | 6 | 7 | 8 | 9 | 10 |
| | | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 |

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| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed |
|-------------------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|
| Pest Code | AMBTR | ECHCG | CHEAL | AMBTR | ECHCG |
| Pest Name | Giant ragweed | Common barnyar> | common lambsqu> | Giant ragweed | Common barnyar> |
| Crop Code | | | | | |
| Crop Name | | | | | |
| Part Rated | | | | | |
| Rating Date | PLOT P Jun-15-2016 | PLOT P Jun-15-2016 | PLOT P Jun-15-2016 | PLOT P Jul-7-2016 | PLOT P Jul-7-2016 |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 23 23 | 23 23 | 23 23 | 45 45 | 45 45 |
| Trt-Eval Interval | 23 DA-A | 23 DA-A | 23 DA-A | 45 DA-A | 45 DA-A |
| Days After Emergence | 36 DE-1 | 36 DE-1 | 36 DE-1 | 58 DE-1 | 58 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 | 6 | 7 | 8 |
| 2 ARMEZON PRO | 16 fl oz/a A | 102 | 90 | 90 | 100 |
| AATREX | 16 fl oz/a A | 402 | 90 | 90 | 100 |
| PRIME OIL - COC | 1 % v/v A | 505 | 85 | 80 | 100 |
| N-PAK - AMS | 2.5 % v/v A | 703 | 85 | 80 | 100 |
| | | Mean = | 88 | 85 | 100 |
| 3 ARMEZON PRO | 16 fl oz/a A | 103 | 90 | 95 | 100 |
| AATREX | 16 fl oz/a A | 301 | 92 | 95 | 100 |
| ROUNDUP POWERMAX | 16 fl oz/a A | 604 | 95 | 85 | 99 |
| PRIME OIL - COC | 1 % v/v A | 805 | 85 | 95 | 100 |
| N-PAK - AMS | 2.5 % v/v A | | | | |
| | | Mean = | 91 | 93 | 100 |
| 4 ARMEZON PRO | 16 fl oz/a A | 104 | 95 | 95 | 100 |
| AATREX | 16 fl oz/a A | 404 | 90 | 99 | 100 |
| ROUNDUP POWERMAX | 32 fl oz/a A | 501 | 85 | 100 | 100 |
| PRIME OIL - COC | 1 % v/v A | 702 | 85 | 95 | 100 |
| N-PAK - AMS | 2.5 % v/v A | | | | |
| | | Mean = | 89 | 97 | 100 |
| 5 ARMEZON PRO | 16 fl oz/a A | 105 | 95 | 97 | 100 |
| CLARITY | 6 fl oz/a A | 403 | 95 | 100 | 100 |
| ROUNDUP POWERMAX | 32 fl oz/a A | 602 | 90 | 99 | 100 |
| ACTIVATOR 90 - NIS | 0.25 % v/v A | 804 | 92 | 100 | 100 |
| N-PAK - AMS | 2.5 % v/v A | | | | |
| | | Mean = | 93 | 99 | 100 |
| 6 ACURON | 48 fl oz/a A | 201 | 97 | 99 | 100 |
| ROUNDUP POWERMAX | 32 fl oz/a A | 303 | 95 | 85 | 100 |
| PRIME OIL - COC | 1 % v/v A | 601 | 85 | 100 | 100 |
| N-PAK - AMS | 2.5 % v/v A | 705 | 90 | 95 | 100 |
| | | Mean = | 92 | 95 | 100 |
| 7 RESICORE | 40 fl oz/a A | 202 | 92 | 100 | 100 |
| ROUNDUP POWERMAX | 32 fl oz/a A | 305 | 97 | 100 | 100 |
| ACTIVATOR 90 - NIS | 0.25 % v/v A | 502 | 90 | 99 | 100 |
| N-PAK - AMS | 2.5 % v/v A | 704 | 97 | 100 | 100 |
| | | Mean = | 94 | 100 | 100 |
| 8 SURESTART II | 32 fl oz/a A | 203 | 90 | 95 | 100 |
| ROUNDUP POWERMAX | 32 fl oz/a A | 304 | 90 | 100 | 100 |
| ACTIVATOR 90 - NIS | 0.25 % v/v A | 504 | 95 | 99 | 100 |
| N-PAK - AMS | 2.5 % v/v A | 801 | 80 | 100 | 100 |
| | | Mean = | 89 | 99 | 100 |
| 9 HALEX GT | 57.6 fl oz/a A | 204 | 95 | 95 | 100 |
| AATREX | 16 fl oz/a A | 302 | 95 | 95 | 100 |
| ROUNDUP POWERMAX | 5.3 fl oz/a A | 603 | 95 | 85 | 100 |
| ACTIVATOR 90 - NIS | 0.25 % v/v A | 803 | 95 | 100 | 100 |
| N-PAK - AMS | 2.5 % v/v A | | | | |
| | | Mean = | 95 | 94 | 100 |
| 10 Untreated Check | | 205 | 0 | 0 | 0 |
| | | 401 | 0 | 0 | 0 |
| | | 605 | 0 | 0 | 0 |
| | | 701 | 0 | 0 | 0 |
| | | Mean = | 0 | 0 | 0 |

Purdue Weed Science

Armezon Tank-Mix Partners For Weed Control in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-18 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-18 Investigator: Dr. Bill Johnson
 Project ID: MKD H 2016 US C31 Study Director: Joe Ikley
 Sponsor Contact: BASF - Gery Welker

| | | | | |
|-------------------------------|------------|------------|------------|-----|
| Pest Type | | | | |
| Pest Code | | | | |
| Pest Name | | | | |
| Crop Code | ZEAMX | ZEAMX | ZEAMX | |
| Crop Name | Corn | Corn | Corn | |
| Part Rated | PLOT C | PLOT C | PLOT C | |
| Rating Date | Oct-8-2016 | Oct-8-2016 | Oct-8-2016 | |
| Rating Type | YIELD | MOICON | YIELD | |
| Rating Unit | lb/plot | % | BU | |
| Number of Subsamples | 1 | 1 | 1 | |
| Days After First/Last Applic. | 138 138 | 138 138 | 138 138 | |
| Trt-Eval Interval | 164 DA-A | 164 DA-A | 164 DA-A | |
| Days After Emergence | 151 DE-1 | 151 DE-1 | 151 DE-1 | |
| ARM Action Codes | | | TY1 | |
| Number of Decimals | 2 | 1 | 1 | |
| Trt Treatment | Rate | Appl | | |
| No. Name | Rate Unit | Code Plot | 11 | 12 |
| 1 Untreated Check | 101 | | 0.00 | 0.0 |
| | 405 | | 0.00 | 0.0 |
| | 503 | | 0.00 | 0.0 |
| | 802 | | 0.00 | 0.0 |
| | Mean = | | 0.00 | 0.0 |

Purdue Weed Science

Armezon Tank-Mix Partners For Weed Control in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-18 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-18 Investigator: Dr. Bill Johnson
 Project ID: MKD H 2016 US C31 Study Director: Joe Ikley
 Sponsor Contact: BASF - Gery Welker

| Pest Type | | | | | |
|-------------------------------|---------------------|------------|------------|------------|--|
| Pest Code | | | | | |
| Pest Name | | | | | |
| Crop Code | | ZEAMX | ZEAMX | ZEAMX | |
| Crop Name | | Corn | Corn | Corn | |
| Part Rated | | PLOT C | PLOT C | PLOT C | |
| Rating Date | | Oct-8-2016 | Oct-8-2016 | Oct-8-2016 | |
| Rating Type | | YIELD | MOICON | YIELD | |
| Rating Unit | | lb/plot | % | BU | |
| Number of Subsamples | | 1 | 1 | 1 | |
| Days After First/Last Applic. | | 138 138 | 138 138 | 138 138 | |
| Trt-Eval Interval | | 164 DA-A | 164 DA-A | 164 DA-A | |
| Days After Emergence | | 151 DE-1 | 151 DE-1 | 151 DE-1 | |
| ARM Action Codes | | | | TY1 | |
| Number of Decimals | | 2 | 1 | 1 | |
| Trt Treatment | Rate Appl | | | | |
| No. Name | Rate Unit Code Plot | 11 | 12 | 13 | |
| 2 ARMEZON PRO | 16 fl oz/a A 102 | 31.55 | 18.9 | 188.5 | |
| AATREX | 16 fl oz/a A 402 | 31.18 | 18.5 | 187.2 | |
| PRIME OIL - COC | 1 % v/v A 505 | 23.59 | 18.2 | 142.1 | |
| N-PAK - AMS | 2.5 % v/v A 703 | 33.17 | 19.0 | 197.9 | |
| | Mean = | 29.87 | 18.6 | 178.9 | |
| 3 ARMEZON PRO | 16 fl oz/a A 103 | 34.57 | 17.9 | 208.9 | |
| AATREX | 16 fl oz/a A 301 | 33.27 | 20.1 | 195.8 | |
| ROUNDUP POWERMAX | 16 fl oz/a A 604 | 29.35 | 19.0 | 175.1 | |
| PRIME OIL - COC | 1 % v/v A 805 | 24.23 | 19.5 | 143.7 | |
| N-PAK - AMS | 2.5 % v/v A | | | | |
| | Mean = | 30.35 | 19.1 | 180.9 | |
| 4 ARMEZON PRO | 16 fl oz/a A 104 | 38.82 | 19.2 | 231.0 | |
| AATREX | 16 fl oz/a A 404 | 35.32 | 18.5 | 212.0 | |
| ROUNDUP POWERMAX | 32 fl oz/a A 501 | . | . | . | |
| PRIME OIL - COC | 1 % v/v A 702 | 29.18 | 18.7 | 174.7 | |
| N-PAK - AMS | 2.5 % v/v A | | | | |
| | Mean = | 34.44 | 18.8 | 205.9 | |
| 5 ARMEZON PRO | 16 fl oz/a A 105 | 39.35 | 19.0 | 234.9 | |
| CLARITY | 6 fl oz/a A 403 | 39.78 | 19.0 | 237.4 | |
| ROUNDUP POWERMAX | 32 fl oz/a A 602 | 31.87 | 18.3 | 191.7 | |
| ACTIVATOR 90 - NIS | 0.25 % v/v A 804 | 34.89 | 18.9 | 208.3 | |
| N-PAK - AMS | 2.5 % v/v A | | | | |
| | Mean = | 36.48 | 18.8 | 218.1 | |
| 6 ACURON | 48 fl oz/a A 201 | 31.55 | 19.0 | 188.2 | |
| ROUNDUP POWERMAX | 32 fl oz/a A 303 | 41.13 | 19.5 | 243.9 | |
| PRIME OIL - COC | 1 % v/v A 601 | 29.78 | 19.4 | 176.7 | |
| N-PAK - AMS | 2.5 % v/v A 705 | 25.79 | 18.6 | 154.6 | |
| | Mean = | 32.06 | 19.1 | 190.8 | |
| 7 RESICORE | 40 fl oz/a A 202 | 40.05 | 19.9 | 236.3 | |
| ROUNDUP POWERMAX | 32 fl oz/a A 305 | 34.03 | 18.9 | 203.1 | |
| ACTIVATOR 90 - NIS | 0.25 % v/v A 502 | 34.13 | 18.7 | 204.3 | |
| N-PAK - AMS | 2.5 % v/v A 704 | 40.97 | 19.1 | 243.9 | |
| | Mean = | 37.30 | 19.2 | 221.9 | |
| 8 SURESTART II | 32 fl oz/a A 203 | 37.52 | 19.7 | 221.9 | |
| ROUNDUP POWERMAX | 32 fl oz/a A 304 | 39.73 | 19.5 | 235.5 | |
| ACTIVATOR 90 - NIS | 0.25 % v/v A 504 | 33.60 | 19.1 | 200.0 | |
| N-PAK - AMS | 2.5 % v/v A 801 | 19.66 | 21.0 | 114.4 | |
| | Mean = | 32.63 | 19.8 | 193.0 | |
| 9 HALEX GT | 57.6 fl oz/a A 204 | 39.41 | 19.8 | 232.7 | |
| AATREX | 16 fl oz/a A 302 | 40.54 | 19.6 | 240.0 | |
| ROUNDUP POWERMAX | 5.3 fl oz/a A 603 | 29.78 | 18.5 | 178.8 | |
| ACTIVATOR 90 - NIS | 0.25 % v/v A 803 | 38.12 | 19.9 | 225.0 | |
| N-PAK - AMS | 2.5 % v/v A | | | | |
| | Mean = | 36.96 | 19.4 | 219.1 | |
| 10 Untreated Check | 205 | 0.00 | 0.0 | 0.0 | |
| | 401 | 0.00 | 0.0 | 0.0 | |
| | 605 | 0.00 | 0.0 | 0.0 | |
| | 701 | 0.00 | 0.0 | 0.0 | |
| | Mean = | 0.00 | 0.0 | 0.0 | |

Purdue Weed Science

Armezon Tank-Mix Partners For Weed Control in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-18 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-18 Investigator: Dr. Bill Johnson
 Project ID: MKD H 2016 US C31 Study Director: Joe Ikley
 Sponsor Contact: BASF - Gery Welker

Pest Type
 W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
 AMBTR, Ambrosia trifida, = US
 ECHCG, Echinochloa crus-galli, = US
 CHEAL, Chenopodium album, = US
Crop Code
 ZEAMX, BCOR, Zea mays, = 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
 YIELD = yield
 MOICON = moisture content
Rating Unit
 % = percent
 lb/plot = pounds per plot
 BU = bushel
ARM Action Codes
 P = Rating scale of 0 to 100 (e.g. % control or injury)
 TY1 = 6.222857*[11]*(100-@MVAVGREP([12]))/84.5

| Pest Type | | W Weed AMBTR | W Weed ECHCG | W Weed CHEAL | |
|-------------------------------|----------------|-----------------|-----------------|-----------------|-------------|
| Pest Code | | Giant ragweed | Common barnyar> | common lambsqu> | |
| Pest Name | | | | | |
| Crop Code | ZEAMX | | | | ZEAMX |
| Crop Name | Corn | | | | Corn |
| Part Rated | PLOT C | PLOT P | PLOT P | PLOT P | PLOT C |
| Rating Date | May-31-2016 | May-31-2016 | May-31-2016 | May-31-2016 | Jun-15-2016 |
| Rating Type | PHYGEN | CONTRO | CONTRO | CONTRO | PHYGEN |
| Rating Unit | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 8 8 | 8 8 | 8 8 | 8 8 | 23 23 |
| Trt-Eval Interval | 8 DA-A | 8 DA-A | 8 DA-A | 8 DA-A | 23 DA-A |
| Days After Emergence | 21 DE-1 | 21 DE-1 | 21 DE-1 | 21 DE-1 | 36 DE-1 |
| ARM Action Codes | P | P | P | P | P |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 |
| Trt Treatment | Rate | | | | |
| No. Name | Rate Unit Code | 1 | 2 | 3 | 4 |
| 1 Untreated Check | | 0 c | 0 d | 0 b | 0 - |
| 2 ARMEZON PRO | 16 fl oz/a A | 0 c | 91 bc | 99 a | 100 - |
| AATREX | 16 fl oz/a A | | | | |
| PRIME OIL - COC | 1 % v/v A | | | | |
| N-PAK - AMS | 2.5 % v/v A | | | | |
| 3 ARMEZON PRO | 16 fl oz/a A | 1 bc | 97 a | 100 a | 100 - |
| AATREX | 16 fl oz/a A | | | | |
| ROUNDUP POWERMAX | 16 fl oz/a A | | | | |
| PRIME OIL - COC | 1 % v/v A | | | | |
| N-PAK - AMS | 2.5 % v/v A | | | | |
| 4 ARMEZON PRO | 16 fl oz/a A | 1 bc | 96 ab | 100 a | 100 - |
| AATREX | 16 fl oz/a A | | | | |
| ROUNDUP POWERMAX | 32 fl oz/a A | | | | |
| PRIME OIL - COC | 1 % v/v A | | | | |
| N-PAK - AMS | 2.5 % v/v A | | | | |
| 5 ARMEZON PRO | 16 fl oz/a A | 0 c | 98 a | 100 a | 100 - |
| CLARITY | 6 fl oz/a A | | | | |
| ROUNDUP POWERMAX | 32 fl oz/a A | | | | |
| ACTIVATOR 90 - NIS | 0.25 % v/v A | | | | |
| N-PAK - AMS | 2.5 % v/v A | | | | |
| 6 ACURON | 48 fl oz/a A | 1 bc | 96 ab | 100 a | 100 - |
| ROUNDUP POWERMAX | 32 fl oz/a A | | | | |
| PRIME OIL - COC | 1 % v/v A | | | | |
| N-PAK - AMS | 2.5 % v/v A | | | | |

Purdue Weed Science

Armezon Tank-Mix Partners For Weed Control in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-18 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-18 Investigator: Dr. Bill Johnson
 Project ID: MKD H 2016 US C31 Study Director: Joe Ikley
 Sponsor Contact: BASF - Gery Welker

| Pest Type | | W Weed AMBTR Giant ragweed | W Weed ECHCG Common barnyar> | W Weed CHEAL common lambsqu> | | | |
|-------------------------------|----------------|----------------------------------|------------------------------------|------------------------------------|-------------|----------|--------|
| Pest Code | | | | | | | |
| Pest Name | | | | | | | |
| Crop Code | ZEAMX | | | | ZEAMX | | |
| Crop Name | Corn | | | | Corn | | |
| Part Rated | PLOT C | PLOT P | PLOT P | PLOT P | PLOT C | | |
| Rating Date | May-31-2016 | May-31-2016 | May-31-2016 | May-31-2016 | Jun-15-2016 | | |
| Rating Type | PHYGEN | CONTRO | CONTRO | CONTRO | PHYGEN | | |
| Rating Unit | % | % | % | % | % | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | | |
| Days After First/Last Applic. | 8 8 | 8 8 | 8 8 | 8 8 | 23 23 | | |
| Trt-Eval Interval | 8 DA-A | 8 DA-A | 8 DA-A | 8 DA-A | 23 DA-A | | |
| Days After Emergence | 21 DE-1 | 21 DE-1 | 21 DE-1 | 21 DE-1 | 36 DE-1 | | |
| ARM Action Codes | P | P | P | P | P | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | | |
| Trt Treatment No. Name | Rate Unit | Appl Code | 1 | 2 | 3 | 4 | 5 |
| 7 RESICORE | 40 fl oz/a A | | 6 a | 95 ab | 100 a | 100 - | 0 - |
| ROUNDUP POWERMAX | 32 fl oz/a A | | | | | | |
| ACTIVATOR 90 - NIS | 0.25 % v/v A | | | | | | |
| N-PAK - AMS | 2.5 % v/v A | | | | | | |
| 8 SURESTART II | 32 fl oz/a A | | 5 ab | 89 c | 100 a | 100 - | 0 - |
| ROUNDUP POWERMAX | 32 fl oz/a A | | | | | | |
| ACTIVATOR 90 - NIS | 0.25 % v/v A | | | | | | |
| N-PAK - AMS | 2.5 % v/v A | | | | | | |
| 9 HALEX GT | 57.6 fl oz/a A | | 3 bc | 98 a | 100 a | 100 - | 0 - |
| AATREX | 16 fl oz/a A | | | | | | |
| ROUNDUP POWERMAX | 5.3 fl oz/a A | | | | | | |
| ACTIVATOR 90 - NIS | 0.25 % v/v A | | | | | | |
| N-PAK - AMS | 2.5 % v/v A | | | | | | |
| 10 Untreated Check | | | 0 c | 0 d | 0 b | 0 - | 0 - |
| LSD P=.05 | 2.7 | 3.7 | | | 1.1 | . | . |
| Standard Deviation | 1.9 | 2.6 | | | 0.8 | 0.0 | 0.0 |
| CV | 105.77 | 3.37 | | | 0.97 | 0.0 | 0.0 |
| Bartlett's X2 | 0.1 | 12.328 | | | 5.373 | 0.0 | 0.0 |
| P(Bartlett's X2) | 0.999 | 0.09 | | | 0.02* | . | . |
| Skewness | 1.1785* | -1.5274* | | | -1.5576* | -1.5591* | . |
| Kurtosis | 0.4317 | 0.4014 | | | 0.4484 | 0.4507 | . |
| Replicate F | 0.730 | 1.265 | | | 0.816 | 0.000 | 0.000 |
| Replicate Prob(F) | 0.5432 | 0.3060 | | | 0.4965 | 1.0000 | 1.0000 |
| Treatment F | 5.757 | 984.595 | | | 11747.103 | 0.000 | 0.000 |
| Treatment Prob(F) | 0.0002 | 0.0001 | | | 0.0001 | 1.0000 | 1.0000 |

Purdue Weed Science

Armezon Tank-Mix Partners For Weed Control in Conventional Till Corn

| | | |
|-------------------------------|-------------------------------------|------------------|
| Trial ID: 16S-TPAC-CORN-18 | Location: TPAC | Trial Year: 2016 |
| Protocol ID: 16S-TPAC-CORN-18 | Investigator: Dr. Bill Johnson | |
| Project ID: MKD H 2016 US C31 | Study Director: Joe Ikley | |
| | Sponsor Contact: BASF - Gery Welker | |

| Pest Type Pest Code Pest Name | W Weed AMBTR Giant ragweed | W Weed ECHCG Common barnyar> | W Weed CHEAL common lambsqu> | W Weed AMBTR Giant ragweed | W Weed ECHCG Common barnyar> | | |
|---|--|------------------------------------|------------------------------------|----------------------------------|------------------------------------|--------|-------|
| Crop Code | | | | | | | |
| Crop Name | | | | | | | |
| Part Rated | PLOT P | PLOT P | PLOT P | PLOT P | PLOT P | | |
| Rating Date | Jun-15-2016 | Jun-15-2016 | Jun-15-2016 | Jul-7-2016 | Jul-7-2016 | | |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | | |
| Rating Unit | % | % | % | % | % | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | | |
| Days After First/Last Applic. | 23 23 | 23 23 | 23 23 | 45 45 | 45 45 | | |
| Trt-Eval Interval | 23 DA-A | 23 DA-A | 23 DA-A | 45 DA-A | 45 DA-A | | |
| Days After Emergence | 36 DE-1 | 36 DE-1 | 36 DE-1 | 58 DE-1 | 58 DE-1 | | |
| ARM Action Codes | P | P | P | P | P | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | | |
| Trt Treatment No. Name | Rate Rate Unit | Appl Code | 6 | 7 | 8 | 9 | 10 |
| 1 Untreated Check | | | 0 b | 0 c | 0 b | 0 d | 0 d |
| 2 ARMEZON PRO AATREX PRIME OIL - COC N-PAK - AMS | 16 fl oz/a A 16 fl oz/a A 1 % v/v A 2.5 % v/v A | | 88 a | 85 b | 100 a | 71 c | 45 c |
| 3 ARMEZON PRO AATREX ROUNDUP POWERMAX PRIME OIL - COC N-PAK - AMS | 16 fl oz/a A 16 fl oz/a A 16 fl oz/a A 1 % v/v A 2.5 % v/v A | | 91 a | 93 a | 100 a | 79 bc | 75 b |
| 4 ARMEZON PRO AATREX ROUNDUP POWERMAX PRIME OIL - COC N-PAK - AMS | 16 fl oz/a A 16 fl oz/a A 32 fl oz/a A 1 % v/v A 2.5 % v/v A | | 89 a | 97 a | 100 a | 75 c | 89 ab |
| 5 ARMEZON PRO CLARITY ROUNDUP POWERMAX ACTIVATOR 90 - NIS N-PAK - AMS | 16 fl oz/a A 6 fl oz/a A 32 fl oz/a A 0.25 % v/v A 2.5 % v/v A | | 93 a | 99 a | 100 a | 84 abc | 90 ab |
| 6 ACURON ROUNDUP POWERMAX PRIME OIL - COC N-PAK - AMS | 48 fl oz/a A 32 fl oz/a A 1 % v/v A 2.5 % v/v A | | 92 a | 95 a | 100 a | 94 ab | 85 ab |

Purdue Weed Science

Armezon Tank-Mix Partners For Weed Control in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-18 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-18 Investigator: Dr. Bill Johnson
 Project ID: MKD H 2016 US C31 Study Director: Joe Ikley
 Sponsor Contact: BASF - Gery Welker

| Pest Type | W Weed AMBTR | W Weed ECHCG | W Weed CHEAL | W Weed AMBTR | W Weed ECHCG |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Pest Code | | | | | |
| Pest Name | Giant ragweed | Common barnyar> | common lambsqu> | Giant ragweed | Common barnyar> |
| Crop Code | | | | | |
| Crop Name | | | | | |
| Part Rated | PLOT P | PLOT P | PLOT P | PLOT P | PLOT P |
| Rating Date | Jun-15-2016 | Jun-15-2016 | Jun-15-2016 | Jul-7-2016 | Jul-7-2016 |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 23 23 | 23 23 | 23 23 | 45 45 | 45 45 |
| Trt-Eval Interval | 23 DA-A | 23 DA-A | 23 DA-A | 45 DA-A | 45 DA-A |
| Days After Emergence | 36 DE-1 | 36 DE-1 | 36 DE-1 | 58 DE-1 | 58 DE-1 |
| ARM Action Codes | P | P | P | P | P |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 |
| Trt Treatment | | | | | |
| No. Name | 6 | 7 | 8 | 9 | 10 |
| 7 RESICORE | 40 fl oz/a A | 94 a | 100 a | 100 a | 96 a |
| ROUNDUP POWERMAX | 32 fl oz/a A | | | | |
| ACTIVATOR 90 - NIS | 0.25 % v/v A | | | | |
| N-PAK - AMS | 2.5 % v/v A | | | | |
| 8 SURESTART II | 32 fl oz/a A | 89 a | 99 a | 100 a | 83 abc |
| ROUNDUP POWERMAX | 32 fl oz/a A | | | | |
| ACTIVATOR 90 - NIS | 0.25 % v/v A | | | | |
| N-PAK - AMS | 2.5 % v/v A | | | | |
| 9 HALEX GT | 57.6 fl oz/a A | 95 a | 94 a | 100 a | 91 ab |
| AATREX | 16 fl oz/a A | | | | |
| ROUNDUP POWERMAX | 5.3 fl oz/a A | | | | |
| ACTIVATOR 90 - NIS | 0.25 % v/v A | | | | |
| N-PAK - AMS | 2.5 % v/v A | | | | |
| 10 Untreated Check | | 0 b | 0 c | 0 b | 0 d |
| LSD P=.05 | 5.0 | 6.0 | 0.2 | 11.0 | 13.3 |
| Standard Deviation | 3.4 | 4.1 | 0.2 | 7.6 | 9.2 |
| CV | 4.69 | 5.39 | 0.2 | 11.3 | 13.97 |
| Bartlett's X2 | 3.552 | 18.542 | 0.0 | 18.207 | 9.559 |
| P(Bartlett's X2) | 0.737 | 0.01* | . | 0.011* | 0.145 |
| Skewness | -1.5155* | -1.4886* | -1.559* | -1.2585* | -1.0044* |
| Kurtosis | 0.3845 | 0.3354 | 0.4507 | -0.0563 | -0.6292 |
| Replicate F | 2.658 | 0.485 | 1.000 | 2.733 | 1.441 |
| Replicate Prob(F) | 0.0684 | 0.6954 | 0.4079 | 0.0633 | 0.2527 |
| Treatment F | 508.180 | 386.079 | 284267.695 | 91.390 | 66.964 |
| Treatment Prob(F) | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

Purdue Weed Science

Armezon Tank-Mix Partners For Weed Control in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-18 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-18 Investigator: Dr. Bill Johnson
 Project ID: MKD H 2016 US C31 Study Director: Joe Ikley
 Sponsor Contact: BASF - Gery Welker

| Trt No. | Treatment Name | Rate | Appl Unit | Code | 11 | 12 | 13 |
|---------|--------------------|------------|-----------|------|---------|---------|---------|
| 1 | Untreated Check | | | | 0.00 b | 0.0 c | 0.0 b |
| 2 | ARMEZON PRO | 16 fl oz/a | A | | 29.87 a | 18.6 b | 178.9 a |
| | AATREX | 16 fl oz/a | A | | | | |
| | PRIME OIL - COC | 1 % v/v | A | | | | |
| | N-PAK - AMS | 2.5 % v/v | A | | | | |
| 3 | ARMEZON PRO | 16 fl oz/a | A | | 30.35 a | 19.1 ab | 180.9 a |
| | AATREX | 16 fl oz/a | A | | | | |
| | ROUNDUP POWERMAX | 16 fl oz/a | A | | | | |
| | PRIME OIL - COC | 1 % v/v | A | | | | |
| | N-PAK - AMS | 2.5 % v/v | A | | | | |
| 4 | ARMEZON PRO | 16 fl oz/a | A | | 34.44 a | 18.8 ab | 205.9 a |
| | AATREX | 16 fl oz/a | A | | | | |
| | ROUNDUP POWERMAX | 32 fl oz/a | A | | | | |
| | PRIME OIL - COC | 1 % v/v | A | | | | |
| | N-PAK - AMS | 2.5 % v/v | A | | | | |
| 5 | ARMEZON PRO | 16 fl oz/a | A | | 36.48 a | 18.8 ab | 218.1 a |
| | CLARITY | 6 fl oz/a | A | | | | |
| | ROUNDUP POWERMAX | 32 fl oz/a | A | | | | |
| | ACTIVATOR 90 - NIS | 0.25 % v/v | A | | | | |
| | N-PAK - AMS | 2.5 % v/v | A | | | | |
| 6 | ACURON | 48 fl oz/a | A | | 32.06 a | 19.1 ab | 190.8 a |
| | ROUNDUP POWERMAX | 32 fl oz/a | A | | | | |
| | PRIME OIL - COC | 1 % v/v | A | | | | |
| | N-PAK - AMS | 2.5 % v/v | A | | | | |

Purdue Weed Science

Armezon Tank-Mix Partners For Weed Control in Conventional Till Corn

| | | |
|-------------------------------|-------------------------------------|------------------|
| Trial ID: 16S-TPAC-CORN-18 | Location: TPAC | Trial Year: 2016 |
| Protocol ID: 16S-TPAC-CORN-18 | Investigator: Dr. Bill Johnson | |
| Project ID: MKD H 2016 US C31 | Study Director: Joe Ikley | |
| | Sponsor Contact: BASF - Gery Welker | |

| | | | |
|-------------------------------|----------------|------------|------------|
| Pest Type | | | |
| Pest Code | | | |
| Pest Name | | | |
| Crop Code | ZEAMX | ZEAMX | ZEAMX |
| Crop Name | Corn | Corn | Corn |
| Part Rated | PLOT C | PLOT C | PLOT C |
| Rating Date | Oct-8-2016 | Oct-8-2016 | Oct-8-2016 |
| Rating Type | YIELD | MOICON | YIELD |
| Rating Unit | lb/plot | % | BU |
| Number of Subsamples | 1 | 1 | 1 |
| Days After First/Last Applic. | 138 138 | 138 138 | 138 138 |
| Trt-Eval Interval | 164 DA-A | 164 DA-A | 164 DA-A |
| Days After Emergence | 151 DE-1 | 151 DE-1 | 151 DE-1 |
| ARM Action Codes | | | TY1 |
| Number of Decimals | 2 | 1 | 1 |
| Trt Treatment | Rate | Appl | |
| No. Name | Unit | Code | |
| | 11 | 12 | 13 |
| 7 RESICORE | 40 fl oz/a A | 37.30 a | 19.2 ab |
| ROUNDUP POWERMAX | 32 fl oz/a A | | 221.9 a |
| ACTIVATOR 90 - NIS | 0.25 % v/v A | | |
| N-PAK - AMS | 2.5 % v/v A | | |
| 8 SURESTART II | 32 fl oz/a A | 32.63 a | 19.8 a |
| ROUNDUP POWERMAX | 32 fl oz/a A | | 193.0 a |
| ACTIVATOR 90 - NIS | 0.25 % v/v A | | |
| N-PAK - AMS | 2.5 % v/v A | | |
| 9 HALEX GT | 57.6 fl oz/a A | 36.96 a | 19.4 ab |
| AATREX | 16 fl oz/a A | | 219.1 a |
| ROUNDUP POWERMAX | 5.3 fl oz/a A | | |
| ACTIVATOR 90 - NIS | 0.25 % v/v A | | |
| N-PAK - AMS | 2.5 % v/v A | | |
| 10 Untreated Check | | 0.00 b | 0.0 c |
| | | | 0.0 b |
| LSD P=.05 | 6.106 | 0.73 | 36.18 |
| Standard Deviation | 4.201 | 0.50 | 24.89 |
| CV | 16.07 | 3.4 | 15.99 |
| Bartlett's X2 | 3.898 | 6.142 | 4.283 |
| P(Bartlett's X2) | 0.791 | 0.523 | 0.747 |
| Skewness | -1.1215* | -1.4993* | -1.1303* |
| Kurtosis | -0.2768 | 0.296 | -0.2728 |
| Replicate F | 4.446 | 1.766 | 4.372 |
| Replicate Prob(F) | 0.0119 | 0.1784 | 0.0128 |
| Treatment F | 47.125 | 1019.942 | 47.570 |
| Treatment Prob(F) | 0.0001 | 0.0001 | 0.0001 |

Purdue Weed Science

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Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, = US

ECHCG, Echinochloa crus-galli, = US

CHEAL, Chenopodium album, = US

Crop Code

ZEAMX, BCOR, Zea mays, = 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

YIELD = yield

MOICON = moisture content

Rating Unit

% = percent

lb/plot = pounds per plot

BU = bushel

ARM Action Codes

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

TY1 = $6.222857 * [11] * (100 - @MVAVGREP([12])) / 84.5$