

The Ohio State University

Diflexx Duo MPOST Efficacy and Tolerance

Trial ID: 17DIFLEXXDUO Location: Western Branch F-8 E Trial Year: 2017
 Protocol ID: 17DIFLEXXDUO Investigator: Dr. Mark M. Loux
 Project ID: HP17USAWMX Study Director: Anthony Dobbels
 Sponsor Contact: David Lamore, Bayer CropScience

General Trial Information

Study Director: Anthony Dobbels
Investigator: Dr. Mark M. Loux

Trial Location

City: South Charleston **Country:** USA United States
State/Prov.: Ohio
Postal Code: 45368 **Climate Zone:** USWARM US Warm Continental

Latitude of LL Corner °: 39.86007 N
Longitude of LL Corner °: 83.67029 W
Altitude of LL Corner, Unit: 1088.00 m
Conducted Under GLP: No
Conducted Under GEP: No
No.

Contacts

Study Director: Anthony Dobbels
Investigator: Dr. Mark M. Loux
Organization: The Ohio State University
Address: 2021 Coffey Road
City+State/Prov: Columbus, Ohio
Postal Code: 43210
Country: USA United States

Cooperator/Landowner

Other Contacts

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC61-54RIB
Description: Dekalb RR/LL

Planting Rate, Unit: 32097 S/A
Depth, Unit: 1.75 IN
Row Spacing, Unit: 30 IN
Planting Date: 4-25-2017
Planting Method: PLANTD planted
Planting Equipment: FPP Finger Pickup Planter
Emergence Date: 5-10-2017

Soil Temperature, Unit: 56 F
Soil Moisture: DRY dry
Seed Bed: MEDIUM medium

Pest Description

- Pest 1 Type:** W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail
- Pest 2 Type:** W **Code:** ECHCG Echinochloa crus-galli
Common Name: Common barnyard grass
- Pest 3 Type:** W **Code:** AMARE Amaranthus retroflexus
Common Name: Redroot pigweed
- Pest 4 Type:** W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed
- Pest 5 Type:** W **Code:** AMBEL Ambrosia artemisiifolia
Common Name: Common ragweed
- Pest 6 Type:** W **Code:** POLPY Persicaria pensylvanica
Common Name: annual smartweed
- Pest 7 Type:** W **Code:** CHEAL Chenopodium album
Common Name: common lambsquarters

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT2 **Treatments:** 12
Replications: 3
No. Previous Crop Year
 1. Soybean 2016
Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CON
Study Design: RACOB Randomized Complete Block (RCB)

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Maintenance

No.

Soil Description

Description Name: F-8 East

% OM: 3.1

pH: 5.9

CEC: 17.3

Texture: SICL silty clay loam

Soil Name: Kokomo

Fert. Level: G good

Soil Drainage: G good

Additional Measured Elements

Application Description

A

Application Date: 5-30-2017

Appl. Start Time: 9:25 AM

Appl. Stop Time: 9:45 AM

Application Method: SPRAY

Application Timing: POST

Application Placement: BROFOL

Applied By: Dobbels

Air Temperature, Unit: 70.5 F

% Relative Humidity: 56

Wind Velocity, Unit: 6 MPH

Wind Direction: NE

Dew Presence (Y/N): N no

Soil Temperature, Unit: 61 F

Soil Moisture: GOOD

% Cloud Cover: 0

Next Moisture Occurred On: 6-4-2017

Time to Next Moisture, Unit: 5 DAY

Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale: ZEAMX BCOR

Stage Scale Used: BBCH

Stage Majority, Percent: 14 100

Height, Unit: 7 IN

Height Minimum, Maximum: 6 8

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Pest Stage At Each Application

A

Pest 1 Code, Type, Scale: SETFA W
Stage Majority, Percent: 14 100

Height, Unit: 5 IN
Height Minimum, Maximum: 4 6
Density, Unit: 120 m2

Pest 2 Code, Type, Scale: ECHCG W
Stage Majority, Percent: 14 100

Height, Unit: 5 IN
Height Minimum, Maximum: 4 6
Density, Unit: 153 m2

Pest 3 Code, Type, Scale: AMARE W
Stage Majority, Percent: 19 100

Height, Unit: 5.5 IN
Height Minimum, Maximum: 5 6
Density, Unit: 15 M2

Pest 4 Code, Type, Scale: AMBTR W
Stage Majority, Percent: 19 100

Height, Unit: 9.5 IN
Height Minimum, Maximum: 9 10
Density, Unit: 7 M2

Pest 5 Code, Type, Scale: AMBEL W
Stage Majority, Percent: 19 100

Height, Unit: 9.5 IN
Height Minimum, Maximum: 9 10
Density, Unit: 0.33 M2

Pest 6 Code, Type, Scale: POLPY W
Stage Majority, Percent: 15 100

Height, Unit: 4 IN
Height Minimum, Maximum: 4 6
Density, Unit: 1 M2

Pest 7 Code, Type, Scale: CHEAL W
Stage Majority, Percent: 18 100

Height, Unit: 4 IN
Height Minimum, Maximum: 3 4
Density, Unit: 17 M2

Application Equipment

A

Appl. Equipment: 10' AI XR
Equipment Type: SPRBAC
Operation Pressure, Unit: 46 PSI
Nozzle Type: AI XR
Nozzle Size: 110015
Nozzle Spacing, Unit: 18 IN

Boom Length, Unit: 10 FT
Boom Height, Unit: 20 IN
Ground Speed, Unit: 3 MPH

Carrier: WATER

Spray Volume, Unit: 15 GPA
Mix Size, Unit: 2 Liters

Propellant: CO2

Trt No Treatment Application Comment

Date By Notes

No. Date By Deviations

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| | | | | | | | |
|-------------------------------|----------|---------------|---------------|-----------------|------------|---------------|-----------------|
| Pest Type | | W Weed | W Weed | W Weed | W Weed | W Weed | W Weed |
| Pest Code | | SETFA | AMBTR | CHEAL | ABUTH | HIBTR | AMARE |
| Pest Name | | Giant foxtail | Giant ragweed | common lambsqu> | velvetleaf | Venice mallow | Redroot pigweed |
| Crop Code | ZEAMX | | | | | | |
| Crop Name | Corn | | | | | | |
| Rating Date | 6-6-2017 | 6-6-2017 | 6-6-2017 | 6-6-2017 | 6-6-2017 | 6-6-2017 | 6-6-2017 |
| Rating Type | PHYNEC | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 7 7 | 7 7 | 7 7 | 7 7 | 7 7 | 7 7 | 7 7 |
| Trt-Eval Interval | 7 DA-A | 7 DA-A | 7 DA-A | 7 DA-A | 7 DA-A | 7 DA-A | 7 DA-A |
| Days After Emergence | 27 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Other Rate | Other Rate | Appl Unit Code | 1* | 2* | 3* | 4* | 5* | 6* | 7* |
|---------|---------------------|------------|------------|----------------|------|--------|------|--------|-------|-------|--------|
| 1 | UTC | | | | 0 b | 0 e | 0 b | 0 d | 0 f | 0 c | 0 c |
| 2 | Diflexx Duo | 32 oz/a | | A | 0 b | 53 bcd | 98 a | 93 ab | 100 a | 100 a | 100 a |
| | 2 Roundup PowerMax | 32 oz/a | | A | | | | | | | |
| | 2 Atrazine | 16 oz/a | | A | | | | | | | |
| | 2 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 3 | Diflexx Duo | 32 oz/a | | A | 1 b | 60 abc | 98 a | 93 ab | 100 a | 100 a | 98 b |
| | 3 Atrazine | 16 oz/a | | A | | | | | | | |
| | 3 MSO | 0.6 qt/a | | A | | | | | | | |
| | 3 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 4 | Diflexx Duo | 24 oz/a | | A | 0 b | 40 d | 93 a | 95 ab | 100 e | 100 a | 100 ab |
| | 4 Roundup PowerMax | 32 oz/a | | A | | | | | | | |
| | 4 Atrazine | 16 oz/a | | A | | | | | | | |
| | 4 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 5 | Diflexx Duo | 24 oz/a | | A | 0 b | 73 a | 93 a | 90 ab | 100 d | 100 a | 100 a |
| | 5 Liberty | 32 oz/a | | A | | | | | | | |
| | 5 Atrazine | 16 oz/a | | A | | | | | | | |
| | 5 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 6 | Capreno | 3 oz/a | | A | 0 b | 50 cd | 85 a | 85 abc | 100 | 100 a | 100 a |
| | 6 Roundup PowerMax | 32 oz/a | | A | | | | | | | |
| | 6 Atrazine | 16 oz/a | | A | | | | | | | |
| | 6 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 7 | Capreno | 3 oz/a | | A | 1 b | 68 a | 90 a | 100 a | 100 c | 100 a | 100 a |
| | 7 Liberty | 32 oz/a | | A | | | | | | | |
| | 7 Atrazine | 16 oz/a | | A | | | | | | | |
| | 7 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 8 | Resicore | 2 qt/a | | A | 10 a | 70 a | 93 a | 100 a | 100 | 100 a | 100 a |
| | 8 Liberty | 32 oz/a | | A | | | | | | | |
| | 8 Atrazine | 16 oz/a | | A | | | | | | | |
| | 8 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 9 | Halex GT | 57.6 oz/a | | A | 0 b | 72 a | 92 a | 98 ab | 100 | 100 a | 100 a |
| | 9 Atrazine | 16 oz/a | | A | | | | | | | |
| | 9 NIS | 4.8 oz/a | | A | | | | | | | |
| | 9 N PAK AMS | 48 oz/a | | A | | | | | | | |
| 10 | Armezon Pro | 16 oz/a | | A | 0 b | 60 abc | 83 a | 70 c | 100 | 100 a | 100 a |
| | 10 Roundup PowerMax | 32 oz/a | | A | | | | | | | |
| | 10 Atrazine | 16 oz/a | | A | | | | | | | |
| | 10 N PAK AMS | 1.5 qt/a | | A | | | | | | | |

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,10,11,15,20,21,27,32,37,38,42,43 because error mean square = 0.

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Trial Year: 2017

| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | W Weed | | | | | |
|-------------------------------|------------------|---------------|----------------|----------------|---------------|-----------------|----------|----------|----------|----------|----------|
| Pest Code | SETFA | AMBTR | CHEAL | ABUTH | HIBTR | AMARE | | | | | |
| Pest Name | Giant foxtail | Giant ragweed | common lambsqu | velvetleaf | Venice mallow | Redroot pigweed | | | | | |
| Crop Code | ZEAMX | | | | | | | | | | |
| Crop Name | Corn | | | | | | | | | | |
| Rating Date | 6-6-2017 | 6-6-2017 | 6-6-2017 | 6-6-2017 | 6-6-2017 | 6-6-2017 | | | | | |
| Rating Type | PHYNEC | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | | | | | |
| Rating Unit | % | % | % | % | % | % | | | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | 1 | | | | | |
| Days After First/Last Applic. | 7 7 | 7 7 | 7 7 | 7 7 | 7 7 | 7 7 | | | | | |
| Trt-Eval Interval | 7 DA-A | 7 DA-A | 7 DA-A | 7 DA-A | 7 DA-A | 7 DA-A | | | | | |
| Days After Emergence | 27 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 | | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Trt No. | Treatment Name | Other Rate | Other Rate | Appl Unit Code | 1* | 2* | 3* | 4* | 5* | 6* | 7* |
| 11 | Armezon | 0.57 oz/a | | A | 0 b | 47 cd | 99 a | 87 ab | 100 a | 100 a | 100 a |
| 11 | Status | 3 oz/a | | A | | | | | | | |
| 11 | Roundup PowerMax | 32 oz/a | | A | | | | | | | |
| 11 | Atrazine | 16 oz/a | | A | | | | | | | |
| 11 | N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 12 | Armezon Pro | 24 oz/a | | A | 10 a | 65 ab | 83 a | 83 bc | 100 a | 93 b | 100 a |
| 12 | Atrazine | 16 oz/a | | A | | | | | | | |
| 12 | MSO | 0.6 qt/a | | A | | | | | | | |
| 12 | N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| LSD P=.05 | | | | | 1.2 | 15.0 | 16.6 | 16.2 | . | 5.6 | 1.4 |
| Standard Deviation | | | | | 0.7 | 8.9 | 9.8 | 9.6 | 0.0 | 3.3 | 0.8 |
| CV | | | | | 39.44 | 16.13 | 11.69 | 11.55 | 0.0 | 3.66 | 0.91 |
| Bartlett's X2 | | | | | 0.0 | 9.783 | 13.849 | 7.593 | 0.0 | 0.0 | 3.744 |
| P(Bartlett's X2) | | | | | . | 0.46 | 0.18 | 0.474 | . | . | 0.053 |
| Skewness | | | | | 1.7519* | -1.4425* | -2.4573* | -2.3071* | -3.1478* | -3.0784* | -3.1428* |
| Kurtosis | | | | | 1.2679 | 1.7012* | 5.5044* | 4.9034* | 8.3714* | 8.0491* | 8.3507* |
| Replicate F | | | | | 0.478 | 2.934 | 2.689 | 0.636 | 0.000 | 1.000 | 1.435 |
| Replicate Prob(F) | | | | | 0.6262 | 0.0742 | 0.0902 | 0.5387 | 1.0000 | 0.3840 | 0.2596 |
| Treatment F | | | | | 84.348 | 15.712 | 22.670 | 24.680 | 0.000 | 223.273 | 3574.913 |
| Treatment Prob(F) | | | | | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 1.0000 | 0.0001 | 0.0001 |

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* Adjusted means

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Protocol ID: 17DIFLEXXDUO
Project ID: HP17USAWMX

Location: Western Branch F-8 E
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | W Weed |
|-------------------------------|-----------------|---------------------|----------|----------------|---------------|--------------------------|
| Pest Code | IPOHE | SIDSP | POLPY | AMBEL | SETFA | AMBTR |
| Pest Name | ivy-leaf morni> | Prickly sida annual | smartwe> | Common ragweed | Giant ragweed | Giant ragweed foxtail |
| Crop Code | | | | | | |
| Crop Name | | | | | | |
| Rating Date | 6-6-2017 | 6-6-2017 | 6-6-2017 | 6-6-2017 | 6-13-2017 | 6-13-2017 |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 7 7 | 7 7 | 7 7 | 7 7 | 14 14 | 14 14 |
| Trt-Eval Interval | 7 DA-A | 7 DA-A | 7 DA-A | 7 DA-A | 14 DA-A | 14 DA-A |
| Days After Emergence | 27 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 | 34 DE-1 | 34 DE-1 |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Other Rate | Other Rate | Appl Unit Code | 8* | 9* | 10* | 11* | 12* | 13* |
|---------|---------------------|------------|------------|----------------|-------|-------|-------|-------|--------|------|
| 1 | UTC | | | | 0 c | 0 c | 0 f | 0 f | 0 e | 0 b |
| 2 | Diflexx Duo | 32 oz/a | | A | 100 a | 100 a | 100 a | 100 a | 53 bcd | 98 a |
| | 2 Roundup PowerMax | 32 oz/a | | A | | | | | | |
| | 2 Atrazine | 16 oz/a | | A | | | | | | |
| | 2 N PAK AMS | 1.5 qt/a | | A | | | | | | |
| 3 | Diflexx Duo | 32 oz/a | | A | 100 a | 93 ab | 100 a | 100 a | 60 abc | 98 a |
| | 3 Atrazine | 16 oz/a | | A | | | | | | |
| | 3 MSO | 0.6 qt/a | | A | | | | | | |
| | 3 N PAK AMS | 1.5 qt/a | | A | | | | | | |
| 4 | Diflexx Duo | 24 oz/a | | A | 100 a | 100 a | 100 e | 100 e | 40 d | 93 a |
| | 4 Roundup PowerMax | 32 oz/a | | A | | | | | | |
| | 4 Atrazine | 16 oz/a | | A | | | | | | |
| | 4 N PAK AMS | 1.5 qt/a | | A | | | | | | |
| 5 | Diflexx Duo | 24 oz/a | | A | 100 a | 100 a | 100 d | 100 d | 73 a | 93 a |
| | 5 Liberty | 32 oz/a | | A | | | | | | |
| | 5 Atrazine | 16 oz/a | | A | | | | | | |
| | 5 N PAK AMS | 1.5 qt/a | | A | | | | | | |
| 6 | Capreno | 3 oz/a | | A | 100 a | 100 a | 100 | 100 | 50 cd | 85 a |
| | 6 Roundup PowerMax | 32 oz/a | | A | | | | | | |
| | 6 Atrazine | 16 oz/a | | A | | | | | | |
| | 6 N PAK AMS | 1.5 qt/a | | A | | | | | | |
| 7 | Capreno | 3 oz/a | | A | 100 a | 100 a | 100 c | 100 c | 68 a | 90 a |
| | 7 Liberty | 32 oz/a | | A | | | | | | |
| | 7 Atrazine | 16 oz/a | | A | | | | | | |
| | 7 N PAK AMS | 1.5 qt/a | | A | | | | | | |
| 8 | Resicore | 2 qt/a | | A | 100 a | 95 ab | 100 | 100 | 70 a | 93 a |
| | 8 Liberty | 32 oz/a | | A | | | | | | |
| | 8 Atrazine | 16 oz/a | | A | | | | | | |
| | 8 N PAK AMS | 1.5 qt/a | | A | | | | | | |
| 9 | Halex GT | 57.6 oz/a | | A | 93 b | 100 a | 100 | 100 | 72 a | 92 a |
| | 9 Atrazine | 16 oz/a | | A | | | | | | |
| | 9 NIS | 4.8 oz/a | | A | | | | | | |
| | 9 N PAK AMS | 48 oz/a | | A | | | | | | |
| 10 | Armezon Pro | 16 oz/a | | A | 100 a | 100 a | 100 | 100 | 60 abc | 83 a |
| | 10 Roundup PowerMax | 32 oz/a | | A | | | | | | |
| | 10 Atrazine | 16 oz/a | | A | | | | | | |
| | 10 N PAK AMS | 1.5 qt/a | | A | | | | | | |

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|-------------------------------|--|------------|----------------|----------------|-----------|--------------------------------|----------|----------|----------|
| Pest Code | IPOHE | SIDSP | POLPY | AMBEL | SETFA | AMBTR | | | |
| Pest Name | ivy-leaf morni> Prickly sida annual smartwe> | | | Common ragweed | | Giant Giant ragweed foxtail | | | |
| Crop Code | | | | | | | | | |
| Crop Name | | | | | | | | | |
| Rating Date | 6-6-2017 | 6-6-2017 | 6-6-2017 | 6-6-2017 | 6-13-2017 | 6-13-2017 | | | |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | | | |
| Rating Unit | % | % | % | % | % | % | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| Days After First/Last Applic. | 7 7 | 7 7 | 7 7 | 7 7 | 14 14 | 14 14 | | | |
| Trt-Eval Interval | 7 DA-A | 7 DA-A | 7 DA-A | 7 DA-A | 14 DA-A | 14 DA-A | | | |
| Days After Emergence | 27 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 | 34 DE-1 | 34 DE-1 | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Trt Treatment No. Name | Other Rate | Other Rate | Appl Unit Code | 8* | 9* | 10* | 11* | 12* | 13* |
| 11 Armezon | 0.57 oz/a | | A | 100 a | 100 a | 100 a | 100 a | 47 cd | 99 a |
| 11 Status | 3 oz/a | | A | | | | | | |
| 11 Roundup PowerMax | 32 oz/a | | A | | | | | | |
| 11 Atrazine | 16 oz/a | | A | | | | | | |
| 11 N PAK AMS | 1.5 qt/a | | A | | | | | | |
| 12 Armezon Pro | 24 oz/a | | A | 100 a | 87 b | 100 a | 100 a | 65 ab | 83 a |
| 12 Atrazine | 16 oz/a | | A | | | | | | |
| 12 MSO | 0.6 qt/a | | A | | | | | | |
| 12 N PAK AMS | 1.5 qt/a | | A | | | | | | |
| LSD P=.05 | | | | 5.4 | 8.5 | . | . | 15.0 | 16.6 |
| Standard Deviation | | | | 3.2 | 5.0 | 0.0 | 0.0 | 8.9 | 9.8 |
| CV | | | | 3.49 | 5.64 | 0.0 | 0.0 | 16.13 | 11.69 |
| Bartlett's X2 | | | | 8.832 | 17.298 | 0.0 | 0.0 | 9.783 | 13.849 |
| P(Bartlett's X2) | | | | 0.003* | 0.002* | . | . | 0.46 | 0.18 |
| Skewness | | | | -3.0783* | -2.9191* | -3.1478* | -3.1478* | -1.4425* | -2.4573* |
| Kurtosis | | | | 8.0493* | 7.3502* | 8.3714* | 8.3714* | 1.7012* | 5.5044* |
| Replicate F | | | | 0.943 | 2.438 | 0.000 | 0.000 | 2.934 | 2.689 |
| Replicate Prob(F) | | | | 0.4046 | 0.1106 | 1.0000 | 1.0000 | 0.0742 | 0.0902 |
| Treatment F | | | | 245.311 | 95.618 | 0.000 | 0.000 | 15.712 | 22.670 |
| Treatment Prob(F) | | | | 0.0001 | 0.0001 | 1.0000 | 1.0000 | 0.0001 | 0.0001 |

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Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | W Weed |
|-------------------------------|-------------------|------------|---------------|-----------------|-----------------|--------------|
| Pest Code | CHEAL | ABUTH | HIBTR | AMARE | IPOHE | SIDSP |
| Pest Name | common lambsq> | velvetleaf | Venice mallow | Redroot pigweed | ivy-leaf morni> | Prickly sida |
| Crop Code | 6-13-2017 | 6-13-2017 | 6-13-2017 | 6-13-2017 | 6-13-2017 | 6-13-2017 |
| Crop Name | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Date | % | % | % | % | % | % |
| Rating Type | 1 | 1 | 1 | 1 | 1 | 1 |
| Rating Unit | 14 | 14 | 14 | 14 | 14 | 14 |
| Number of Subsamples | 14 DA-A | 14 DA-A | 14 DA-A | 14 DA-A | 14 DA-A | 14 DA-A |
| Days After First/Last Applic. | 34 DE-1 | 34 DE-1 | 34 DE-1 | 34 DE-1 | 34 DE-1 | 34 DE-1 |
| Trt-Eval Interval | 0 | 0 | 0 | 0 | 0 | 0 |
| Days After Emergence | | | | | | |
| Number of Decimals | | | | | | |

| Trt No. | Treatment Name | Other Rate | Other Rate | Appl Unit Code | 14* | 15* | 16* | 17* | 18* | 19* |
|---------|---------------------|------------|------------|----------------|--------|-------|-------|--------|-------|-------|
| 1 | UTC | | | | 0 d | 0 f | 0 c | 0 c | 0 c | 0 c |
| 2 | Diflexx Duo | 32 oz/a | | A | 93 ab | 100 a | 100 a | 100 a | 100 a | 100 a |
| | 2 Roundup PowerMax | 32 oz/a | | A | | | | | | |
| | 2 Atrazine | 16 oz/a | | A | | | | | | |
| | 2 N PAK AMS | 1.5 qt/a | | A | | | | | | |
| 3 | Diflexx Duo | 32 oz/a | | A | 93 ab | 100 a | 100 a | 98 b | 100 a | 93 ab |
| | 3 Atrazine | 16 oz/a | | A | | | | | | |
| | 3 MSO | 0.6 qt/a | | A | | | | | | |
| | 3 N PAK AMS | 1.5 qt/a | | A | | | | | | |
| 4 | Diflexx Duo | 24 oz/a | | A | 95 ab | 100 e | 100 a | 100 ab | 100 a | 100 a |
| | 4 Roundup PowerMax | 32 oz/a | | A | | | | | | |
| | 4 Atrazine | 16 oz/a | | A | | | | | | |
| | 4 N PAK AMS | 1.5 qt/a | | A | | | | | | |
| 5 | Diflexx Duo | 24 oz/a | | A | 90 ab | 100 d | 100 a | 100 a | 100 a | 100 a |
| | 5 Liberty | 32 oz/a | | A | | | | | | |
| | 5 Atrazine | 16 oz/a | | A | | | | | | |
| | 5 N PAK AMS | 1.5 qt/a | | A | | | | | | |
| 6 | Capreno | 3 oz/a | | A | 85 abc | 100 | 100 a | 100 a | 100 a | 100 a |
| | 6 Roundup PowerMax | 32 oz/a | | A | | | | | | |
| | 6 Atrazine | 16 oz/a | | A | | | | | | |
| | 6 N PAK AMS | 1.5 qt/a | | A | | | | | | |
| 7 | Capreno | 3 oz/a | | A | 100 a | 100 c | 100 a | 100 a | 100 a | 100 a |
| | 7 Liberty | 32 oz/a | | A | | | | | | |
| | 7 Atrazine | 16 oz/a | | A | | | | | | |
| | 7 N PAK AMS | 1.5 qt/a | | A | | | | | | |
| 8 | Resicore | 2 qt/a | | A | 100 a | 100 | 100 a | 100 a | 100 a | 95 ab |
| | 8 Liberty | 32 oz/a | | A | | | | | | |
| | 8 Atrazine | 16 oz/a | | A | | | | | | |
| | 8 N PAK AMS | 1.5 qt/a | | A | | | | | | |
| 9 | Halex GT | 57.6 oz/a | | A | 98 ab | 100 | 100 a | 100 a | 93 b | 100 a |
| | 9 Atrazine | 16 oz/a | | A | | | | | | |
| | 9 NIS | 4.8 oz/a | | A | | | | | | |
| | 9 N PAK AMS | 48 oz/a | | A | | | | | | |
| 10 | Armezon Pro | 16 oz/a | | A | 70 c | 100 | 100 a | 100 a | 100 a | 100 a |
| | 10 Roundup PowerMax | 32 oz/a | | A | | | | | | |
| | 10 Atrazine | 16 oz/a | | A | | | | | | |
| | 10 N PAK AMS | 1.5 qt/a | | A | | | | | | |

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,10,11,15,20,21,27,32,37,38,42,43 because error mean square = 0.

The Ohio State University

Diflexx Duo MPOST Efficacy and Tolerance

Trial ID: 17DIFLEXXDUO
Protocol ID: 17DIFLEXXDUO
Project ID: HP17USAWMX

Location: Western Branch F-8 E
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | W Weed | | | | |
|-------------------------------|------------------|------------|---------------|-----------------|-----------------|--------------|----------|----------|----------|----------|
| Pest Code | CHEAL | ABUTH | HIBTR | AMARE | IPHOE | SIDSP | | | | |
| Pest Name | common lambsqu | velvetleaf | Venice mallow | Redroot pigweed | ivy-leaf morni> | Prickly sida | | | | |
| Crop Code | | | | | | | | | | |
| Crop Name | | | | | | | | | | |
| Rating Date | 6-13-2017 | 6-13-2017 | 6-13-2017 | 6-13-2017 | 6-13-2017 | 6-13-2017 | | | | |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | | | | |
| Rating Unit | % | % | % | % | % | % | | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| Days After First/Last Applic. | 14 14 | 14 14 | 14 14 | 14 14 | 14 14 | 14 14 | | | | |
| Trt-Eval Interval | 14 DA-A | 14 DA-A | 14 DA-A | 14 DA-A | 14 DA-A | 14 DA-A | | | | |
| Days After Emergence | 34 DE-1 | 34 DE-1 | 34 DE-1 | 34 DE-1 | 34 DE-1 | 34 DE-1 | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Trt No. | Treatment Name | Other Rate | Other Rate | Appl Unit Code | 14* | 15* | 16* | 17* | 18* | 19* |
| 11 | Armezon | 0.57 oz/a | | A | 87 ab | 100 a | 100 a | 100 a | 100 a | 100 a |
| 11 | Status | 3 oz/a | | A | | | | | | |
| 11 | Roundup PowerMax | 32 oz/a | | A | | | | | | |
| 11 | Atrazine | 16 oz/a | | A | | | | | | |
| 11 | N PAK AMS | 1.5 qt/a | | A | | | | | | |
| 12 | Armezon Pro | 24 oz/a | | A | 83 bc | 100 a | 93 b | 100 a | 100 a | 87 b |
| 12 | Atrazine | 16 oz/a | | A | | | | | | |
| 12 | MSO | 0.6 qt/a | | A | | | | | | |
| 12 | N PAK AMS | 1.5 qt/a | | A | | | | | | |
| LSD P=.05 | | | | | 16.2 | . | 5.6 | 1.4 | 5.4 | 8.5 |
| Standard Deviation | | | | | 9.6 | 0.0 | 3.3 | 0.8 | 3.2 | 5.0 |
| CV | | | | | 11.55 | 0.0 | 3.66 | 0.91 | 3.49 | 5.64 |
| Bartlett's X2 | | | | | 7.593 | 0.0 | 0.0 | 3.744 | 8.832 | 17.298 |
| P(Bartlett's X2) | | | | | 0.474 | . | . | 0.053 | 0.003* | 0.002* |
| Skewness | | | | | -2.3071* | -3.1478* | -3.0784* | -3.1428* | -3.0783* | -2.9191* |
| Kurtosis | | | | | 4.9034* | 8.3714* | 8.0491* | 8.3507* | 8.0493* | 7.3502* |
| Replicate F | | | | | 0.636 | 0.000 | 1.000 | 1.435 | 0.943 | 2.438 |
| Replicate Prob(F) | | | | | 0.5387 | 1.0000 | 0.3840 | 0.2596 | 0.4046 | 0.1106 |
| Treatment F | | | | | 24.680 | 0.000 | 223.273 | 3574.913 | 245.311 | 95.618 |
| Treatment Prob(F) | | | | | 0.0001 | 1.0000 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,10,11,15,20,21,27,32,37,38,42,43 because error mean square = 0.

The Ohio State University

Diflexx Duo MPOST Efficacy and Tolerance

Trial ID: 17DIFLEXXDUO
Protocol ID: 17DIFLEXXDUO
Project ID: HP17USAWMX

Location: Western Branch F-8 E
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed |
|-------------------------------|-----------------|----------------|---------------|-----------------|---------------|
| Pest Code | POLPY | AMBEL | SETFA | ECHCG | AMBTR |
| Pest Name | annual smartwe> | Common ragweed | Giant foxtail | Common barnyar> | Giant ragweed |
| Crop Code | | | | | |
| Crop Name | | | | | |
| Rating Date | 6-13-2017 | 6-13-2017 | 6-27-2017 | 6-27-2017 | 6-27-2017 |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 14 14 | 14 14 | 28 28 | 28 28 | 28 28 |
| Trt-Eval Interval | 14 DA-A | 14 DA-A | 28 DA-A | 28 DA-A | 28 DA-A |
| Days After Emergence | 34 DE-1 | 34 DE-1 | 48 DE-1 | 48 DE-1 | 48 DE-1 |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Other Rate | Other Rate | Appl Unit Code | 20* | 21* | 22* | 23* | 24* |
|---------|---------------------|------------|------------|----------------|-------|-------|--------|-------|-------|
| 1 | UTC | | | | 0 f | 0 f | 0 g | 0 c | 0 c |
| 2 | DiFlexx Duo | 32 oz/a | | A | 100 a | 100 a | 47 ef | 100 a | 100 a |
| | 2 Roundup PowerMax | 32 oz/a | | A | | | | | |
| | 2 Atrazine | 16 oz/a | | A | | | | | |
| | 2 N PAK AMS | 1.5 qt/a | | A | | | | | |
| 3 | DiFlexx Duo | 32 oz/a | | A | 100 a | 100 a | 65 bcd | 90 ab | 100 a |
| | 3 Atrazine | 16 oz/a | | A | | | | | |
| | 3 MSO | 0.6 qt/a | | A | | | | | |
| | 3 N PAK AMS | 1.5 qt/a | | A | | | | | |
| 4 | DiFlexx Duo | 24 oz/a | | A | 100 e | 100 e | 33 f | 77 b | 100 a |
| | 4 Roundup PowerMax | 32 oz/a | | A | | | | | |
| | 4 Atrazine | 16 oz/a | | A | | | | | |
| | 4 N PAK AMS | 1.5 qt/a | | A | | | | | |
| 5 | DiFlexx Duo | 24 oz/a | | A | 100 d | 100 d | 77 abc | 100 a | 96 a |
| | 5 Liberty | 32 oz/a | | A | | | | | |
| | 5 Atrazine | 16 oz/a | | A | | | | | |
| | 5 N PAK AMS | 1.5 qt/a | | A | | | | | |
| 6 | Capreno | 3 oz/a | | A | 100 | 100 | 60 cde | 88 ab | 100 a |
| | 6 Roundup PowerMax | 32 oz/a | | A | | | | | |
| | 6 Atrazine | 16 oz/a | | A | | | | | |
| | 6 N PAK AMS | 1.5 qt/a | | A | | | | | |
| 7 | Capreno | 3 oz/a | | A | 100 c | 100 c | 85 a | 98 a | 91 ab |
| | 7 Liberty | 32 oz/a | | A | | | | | |
| | 7 Atrazine | 16 oz/a | | A | | | | | |
| | 7 N PAK AMS | 1.5 qt/a | | A | | | | | |
| 8 | Resicore | 2 qt/a | | A | 100 | 100 | 73 abc | 90 ab | 99 a |
| | 8 Liberty | 32 oz/a | | A | | | | | |
| | 8 Atrazine | 16 oz/a | | A | | | | | |
| | 8 N PAK AMS | 1.5 qt/a | | A | | | | | |
| 9 | Halex GT | 57.6 oz/a | | A | 100 | 100 | 78 ab | 100 a | 87 b |
| | 9 Atrazine | 16 oz/a | | A | | | | | |
| | 9 NIS | 4.8 oz/a | | A | | | | | |
| | 9 N PAK AMS | 48 oz/a | | A | | | | | |
| 10 | Armezon Pro | 16 oz/a | | A | 100 | 100 | 50 def | 87 ab | 95 ab |
| | 10 Roundup PowerMax | 32 oz/a | | A | | | | | |
| | 10 Atrazine | 16 oz/a | | A | | | | | |
| | 10 N PAK AMS | 1.5 qt/a | | A | | | | | |

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,10,11,15,20,21,27,32,37,38,42,43 because error mean square = 0.

The Ohio State University

Diflexx Duo MPOST Efficacy and Tolerance

Trial ID: 17DIFLEXXDUO
Protocol ID: 17DIFLEXXDUO
Project ID: HP17USAWMX

Location: Western Branch F-8 E
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

| | | | | | |
|-------------------------------|----------------|----------------|---------------|----------------|---------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed |
| Pest Code | POLPY | AMBEL | SETFA | ECHCG | AMBTR |
| Pest Name | annual smartwe | Common ragweed | Giant foxtail | Common barnyar | Giant ragweed |
| Crop Code | | | | | |
| Crop Name | | | | | |
| Rating Date | 6-13-2017 | 6-13-2017 | 6-27-2017 | 6-27-2017 | 6-27-2017 |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 14 14 | 14 14 | 28 28 | 28 28 | 28 28 |
| Trt-Eval Interval | 14 DA-A | 14 DA-A | 28 DA-A | 28 DA-A | 28 DA-A |
| Days After Emergence | 34 DE-1 | 34 DE-1 | 48 DE-1 | 48 DE-1 | 48 DE-1 |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Other Rate | Other Rate Unit | Appl Code | 20* | 21* | 22* | 23* | 24* |
|--------------------|------------------|------------|-----------------|-----------|----------|----------|----------|----------|----------|
| 11 | Armezon | 0.57 oz/a | | A | 100 a | 100 a | 33 f | 100 a | 100 a |
| 11 | Status | 3 oz/a | | A | | | | | |
| 11 | Roundup PowerMax | 32 oz/a | | A | | | | | |
| 11 | Atrazine | 16 oz/a | | A | | | | | |
| 11 | N PAK AMS | 1.5 qt/a | | A | | | | | |
| 12 | Armezon Pro | 24 oz/a | | A | 100 a | 100 a | 63 b-e | 93 ab | 97 a |
| 12 | Atrazine | 16 oz/a | | A | | | | | |
| 12 | MSO | 0.6 qt/a | | A | | | | | |
| 12 | N PAK AMS | 1.5 qt/a | | A | | | | | |
| LSD P=.05 | | | | | . | . | 17.5 | 21.6 | 8.7 |
| Standard Deviation | | | | | 0.0 | 0.0 | 10.3 | 12.8 | 5.1 |
| CV | | | | | 0.0 | 0.0 | 18.6 | 14.96 | 5.79 |
| Bartlett's X2 | | | | | 0.0 | 0.0 | 11.965 | 9.403 | 7.402 |
| P(Bartlett's X2) | | | | | . | . | 0.215 | 0.152 | 0.192 |
| Skewness | | | | | -3.1478* | -3.1478* | -0.8919* | -2.1766* | -2.9143* |
| Kurtosis | | | | | 8.3714* | 8.3714* | -0.0083 | 3.6792* | 7.3514* |
| Replicate F | | | | | 0.000 | 0.000 | 0.373 | 8.449 | 1.268 |
| Replicate Prob(F) | | | | | 1.0000 | 1.0000 | 0.6932 | 0.0019 | 0.3013 |
| Treatment F | | | | | 0.000 | 0.000 | 16.686 | 14.246 | 90.878 |
| Treatment Prob(F) | | | | | 1.0000 | 1.0000 | 0.0001 | 0.0001 | 0.0001 |

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,10,11,15,20,21,27,32,37,38,42,43 because error mean square = 0.

The Ohio State University

Diflexx Duo MPOST Efficacy and Tolerance

Trial ID: 17DIFLEXXDUO
Protocol ID: 17DIFLEXXDUO
Project ID: HP17USAWMX

Location: Western Branch F-8 E
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | W Weed |
|-------------------------------|-----------------|------------|---------------|-----------------|-----------------|--------------|
| Pest Code | CHEAL | ABUTH | HIBTR | AMARE | IPOHE | SIDSP |
| Pest Name | common lambsqu> | velvetleaf | Venice mallow | Redroot pigweed | ivy-leaf morni> | Prickly sida |
| Crop Code | | | | | | |
| Crop Name | | | | | | |
| Rating Date | 6-27-2017 | 6-27-2017 | 6-27-2017 | 6-27-2017 | 6-27-2017 | 6-27-2017 |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 28 28 | 28 28 | 28 28 | 28 28 | 28 28 | 28 28 |
| Trt-Eval Interval | 28 DA-A | 28 DA-A | 28 DA-A | 28 DA-A | 28 DA-A | 28 DA-A |
| Days After Emergence | 48 DE-1 | 48 DE-1 | 48 DE-1 | 48 DE-1 | 48 DE-1 | 48 DE-1 |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Other Rate | Other Rate | Appl Unit Code | 25* | 26* | 27* | 28* | 29* | 30* | |
|---------|---------------------|------------|------------|----------------|-------|-------|-------|-------|-------|-------|-----|
| 1 | UTC | | | | | 0 c | 0 c | 0 f | 0 c | 0 e | 0 c |
| 2 | Diflexx Duo | 32 oz/a | | A | 100 a | 100 a | 100 a | 100 a | 97 a | 100 a | |
| | 2 Roundup PowerMax | 32 oz/a | | A | | | | | | | |
| | 2 Atrazine | 16 oz/a | | A | | | | | | | |
| | 2 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 3 | Diflexx Duo | 32 oz/a | | A | 100 a | 100 a | 100 a | 100 a | 80 cd | 95 ab | |
| | 3 Atrazine | 16 oz/a | | A | | | | | | | |
| | 3 MSO | 0.6 qt/a | | A | | | | | | | |
| | 3 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 4 | Diflexx Duo | 24 oz/a | | A | 100 a | 100 a | 100 e | 100 a | 100 a | 100 a | |
| | 4 Roundup PowerMax | 32 oz/a | | A | | | | | | | |
| | 4 Atrazine | 16 oz/a | | A | | | | | | | |
| | 4 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 5 | Diflexx Duo | 24 oz/a | | A | 100 a | 99 ab | 100 d | 100 a | 82 c | 88 b | |
| | 5 Liberty | 32 oz/a | | A | | | | | | | |
| | 5 Atrazine | 16 oz/a | | A | | | | | | | |
| | 5 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 6 | Capreno | 3 oz/a | | A | 100 a | 100 a | 100 | 100 a | 83 c | 100 a | |
| | 6 Roundup PowerMax | 32 oz/a | | A | | | | | | | |
| | 6 Atrazine | 16 oz/a | | A | | | | | | | |
| | 6 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 7 | Capreno | 3 oz/a | | A | 97 ab | 100 a | 100 c | 92 b | 80 cd | 97 a | |
| | 7 Liberty | 32 oz/a | | A | | | | | | | |
| | 7 Atrazine | 16 oz/a | | A | | | | | | | |
| | 7 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 8 | Resicore | 2 qt/a | | A | 100 a | 100 a | 100 | 96 ab | 82 c | 95 ab | |
| | 8 Liberty | 32 oz/a | | A | | | | | | | |
| | 8 Atrazine | 16 oz/a | | A | | | | | | | |
| | 8 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 9 | Halex GT | 57.6 oz/a | | A | 100 a | 100 a | 100 | 100 a | 75 d | 100 a | |
| | 9 Atrazine | 16 oz/a | | A | | | | | | | |
| | 9 NIS | 4.8 oz/a | | A | | | | | | | |
| | 9 N PAK AMS | 48 oz/a | | A | | | | | | | |
| 10 | Armezon Pro | 16 oz/a | | A | 100 a | 98 b | 100 | 95 ab | 83 c | 96 a | |
| | 10 Roundup PowerMax | 32 oz/a | | A | | | | | | | |
| | 10 Atrazine | 16 oz/a | | A | | | | | | | |
| | 10 N PAK AMS | 1.5 qt/a | | A | | | | | | | |

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,10,11,15,20,21,27,32,37,38,42,43 because error mean square = 0.

The Ohio State University

Diflexx Duo MPOST Efficacy and Tolerance

Trial ID: 17DIFLEXXDUO
Protocol ID: 17DIFLEXXDUO
Project ID: HP17USAWMX

Location: Western Branch F-8 E
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | W Weed | | | |
|-------------------------------|--|------------|----------------|-----------------|-----------------|--------------|----------|----------|---------|
| Pest Code | CHEAL | ABUTH | HIBTR | AMARE | IPOHE | SIDSP | | | |
| Pest Name | common lambsqu> velvetleaf Venice mallow | | | Redroot pigweed | ivy-leaf morni> | Prickly sida | | | |
| Crop Code | 6-27-2017 | | 6-27-2017 | 6-27-2017 | 6-27-2017 | 6-27-2017 | | | |
| Crop Name | CONTRO | | CONTRO | CONTRO | CONTRO | CONTRO | | | |
| Rating Date | % | | % | % | % | % | | | |
| Rating Type | 1 | | 1 | 1 | 1 | 1 | | | |
| Rating Unit | 28 28 | | 28 28 | 28 28 | 28 28 | 28 28 | | | |
| Number of Subsamples | 28 DA-A | | 28 DA-A | 28 DA-A | 28 DA-A | 28 DA-A | | | |
| Days After First/Last Applic. | 48 DE-1 | | 48 DE-1 | 48 DE-1 | 48 DE-1 | 48 DE-1 | | | |
| Trt-Eval Interval | 0 | | 0 | 0 | 0 | 0 | | | |
| Days After Emergence | 0 | | 0 | 0 | 0 | 0 | | | |
| Number of Decimals | 25* | | 26* | 27* | 28* | 29* | | | |
| Trt Treatment No. Name | Other Rate | Other Rate | Appl Unit Code | 25* | 26* | 27* | 28* | 29* | 30* |
| 11 Armezon | 0.57 oz/a | | A | 100 a | 100 a | 100 a | 100 a | 90 b | 100 a |
| 11 Status | 3 oz/a | | A | | | | | | |
| 11 Roundup PowerMax | 32 oz/a | | A | | | | | | |
| 11 Atrazine | 16 oz/a | | A | | | | | | |
| 11 N PAK AMS | 1.5 qt/a | | A | | | | | | |
| 12 Armezon Pro | 24 oz/a | | A | 96 b | 99 ab | 100 a | 90 b | 83 c | 93 ab |
| 12 Atrazine | 16 oz/a | | A | | | | | | |
| 12 MSO | 0.6 qt/a | | A | | | | | | |
| 12 N PAK AMS | 1.5 qt/a | | A | | | | | | |
| LSD P=.05 | | 3.9 | 1.6 | | | . | 8.3 | 5.7 | 6.8 |
| Standard Deviation | | 2.3 | 1.0 | | | 0.0 | 4.9 | 3.4 | 4.0 |
| CV | | 2.56 | 1.04 | | | 0.0 | 5.47 | 4.33 | 4.56 |
| Bartlett's X2 | | 0.015 | 2.319 | | | 0.0 | 1.582 | 2.472 | 5.575 |
| P(Bartlett's X2) | | 0.903 | 0.314 | | | . | 0.664 | 0.872 | 0.35 |
| Skewness | | -3.1109* | -3.1411* | | | -3.1478* | -2.9674* | -2.6205* | -2.954* |
| Kurtosis | | 8.2128* | 8.3436* | | | 8.3714* | 7.579* | 6.4469* | 7.5451* |
| Replicate F | | 0.328 | 1.134 | | | 0.000 | 0.024 | 2.200 | 5.992 |
| Replicate Prob(F) | | 0.7236 | 0.3399 | | | 1.0000 | 0.9759 | 0.1346 | 0.0084 |
| Treatment F | | 456.737 | 2740.443 | | | 0.000 | 101.076 | 172.550 | 145.420 |
| Treatment Prob(F) | | 0.0001 | 0.0001 | | | 1.0000 | 0.0001 | 0.0001 | 0.0001 |

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,10,11,15,20,21,27,32,37,38,42,43 because error mean square = 0.

The Ohio State University

Diflexx Duo MPOST Efficacy and Tolerance

Trial ID: 17DIFLEXXDUO
Protocol ID: 17DIFLEXXDUO
Project ID: HP17USAWMX

Location: Western Branch F-8 E
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

| | | | | | |
|-------------------------------|-----------------|----------------|---------------|----------------------|-----------|
| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed |
| Pest Code | POLPY | AMBEL | SETFA | ECHCG | AMBTR |
| Pest Name | annual smartwe> | Common ragweed | Giant foxtail | Common Giant ragweed | barnyar> |
| Crop Code | | | | | |
| Crop Name | | | | | |
| Rating Date | 6-27-2017 | 6-27-2017 | 7-11-2017 | 7-11-2017 | 7-11-2017 |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 28 28 | 28 28 | 42 42 | 42 42 | 42 42 |
| Trt-Eval Interval | 28 DA-A | 28 DA-A | 42 DA-A | 42 DA-A | 42 DA-A |
| Days After Emergence | 48 DE-1 | 48 DE-1 | 62 DE-1 | 62 DE-1 | 62 DE-1 |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Other Rate | Other Rate | Appl Unit Code | 31* | 32* | 33* | 34* | 35* |
|---------|---------------------|------------|------------|----------------|-------|-------|-------|--------|--------|
| 1 | UTC | | | | 0 c | 0 f | 0 h | 0 h | 0 c |
| 2 | Diflexx Duo | 32 oz/a | | A | 100 a | 100 a | 27 fg | 27 fg | 100 a |
| | 2 Roundup PowerMax | 32 oz/a | | A | | | | | |
| | 2 Atrazine | 16 oz/a | | A | | | | | |
| | 2 N PAK AMS | 1.5 qt/a | | A | | | | | |
| 3 | Diflexx Duo | 32 oz/a | | A | 100 a | 100 a | 53 de | 53 de | 100 a |
| | 3 Atrazine | 16 oz/a | | A | | | | | |
| | 3 MSO | 0.6 qt/a | | A | | | | | |
| | 3 N PAK AMS | 1.5 qt/a | | A | | | | | |
| 4 | Diflexx Duo | 24 oz/a | | A | 100 a | 100 e | 23 g | 20 g | 100 a |
| | 4 Roundup PowerMax | 32 oz/a | | A | | | | | |
| | 4 Atrazine | 16 oz/a | | A | | | | | |
| | 4 N PAK AMS | 1.5 qt/a | | A | | | | | |
| 5 | Diflexx Duo | 24 oz/a | | A | 100 a | 100 d | 82 ab | 80 abc | 97 b |
| | 5 Liberty | 32 oz/a | | A | | | | | |
| | 5 Atrazine | 16 oz/a | | A | | | | | |
| | 5 N PAK AMS | 1.5 qt/a | | A | | | | | |
| 6 | Capreno | 3 oz/a | | A | 100 a | 100 | 72 bc | 70 cd | 100 a |
| | 6 Roundup PowerMax | 32 oz/a | | A | | | | | |
| | 6 Atrazine | 16 oz/a | | A | | | | | |
| | 6 N PAK AMS | 1.5 qt/a | | A | | | | | |
| 7 | Capreno | 3 oz/a | | A | 100 a | 100 c | 91 a | 91 ab | 100 ab |
| | 7 Liberty | 32 oz/a | | A | | | | | |
| | 7 Atrazine | 16 oz/a | | A | | | | | |
| | 7 N PAK AMS | 1.5 qt/a | | A | | | | | |
| 8 | Resicore | 2 qt/a | | A | 100 a | 100 | 77 bc | 77 bc | 100 a |
| | 8 Liberty | 32 oz/a | | A | | | | | |
| | 8 Atrazine | 16 oz/a | | A | | | | | |
| | 8 N PAK AMS | 1.5 qt/a | | A | | | | | |
| 9 | Halex GT | 57.6 oz/a | | A | 100 a | 100 | 91 a | 96 a | 99 ab |
| | 9 Atrazine | 16 oz/a | | A | | | | | |
| | 9 NIS | 4.8 oz/a | | A | | | | | |
| | 9 N PAK AMS | 48 oz/a | | A | | | | | |
| 10 | Armezon Pro | 16 oz/a | | A | 100 a | 100 | 40 ef | 40 ef | 98 ab |
| | 10 Roundup PowerMax | 32 oz/a | | A | | | | | |
| | 10 Atrazine | 16 oz/a | | A | | | | | |
| | 10 N PAK AMS | 1.5 qt/a | | A | | | | | |

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,10,11,15,20,21,27,32,37,38,42,43 because error mean square = 0.

The Ohio State University

Diflexx Duo MPOST Efficacy and Tolerance

Trial ID: 17DIFLEXXDUO
Protocol ID: 17DIFLEXXDUO
Project ID: HP17USAWMX

Location: Western Branch F-8 E
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

| | | | | | |
|-------------------------------|-----------------|----------------|---------------|----------------------|-----------|
| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed |
| Pest Code | POLPY | AMBEL | SETFA | ECHCG | AMBTR |
| Pest Name | annual smartwe> | Common ragweed | Giant foxtail | Common Giant ragweed | barnyar> |
| Crop Code | | | | | |
| Crop Name | | | | | |
| Rating Date | 6-27-2017 | 6-27-2017 | 7-11-2017 | 7-11-2017 | 7-11-2017 |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 28 28 | 28 28 | 42 42 | 42 42 | 42 42 |
| Trt-Eval Interval | 28 DA-A | 28 DA-A | 42 DA-A | 42 DA-A | 42 DA-A |
| Days After Emergence | 48 DE-1 | 48 DE-1 | 62 DE-1 | 62 DE-1 | 62 DE-1 |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Other Rate | Other Rate Unit | Appl Code | 31* | 32* | 33* | 34* | 35* |
|--------------------|------------------|------------|-----------------|-----------|----------|----------|---------|---------|----------|
| 11 | Armezon | 0.57 oz/a | A | A | 100 a | 100 a | 23 g | 23 fg | 100 a |
| 11 | Status | 3 oz/a | A | A | | | | | |
| 11 | Roundup PowerMax | 32 oz/a | A | A | | | | | |
| 11 | Atrazine | 16 oz/a | A | A | | | | | |
| 11 | N PAK AMS | 1.5 qt/a | A | A | | | | | |
| 12 | Armezon Pro | 24 oz/a | A | A | 97 b | 100 a | 63 cd | 63 cd | 100 a |
| 12 | Atrazine | 16 oz/a | A | A | | | | | |
| 12 | MSO | 0.6 qt/a | A | A | | | | | |
| 12 | N PAK AMS | 1.5 qt/a | A | A | | | | | |
| LSD P=.05 | | | | | 2.8 | . | 13.8 | 17.2 | 3.2 |
| Standard Deviation | | | | | 1.7 | 0.0 | 8.2 | 10.1 | 1.9 |
| CV | | | | | 1.82 | 0.0 | 15.27 | 19.01 | 2.05 |
| Bartlett's X2 | | | | | 0.0 | 0.0 | 8.537 | 16.156 | 8.072 |
| P(Bartlett's X2) | | | | | . | . | 0.577 | 0.04* | 0.045* |
| Skewness | | | | | -3.1291* | -3.1478* | -0.2126 | -0.0992 | -3.1234* |
| Kurtosis | | | | | 8.2903* | 8.3714* | -1.193 | -1.2369 | 8.2675* |
| Replicate F | | | | | 1.000 | 0.000 | 3.602 | 2.738 | 1.648 |
| Replicate Prob(F) | | | | | 0.3840 | 1.0000 | 0.0443 | 0.0867 | 0.2152 |
| Treatment F | | | | | 895.546 | 0.000 | 41.502 | 28.117 | 705.551 |
| Treatment Prob(F) | | | | | 0.0001 | 1.0000 | 0.0001 | 0.0001 | 0.0001 |

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,10,11,15,20,21,27,32,37,38,42,43 because error mean square = 0.

The Ohio State University

Diflexx Duo MPOST Efficacy and Tolerance

Trial ID: 17DIFLEXXDUO
Protocol ID: 17DIFLEXXDUO
Project ID: HP17USAWMX

Location: Western Branch F-8 E
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | W Weed |
|-------------------------------|----------------|------------|---------------|-----------------|----------------|--------------|
| Pest Code | CHEAL | ABUTH | HIBTR | AMARE | IPHOE | SIDSP |
| Pest Name | common lambsqu | velvetleaf | Venice mallow | Redroot pigweed | ivy-leaf morni | Prickly sida |
| Crop Code | | | | | | |
| Crop Name | | | | | | |
| Rating Date | 7-11-2017 | 7-11-2017 | 7-11-2017 | 7-11-2017 | 7-11-2017 | 7-11-2017 |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 42 42 | 42 42 | 42 42 | 42 42 | 42 42 | 42 42 |
| Trt-Eval Interval | 42 DA-A | 42 DA-A | 42 DA-A | 42 DA-A | 42 DA-A | 42 DA-A |
| Days After Emergence | 62 DE-1 | 62 DE-1 | 62 DE-1 | 62 DE-1 | 62 DE-1 | 62 DE-1 |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Other Rate | Other Rate | Appl Unit Code | 36* | 37* | 38* | 39* | 40* | 41* | |
|---------|---------------------|------------|------------|----------------|--------|-------|-------|--------|-------|-------|-------|
| 1 | UTC | | | | | 0 c | 0 f | 0 f | 0 c | 0 d | 0 c |
| 2 | Diflexx Duo | 32 oz/a | | A | 100 a | 100 a | 100 a | 100 a | 100 a | 100 a | 100 a |
| | 2 Roundup PowerMax | 32 oz/a | | A | | | | | | | |
| | 2 Atrazine | 16 oz/a | | A | | | | | | | |
| | 2 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 3 | Diflexx Duo | 32 oz/a | | A | 100 a | 100 a | 100 a | 100 a | 100 a | 100 a | 100 a |
| | 3 Atrazine | 16 oz/a | | A | | | | | | | |
| | 3 MSO | 0.6 qt/a | | A | | | | | | | |
| | 3 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 4 | Diflexx Duo | 24 oz/a | | A | 100 a | 100 e | 100 e | 100 a | 100 a | 100 a | 100 a |
| | 4 Roundup PowerMax | 32 oz/a | | A | | | | | | | |
| | 4 Atrazine | 16 oz/a | | A | | | | | | | |
| | 4 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 5 | Diflexx Duo | 24 oz/a | | A | 100 a | 100 d | 100 d | 100 a | 98 ab | 100 a | 100 a |
| | 5 Liberty | 32 oz/a | | A | | | | | | | |
| | 5 Atrazine | 16 oz/a | | A | | | | | | | |
| | 5 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 6 | Capreno | 3 oz/a | | A | 100 a | 100 | 100 | 100 a | 100 a | 100 a | 100 a |
| | 6 Roundup PowerMax | 32 oz/a | | A | | | | | | | |
| | 6 Atrazine | 16 oz/a | | A | | | | | | | |
| | 6 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 7 | Capreno | 3 oz/a | | A | 99 b | 100 c | 100 c | 99 b | 95 c | 100 a | 100 a |
| | 7 Liberty | 32 oz/a | | A | | | | | | | |
| | 7 Atrazine | 16 oz/a | | A | | | | | | | |
| | 7 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 8 | Resicore | 2 qt/a | | A | 100 a | 100 | 100 | 100 a | 96 bc | 70 b | 70 b |
| | 8 Liberty | 32 oz/a | | A | | | | | | | |
| | 8 Atrazine | 16 oz/a | | A | | | | | | | |
| | 8 N PAK AMS | 1.5 qt/a | | A | | | | | | | |
| 9 | Halex GT | 57.6 oz/a | | A | 100 ab | 100 | 100 | 100 ab | 95 c | 100 a | 100 a |
| | 9 Atrazine | 16 oz/a | | A | | | | | | | |
| | 9 NIS | 4.8 oz/a | | A | | | | | | | |
| | 9 N PAK AMS | 48 oz/a | | A | | | | | | | |
| 10 | Armezon Pro | 16 oz/a | | A | 100 a | 100 | 100 | 100 a | 100 a | 100 a | 100 a |
| | 10 Roundup PowerMax | 32 oz/a | | A | | | | | | | |
| | 10 Atrazine | 16 oz/a | | A | | | | | | | |
| | 10 N PAK AMS | 1.5 qt/a | | A | | | | | | | |

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,10,11,15,20,21,27,32,37,38,42,43 because error mean square = 0.

The Ohio State University

Diflexx Duo MPOST Efficacy and Tolerance

Trial ID: 17DIFLEXXDUO
Protocol ID: 17DIFLEXXDUO
Project ID: HP17USAWMX

Location: Western Branch F-8 E
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | W Weed |
|-------------------------------|-----------------|------------|---------------|-----------------|-----------------|--------------|
| Pest Code | CHEAL | ABUTH | HIBTR | AMARE | IPHOE | SIDSP |
| Pest Name | common lambsqu> | velvetleaf | Venice mallow | Redroot pigweed | ivy-leaf morri> | Prickly sida |
| Crop Code | | | | | | |
| Crop Name | | | | | | |
| Rating Date | 7-11-2017 | 7-11-2017 | 7-11-2017 | 7-11-2017 | 7-11-2017 | 7-11-2017 |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 42 42 | 42 42 | 42 42 | 42 42 | 42 42 | 42 42 |
| Trt-Eval Interval | 42 DA-A | 42 DA-A | 42 DA-A | 42 DA-A | 42 DA-A | 42 DA-A |
| Days After Emergence | 62 DE-1 | 62 DE-1 | 62 DE-1 | 62 DE-1 | 62 DE-1 | 62 DE-1 |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Other Rate | Other Unit | Appl Code | 36* | 37* | 38* | 39* | 40* | 41* |
|--------------------|------------------|------------|------------|-----------|-----------|----------|----------|-----------|---------|----------|
| 11 | Armezon | 0.57 oz/a | | A | 100 a | 100 a | 100 a | 100 a | 100 a | 100 a |
| 11 | Status | 3 oz/a | | A | | | | | | |
| 11 | Roundup PowerMax | 32 oz/a | | A | | | | | | |
| 11 | Atrazine | 16 oz/a | | A | | | | | | |
| 11 | N PAK AMS | 1.5 qt/a | | A | | | | | | |
| 12 | Armezon Pro | 24 oz/a | | A | 100 a | 100 a | 100 a | 100 a | 95 c | 100 a |
| 12 | Atrazine | 16 oz/a | | A | | | | | | |
| 12 | MSO | 0.6 qt/a | | A | | | | | | |
| 12 | N PAK AMS | 1.5 qt/a | | A | | | | | | |
| LSD P=.05 | | | | | 0.4 | . | . | 0.4 | 2.9 | 25.4 |
| Standard Deviation | | | | | 0.2 | 0.0 | 0.0 | 0.2 | 1.7 | 15.0 |
| CV | | | | | 0.27 | 0.0 | 0.0 | 0.25 | 1.9 | 16.84 |
| Bartlett's X2 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 6.073 | 14.916 |
| P(Bartlett's X2) | | | | | . | . | . | . | 0.108 | 0.001* |
| Skewness | | | | | -3.1473* | -3.1478* | -3.1478* | -3.1473* | -3.099* | -2.5943* |
| Kurtosis | | | | | 8.3692* | 8.3714* | 8.3714* | 8.3692* | 8.1714* | 5.0292* |
| Replicate F | | | | | 0.000 | 0.000 | 0.000 | 1.571 | 2.314 | 0.988 |
| Replicate Prob(F) | | | | | 1.0000 | 1.0000 | 1.0000 | 0.2302 | 0.1225 | 0.3883 |
| Treatment F | | | | | 41177.129 | 0.000 | 0.000 | 47059.576 | 826.569 | 11.483 |
| Treatment Prob(F) | | | | | 0.0001 | 1.0000 | 1.0000 | 0.0001 | 0.0001 | 0.0001 |

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,10,11,15,20,21,27,32,37,38,42,43 because error mean square = 0.

The Ohio State University

Diflexx Duo MPOST Efficacy and Tolerance

Trial ID: 17DIFLEXXDUO
Protocol ID: 17DIFLEXXDUO
Project ID: HP17USAWMX

Location: Western Branch F-8 E
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

| | | |
|-------------------------------|----------------|------------------|
| Pest Type | W Weed | W Weed |
| Pest Code | POLPY | AMBEL |
| Pest Name | annual smartwe | > Common ragweed |
| Crop Code | | |
| Crop Name | | |
| Rating Date | 7-11-2017 | 7-11-2017 |
| Rating Type | CONTRO | CONTRO |
| Rating Unit | % | % |
| Number of Subsamples | 1 | 1 |
| Days After First/Last Applic. | 42 42 | 42 42 |
| Trt-Eval Interval | 42 DA-A | 42 DA-A |
| Days After Emergence | 62 DE-1 | 62 DE-1 |
| Number of Decimals | 0 | 0 |

| Trt No. | Treatment Name | Other Rate | Other Rate | Appl Unit Code | 42* | 43* |
|---------|---------------------|------------|------------|----------------|-------|-------|
| 1 | UTC | | | | 0 f | 0 f |
| 2 | DiFlexx Duo | 32 oz/a | | A | 100 a | 100 a |
| | 2 Roundup PowerMax | 32 oz/a | | A | | |
| | 2 Atrazine | 16 oz/a | | A | | |
| | 2 N PAK AMS | 1.5 qt/a | | A | | |
| 3 | DiFlexx Duo | 32 oz/a | | A | 100 a | 100 a |
| | 3 Atrazine | 16 oz/a | | A | | |
| | 3 MSO | 0.6 qt/a | | A | | |
| | 3 N PAK AMS | 1.5 qt/a | | A | | |
| 4 | DiFlexx Duo | 24 oz/a | | A | 100 e | 100 e |
| | 4 Roundup PowerMax | 32 oz/a | | A | | |
| | 4 Atrazine | 16 oz/a | | A | | |
| | 4 N PAK AMS | 1.5 qt/a | | A | | |
| 5 | DiFlexx Duo | 24 oz/a | | A | 100 d | 100 d |
| | 5 Liberty | 32 oz/a | | A | | |
| | 5 Atrazine | 16 oz/a | | A | | |
| | 5 N PAK AMS | 1.5 qt/a | | A | | |
| 6 | Capreno | 3 oz/a | | A | 100 | 100 |
| | 6 Roundup PowerMax | 32 oz/a | | A | | |
| | 6 Atrazine | 16 oz/a | | A | | |
| | 6 N PAK AMS | 1.5 qt/a | | A | | |
| 7 | Capreno | 3 oz/a | | A | 100 c | 100 c |
| | 7 Liberty | 32 oz/a | | A | | |
| | 7 Atrazine | 16 oz/a | | A | | |
| | 7 N PAK AMS | 1.5 qt/a | | A | | |
| 8 | Resicore | 2 qt/a | | A | 100 | 100 |
| | 8 Liberty | 32 oz/a | | A | | |
| | 8 Atrazine | 16 oz/a | | A | | |
| | 8 N PAK AMS | 1.5 qt/a | | A | | |
| 9 | Halex GT | 57.6 oz/a | | A | 100 | 100 |
| | 9 Atrazine | 16 oz/a | | A | | |
| | 9 NIS | 4.8 oz/a | | A | | |
| | 9 N PAK AMS | 48 oz/a | | A | | |
| 10 | Armezon Pro | 16 oz/a | | A | 100 | 100 |
| | 10 Roundup PowerMax | 32 oz/a | | A | | |
| | 10 Atrazine | 16 oz/a | | A | | |
| | 10 N PAK AMS | 1.5 qt/a | | A | | |

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,10,11,15,20,21,27,32,37,38,42,43 because error mean square = 0.

The Ohio State University

Diflexx Duo MPOST Efficacy and Tolerance

Trial ID: 17DIFLEXXDUO
Protocol ID: 17DIFLEXXDUO
Project ID: HP17USAWMX

Location: Western Branch F-8 E
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

| | | |
|-------------------------------|----------------|------------------|
| Pest Type | W Weed | W Weed |
| Pest Code | POLPY | AMBEL |
| Pest Name | annual smartwe | > Common ragweed |
| Crop Code | | |
| Crop Name | | |
| Rating Date | 7-11-2017 | 7-11-2017 |
| Rating Type | CONTRO | CONTRO |
| Rating Unit | % | % |
| Number of Subsamples | 1 | 1 |
| Days After First/Last Applic. | 42 42 | 42 42 |
| Trt-Eval Interval | 42 DA-A | 42 DA-A |
| Days After Emergence | 62 DE-1 | 62 DE-1 |
| Number of Decimals | 0 | 0 |

| Trt No. | Treatment Name | Other Rate | Other Rate Unit | Appl Code | 42* | 43* |
|--------------------|------------------|------------|-----------------|-----------|----------|----------|
| 11 | Armezon | 0.57 oz/a | A | | 100 a | 100 a |
| 11 | Status | 3 oz/a | A | | | |
| 11 | Roundup PowerMax | 32 oz/a | A | | | |
| 11 | Atrazine | 16 oz/a | A | | | |
| 11 | N PAK AMS | 1.5 qt/a | A | | | |
| 12 | Armezon Pro | 24 oz/a | A | | 100 a | 100 a |
| 12 | Atrazine | 16 oz/a | A | | | |
| 12 | MSO | 0.6 qt/a | A | | | |
| 12 | N PAK AMS | 1.5 qt/a | A | | | |
| LSD P=.05 | | | | | | |
| Standard Deviation | | | | | 0.0 | 0.0 |
| CV | | | | | 0.0 | 0.0 |
| Bartlett's X2 | | | | | 0.0 | 0.0 |
| P(Bartlett's X2) | | | | | . | . |
| Skewness | | | | | -3.1478* | -3.1478* |
| Kurtosis | | | | | 8.3714* | 8.3714* |
| Replicate F | | | | | 0.000 | 0.000 |
| Replicate Prob(F) | | | | | 1.0000 | 1.0000 |
| Treatment F | | | | | 0.000 | 0.000 |
| Treatment Prob(F) | | | | | 1.0000 | 1.0000 |

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,10,11,15,20,21,27,32,37,38,42,43 because error mean square = 0.

The Ohio State University

Diflexx Duo MPOST Efficacy and Tolerance

Trial ID: 17DIFLEXXDUO Location: Western Branch F-8 E Trial Year: 2017
Protocol ID: 17DIFLEXXDUO Investigator: Dr. Mark M. Loux
Project ID: HP17USAWMX Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, Giant foxtail = US
AMBTR, *Ambrosia trifida*, Giant ragweed = US
CHEAL, *Chenopodium album*, common lambsquarters = US
ABUTH, *Abutilon theophrasti*, velvetleaf = US
HIBTR, *Hibiscus trionum*, Venice mallow = US
AMARE, *Amaranthus retroflexus*, Redroot pigweed = US
IPOHE, *Ipomoea hederacea*, ivy-leaf morning glory = US
SIDSP, *Sida spinosa*, Prickly sida = US
POLPY, *Persicaria pensylvanica*, annual smartweed = US
AMBEL, *Ambrosia artemisiifolia*, Common ragweed = US
ECHCG, *Echinochloa crus-galli*, Common barnyard grass = US

Crop Code

ZEAMX, BCOR, *Zea mays*, Corn = US

Rating Type

PHYNEC = phytotoxicity - necrosis /burn
CONTRO = control / burndown or knockdown

Rating Unit

% = percent