

The Ohio State University

FMC Xtend soybean pre and post programs

Trial ID: 16 FMCCTS Location: Western Branch Trial Year: 2016
 Protocol ID: 16 FMCCTS Investigator: Dr. Mark M. Loux
 Project ID: FMC XTEND Study Director: Bryan Reeb
 Sponsor Contact: Joe Reed, FMC

General Trial Information

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

Latitude of LL Corner °: 39.85718 N
Longitude of LL Corner °: 83.67009 W
Altitude of LL Corner, Unit: 1086.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Bryan Reeb

Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: GLXMA Glycine max
Variety: AG29X6
Description: Asgrow RRX

BBCH Scale: BSOY

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

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

Pest Description

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

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

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

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

Pest 5 Type: W **Code:** HIBTR Hibiscus trionum
Common Name: Venice mallow

Pest 6 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: velvetleaf

Pest 7 Type: W **Code:** ECHCG Echinochloa crus-galli
Common Name: Common barnyard grass

Site and Design

Treated Plot Width: 6.67 FT
Treated Plot Length: 30 FT
Treated Plot Area: 200.1 FT² **Treatments:** 12
Replications: 3

Site Type: RESPLO research plot
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: BIG E
% OM: 2.2 **Texture:** SICL silty clay loam
pH: 6.1 **Soil Name:** KOKOMO SILTY CLAY LOAM
CEC: 14 **Fert. Level:** G good
Soil Drainage: G good

The Ohio State University

FMC Xtend soybean pre and post programs

Trial ID: 16 FMC DTS Location: Western Branch Trial Year: 2016
 Protocol ID: 16 FMC DTS Investigator: Dr. Mark M. Loux
 Project ID: FMC XTEND Study Director: Bryan Reeb
 Sponsor Contact: Joe Reed, FMC

| | Application Description | | |
|--------------------------------|-------------------------|-----------|--------------|
| | A | B | C |
| Application Date: | 5-25-2016 | 6-14-2016 | 6-20-2016 |
| Appl. Start Time: | 3:00 PM | 9:00 AM | 9:00 AM |
| Appl. Stop Time: | 3:15 PM | 9:15 AM | 9:15 AM |
| Interval to Prev. Appl., Unit: | | 20 DAYS | 6 DAYS |
| Application Method: | SPRAY | SPRAY | SPRAY |
| Application Timing: | PRE | EPO 21 | POST 3-4" WD |
| Application Placement: | BROSOL | BROFOL | BROFOL |
| Applied By: | LAMB | REEB | BOLTE |
| Air Temperature, Unit: | 79 F | 74 F | 79 F |
| % Relative Humidity: | 50 | 41 | 72 |
| Wind Velocity, Unit: | 12 MPH | 5 MPH | 10 MPH |
| Wind Direction: | S | ENE | WSW |
| Dew Presence (Y/N): | N no | N no | N no |
| Soil Temperature, Unit: | 66 F | 71 F | 73 F |
| Soil Moisture: | DRY | DRY | DRY |
| % Cloud Cover: | 75 | 20 | 75 |
| Next Moisture Occurred On: | 5-29-2016 | 6-15-2016 | 6-21-2016 |
| Time to Next Moisture, Unit: | 4 D | 1 DAY | 1 DAY |

| | Crop Stage At Each Application | | | | | |
|--------------------------|--------------------------------|------|-------|------|-------|------|
| | A | | B | | C | |
| Crop 1 Code, BBCH Scale: | GLXMA | BSOY | GLXMA | BSOY | GLXMA | BSOY |
| Stage Scale Used: | BBCH | | BBCH | | BBCH | |
| Stage Majority, Percent: | | | 12 | 100 | 12 | 100 |
| Stage Minimum, Percent: | | | | | V3 | 100 |
| Height, Unit: | | | 3 | IN | 6 | IN |
| Height Minimum, Maximum: | | | 2 | 3 | 5 | 6 |

| | Pest Stage At Each Application | | | | | |
|---------------------------|--------------------------------|---|-------|-----|-------|-----|
| | A | | B | | C | |
| Pest 1 Code, Type, Scale: | SETFA | W | SETFA | W | SETFA | W |
| Stage Majority, Percent: | | | 14 | 60 | 12 | 100 |
| Stage Minimum, Percent: | | | 16 | 40 | | |
| Stage Maximum, Percent: | | | 14 | 60 | | |
| Height, Unit: | | | 4 | IN | 3 | IN |
| Height Minimum, Maximum: | | | 2 | 6 | 2 | 4 |
| Density, Unit: | | | | | 40 | m2 |
| Pest 2 Code, Type, Scale: | AMBTR | W | AMBTR | W | AMBTR | W |
| Stage Majority, Percent: | | | 16 | 60 | 16 | 100 |
| Stage Minimum, Percent: | | | 14 | 40 | | |
| Stage Maximum, Percent: | | | 16 | 60 | | |
| Height, Unit: | | | 5 | IN | 6 | IN |
| Height Minimum, Maximum: | | | 4 | 6 | 5 | 8 |
| Density, Unit: | | | | | 8 | m2 |
| Pest 3 Code, Type, Scale: | CHEAL | W | CHEAL | W | CHEAL | W |
| Stage Majority, Percent: | | | 15 | 60 | 18 | 60 |
| Stage Minimum, Percent: | | | 16 | 40 | 16 | 40 |
| Stage Maximum, Percent: | | | 15 | 60 | 18 | 60 |
| Height, Unit: | | | 2 | IN | 2 | IN |
| Height Minimum, Maximum: | | | 1 | 2 | 1 | 3 |
| Density, Unit: | | | | | 4 | m2 |
| Pest 4 Code, Type, Scale: | AMARE | W | AMARE | W | AMARE | W |
| Stage Majority, Percent: | | | 16 | 60 | | |
| Stage Minimum, Percent: | | | 17 | 40 | | |
| Stage Maximum, Percent: | | | 16 | 60 | | |
| Height, Unit: | | | 1 | IN | | |
| Height Minimum, Maximum: | | | 1 | 2 | | |
| Density, Unit: | | | | | 10 | m2 |
| Pest 5 Code, Type, Scale: | HIBTR | W | HIBTR | W | HIBTR | W |
| Stage Majority, Percent: | | | 12 | 100 | | |
| Height, Unit: | | | 1 | IN | | |
| Height Minimum, Maximum: | | | 0.5 | 1.5 | | |
| Density, Unit: | | | | | 1 | m2 |
| Pest 6 Code, Type, Scale: | ABUTH | W | ABUTH | W | ABUTH | W |
| Stage Majority, Percent: | | | | | 13 | 100 |
| Height, Unit: | | | | | 3 | IN |
| Density, Unit: | | | | | 0.5 | m2 |
| Pest 7 Code, Type, Scale: | ECHCG | W | ECHCG | W | ECHCG | W |
| Density, Unit: | | | | | 70 | m2 |

The Ohio State University

FMC Xtend soybean pre and post programs

Trial ID: 16 FMC DTS
 Protocol ID: 16 FMC DTS
 Project ID: FMC XTEND

Location: Western Branch Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Bryan Reeb
 Sponsor Contact: Joe Reed, FMC

Application Equipment

| | A | B | C |
|----------------------------------|--------------|-------------|-------------|
| Appl. Equipment: | 10' BACKPACK | 6' BACKPACK | 6' BACKPACK |
| Equipment Type: | BACCAI | BACCAI | BACCAI |
| Operation Pressure, Unit: | 50 PSI | 44 PSI | 44 PSI |
| Nozzle Type: | AIXR | TTI | TTI |
| Nozzle Size: | 11015 | 11015 | 11015 |
| Nozzle Spacing, Unit: | 18 IN | 18 IN | 18 IN |
| Nozzles/Row: | 6 | 4 | 4 |
| Boom Length, Unit: | 10 FT | 6.67 FT | 6.67 FT |
| Boom Height, Unit: | 20 IN | 20 IN | 20 IN |
| Ground Speed, Unit: | 3 MPH | 3 MPH | 3 MPH |
| Carrier: | WATER | WATER | WATER |
| Spray Volume, Unit: | 15 gal/ac | 15 gal/ac | 15 gal/ac |
| Mix Size, Unit: | 2 liters | 1 liters | 1 liters |
| Propellant: | COMCO2 | COMCO2 | COMCO2 |

| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | W Weed |
|-------------------------------|----------------|------------------|----------------------|-------------------------|----------------------|----------------|
| Pest Code | SETFA | AMBTR | CHEAL | AMARE | ABUTH | SETFA |
| Pest Scientific Name | Setaria faberi | Ambrosia trifida | Chenopodium album | Amaranthus retrofractus | Abutilon theophrasti | Setaria faberi |
| Pest Name | Giant foxtail | Giant ragweed | Common lambsquarters | Redroot pigweed | velvetleaf | Giant foxtail |
| Rating Date | 6-15-2016 | 6-15-2016 | 6-15-2016 | 6-15-2016 | 6-15-2016 | 7-7-2016 |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | 1 |
| SE Group No. | 1 | 2 | 3 | 4 | 5 | 6 |
| Days After First/Last Applic. | 21 1 | 21 1 | 21 1 | 21 1 | 21 1 | 43 17 |
| Plant-Eval Interval | 21 DP-1 | 21 DP-1 | 21 DP-1 | 21 DP-1 | 21 DP-1 | 43 DP-1 |
| Days After Emergence | 14 DE-1 | 14 DE-1 | 14 DE-1 | 14 DE-1 | 14 DE-1 | 36 DE-1 |

| Trt No. | Treatment Name | Other Rate | Other Rate | Appl Unit Code | 1* | 2* | 3* | 4* | 5* | 6* |
|---------|-------------------|------------|------------|----------------|--------|----------|---------|---------|---------|---------|
| 1 | UTC | | | | 0.0 c | 0.0 d | 0.0 c | 0.0 b | 0.0 b | 0.0 d |
| 2 | Authority First | 5 oz/a | | A | 56.7 b | 60.0 a | 95.0 a | 98.3 a | 98.3 a | 100.0 a |
| | Anthem Maxx | 4 oz/a | | C | | | | | | |
| | Roundup Power Max | 32 oz/a | | C | | | | | | |
| | Clarity | 1 pt/a | | C | | | | | | |
| 3 | Rowel | 2 oz/a | | A | 38.3 b | 58.3 ab | 85.0 b | 100.0 a | 96.7 a | 96.7 ab |
| | Warrant | 3 pt/a | | C | | | | | | |
| | Roundup Power Max | 32 oz/a | | C | | | | | | |
| | Clarity | 1 pt/a | | C | | | | | | |
| 4 | Authority Elite | 26 oz/a | | A | 88.3 a | 50.0 abc | 100.0 a | 100.0 a | 93.3 a | 100.0 a |
| | Roundup Power Max | 32 oz/a | | C | | | | | | |
| | Clarity | 1 pt/a | | C | | | | | | |
| 5 | Anthem Maxx | 4 oz/a | | B | 0.0 c | 0.0 d | 0.0 c | 0.0 b | 0.0 b | 95.0 ab |
| | Roundup Power Max | 32 oz/a | | B | | | | | | |
| | Clarity | 1 pt/a | | B | | | | | | |
| 6 | Warrant | 3 pt/a | | B | 0.0 c | 0.0 d | 0.0 c | 0.0 b | 0.0 b | 93.3 b |
| | Roundup Power Max | 32 oz/a | | B | | | | | | |
| | Clarity | 1 pt/a | | B | | | | | | |
| 7 | Rowel | 2 oz/a | | A | 38.3 b | 33.3 c | 96.7 a | 100.0 a | 100.0 a | 98.3 ab |
| | Roundup Power Max | 32 oz/a | | C | | | | | | |
| | Clarity | 1 pt/a | | C | | | | | | |
| 8 | Authority XL | 6.4 oz/a | | A | 53.3 b | 43.3 abc | 98.3 a | 100.0 a | 96.7 a | 99.3 a |
| | Roundup Power Max | 32 oz/a | | C | | | | | | |
| | Clarity | 1 pt/a | | C | | | | | | |
| 9 | Authority XL | 4 oz/a | | A | 43.3 b | 43.3 abc | 93.3 ab | 100.0 a | 96.7 a | 98.3 ab |
| | Roundup Power Max | 32 oz/a | | C | | | | | | |
| | Clarity | 1 pt/a | | C | | | | | | |
| 10 | Authority MTZ | 14 oz/a | | A | 43.3 b | 36.7 c | 93.3 ab | 99.3 a | 96.7 a | 100.0 a |
| | Roundup Power Max | 32 oz/a | | C | | | | | | |
| | Clarity | 1 pt/a | | C | | | | | | |
| 11 | Authority MTZ | 10 oz/a | | A | 46.7 b | 40.0 bc | 96.7 a | 100.0 a | 96.7 a | 100.0 a |
| | Roundup Power Max | 32 oz/a | | C | | | | | | |
| | Clarity | 1 pt/a | | C | | | | | | |

The Ohio State University

FMC Xtend soybean pre and post programs

Trial ID: 16 FMCDTS
 Protocol ID: 16 FMCDTS
 Project ID: FMC XTEND

Location: Western Branch Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Bryan Reeb
 Sponsor Contact: Joe Reed, FMC

| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | | | | |
|-------------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|---------|---------|---------|---------|
| Pest Code | AMBTR | CHEAL | AMARE | ABUTH | ECHCG | | | | |
| Pest Scientific Name | Ambrosia trifi> | Chenopodium al> | Amaranthus ret> | Abutilon theop> | Echinochloa cr> | | | | |
| Pest Name | Giant ragweed | Common lambsqu> | Redroot pigweed | velvetleaf | Common barnyar> | | | | |
| Rating Date | 7-7-2016 | 7-7-2016 | 7-7-2016 | 7-7-2016 | 7-7-2016 | | | | |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | | | | |
| Rating Unit | % | % | % | % | % | | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | | | | |
| SE Group No. | 7 | 8 | 9 | 10 | 11 | | | | |
| Days After First/Last Applic. | 43 17 | 43 17 | 43 17 | 43 17 | 43 17 | | | | |
| Plant-Eval Interval | 43 DP-1 | 43 DP-1 | 43 DP-1 | 43 DP-1 | 43 DP-1 | | | | |
| Days After Emergence | 36 DE-1 | 36 DE-1 | 36 DE-1 | 36 DE-1 | 36 DE-1 | | | | |
| Trt No. | Treatment Name | Other Rate | Other Rate | Appl Unit Code | 7* | 8* | 9* | 10* | 11* |
| 1 | UTC | | | | 0.0 c | 0.0 c | 0.0 c | 0.0 f | 0.0 c |
| 2 | Authority First | 5 oz/a | | A | 100.0 a | 100.0 a | 100.0 a | 100.0 a | 86.7 ab |
| | Anthem Maxx | 4 oz/a | | C | | | | | |
| | Roundup Power Max | 32 oz/a | | C | | | | | |
| | Clarity | 1 pt/a | | C | | | | | |
| 3 | Rowel | 2 oz/a | | A | 100.0 a | 100.0 a | 100.0 a | 100.0 a | 76.7 b |
| | Warrant | 3 pt/a | | C | | | | | |
| | Roundup Power Max | 32 oz/a | | C | | | | | |
| | Clarity | 1 pt/a | | C | | | | | |
| 4 | Authority Elite | 26 oz/a | | A | 98.3 a | 100.0 a | 100.0 a | 100.0 e | 93.3 a |
| | Roundup Power Max | 32 oz/a | | C | | | | | |
| | Clarity | 1 pt/a | | C | | | | | |
| 5 | Anthem Maxx | 4 oz/a | | B | 96.7 a | 96.7 a | 100.0 a | 100.0 d | 88.3 ab |
| | Roundup Power Max | 32 oz/a | | B | | | | | |
| | Clarity | 1 pt/a | | B | | | | | |
| 6 | Warrant | 3 pt/a | | B | 100.0 a | 98.3 a | 100.0 a | 100.0 | 88.3 ab |
| | Roundup Power Max | 32 oz/a | | B | | | | | |
| | Clarity | 1 pt/a | | B | | | | | |
| 7 | Rowel | 2 oz/a | | A | 98.3 a | 100.0 a | 100.0 a | 100.0 c | 86.7 ab |
| | Roundup Power Max | 32 oz/a | | C | | | | | |
| | Clarity | 1 pt/a | | C | | | | | |
| 8 | Authority XL | 6.4 oz/a | | A | 98.7 a | 100.0 a | 100.0 a | 100.0 | 88.3 ab |
| | Roundup Power Max | 32 oz/a | | C | | | | | |
| | Clarity | 1 pt/a | | C | | | | | |
| 9 | Authority XL | 4 oz/a | | A | 100.0 a | 100.0 a | 100.0 a | 100.0 | 90.0 a |
| | Roundup Power Max | 32 oz/a | | C | | | | | |
| | Clarity | 1 pt/a | | C | | | | | |
| 10 | Authority MTZ | 14 oz/a | | A | 100.0 a | 100.0 a | 100.0 a | 100.0 | 88.3 ab |
| | Roundup Power Max | 32 oz/a | | C | | | | | |
| | Clarity | 1 pt/a | | C | | | | | |
| 11 | Authority MTZ | 10 oz/a | | A | 97.7 a | 100.0 a | 100.0 a | 100.0 a | 95.0 a |
| | Roundup Power Max | 32 oz/a | | C | | | | | |
| | Clarity | 1 pt/a | | C | | | | | |

The Ohio State University

FMC Xtend soybean pre and post programs

Trial ID: 16 FMC DTS Location: Western Branch Trial Year: 2016
 Protocol ID: 16 FMC DTS Investigator: Dr. Mark M. Loux
 Project ID: FMC XTEND Study Director: Bryan Reeb
 Sponsor Contact: Joe Reed, FMC

| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | | | |
|-------------------------------|------------------|----------------------|-------------------------|----------------------|-----------------------|----------|----------|----------|
| Pest Code | AMBTR | CHEAL | AMARE | ABUTH | ECHCG | | | |
| Pest Scientific Name | Ambrosia trifida | Chenopodium album | Amaranthus retrofractus | Abutilon theophrasti | Echinochloa crusgalli | | | |
| Pest Name | Giant ragweed | Common lambsquarters | Redroot pigweed | velvetleaf | Common barnyardgrass | | | |
| Rating Date | 7-7-2016 | 7-7-2016 | 7-7-2016 | 7-7-2016 | 7-7-2016 | | | |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | | | |
| Rating Unit | % | % | % | % | % | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | | | |
| SE Group No. | 7 | 8 | 9 | 10 | 11 | | | |
| Days After First/Last Applic. | 43 17 | 43 17 | 43 17 | 43 17 | 43 17 | | | |
| Plant-Eval Interval | 43 DP-1 | 43 DP-1 | 43 DP-1 | 43 DP-1 | 43 DP-1 | | | |
| Days After Emergence | 36 DE-1 | 36 DE-1 | 36 DE-1 | 36 DE-1 | 36 DE-1 | | | |
| Trt Treatment No. | Other Rate | Other Rate | Appl Unit Code | 7* | 8* | 9* | 10* | 11* |
| 12 Authority MTZ | 13 oz/a | | A | 68.3 b | 91.7 b | 96.7 b | 100.0 a | 76.7 b |
| Command 3ME | 21 oz/a | | A | | | | | |
| Flexstar | 16 oz/a | | C | | | | | |
| Crop Oil Concentrat | 0.6 qt/a | | C | | | | | |
| N-pak ams | 3 qt/a | | C | | | | | |
| LSD P=.05 | | | | 5.92 | 4.01 | 2.82 | . | 12.63 |
| Standard Deviation | | | | 3.50 | 2.37 | 1.67 | 0.00 | 7.46 |
| CV | | | | 3.96 | 2.62 | 1.82 | 0.0 | 9.34 |
| Bartlett's X2 | | | | 10.661 | 2.603 | 0.0 | 0.0 | 13.445 |
| P(Bartlett's X2) | | | | 0.059 | 0.272 | . | . | 0.097 |
| Skewness | | | | -2.6949* | -3.0796* | -3.1291* | -3.1478* | -2.6228* |
| Kurtosis | | | | 6.1875* | 8.0763* | 8.2903* | 8.3714* | 6.1433* |
| Replicate F | | | | 0.539 | 2.348 | 1.000 | 0.000 | 1.586 |
| Replicate Prob(F) | | | | 0.5910 | 0.1190 | 0.3840 | 1.0000 | 0.2273 |
| Treatment F | | | | 208.598 | 437.483 | 895.546 | 0.000 | 35.754 |
| Treatment Prob(F) | | | | 0.0001 | 0.0001 | 0.0001 | 1.0000 | 0.0001 |

The Ohio State University

FMC Xtend soybean pre and post programs

Trial ID: 16 FMC DTS Location: Western Branch Trial Year: 2016
 Protocol ID: 16 FMC DTS Investigator: Dr. Mark M. Loux
 Project ID: FMC XTEND Study Director: Bryan Reeb
 Sponsor Contact: Joe Reed, FMC

| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | | | | |
|-------------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|---------|---------|---------|---------|
| Pest Code | SETFA | AMBTR | CHEAL | AMARE | ABUTH | | | | |
| Pest Scientific Name | Setaria faberi | Ambrosia trifid | Chenopodium al- | Amaranthus ret- | Abutilon theop- | | | | |
| Pest Name | Giant foxtail | Giant ragweed | Common lambsqu- | Redroot pigweed | velvetleaf | | | | |
| Rating Date | 7-19-2016 | 7-19-2016 | 7-19-2016 | 7-19-2016 | 7-19-2016 | | | | |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | | | | |
| Rating Unit | % | % | % | % | % | | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | | | | |
| SE Group No. | 12 | 13 | 14 | 15 | 16 | | | | |
| Days After First/Last Applic. | 55 29 | 55 29 | 55 29 | 55 29 | 55 29 | | | | |
| Plant-Eval Interval | 55 DP-1 | 55 DP-1 | 55 DP-1 | 55 DP-1 | 55 DP-1 | | | | |
| Days After Emergence | 48 DE-1 | 48 DE-1 | 48 DE-1 | 48 DE-1 | 48 DE-1 | | | | |
| Trt No. | Treatment Name | Other Rate | Other Rate | Appl Unit Code | 12* | 13* | 14* | 15* | 16* |
| 1 | UTC | | | | 0.0 c | 0.0 c | 0.0 c | 0.0 f | 0.0 f |
| 2 | Authority First | 5 oz/a | | A | 99.3 a | 100.0 a | 100.0 a | 100.0 a | 100.0 a |
| | Anthem Maxx | 4 oz/a | | C | | | | | |
| | Roundup Power Max | 32 oz/a | | C | | | | | |
| | Clarity | 1 pt/a | | C | | | | | |
| 3 | Rowel | 2 oz/a | | A | 99.3 a | 100.0 a | 100.0 a | 100.0 a | 100.0 a |
| | Warrant | 3 pt/a | | C | | | | | |
| | Roundup Power Max | 32 oz/a | | C | | | | | |
| | Clarity | 1 pt/a | | C | | | | | |
| 4 | Authority Elite | 26 oz/a | | A | 100.0 a | 100.0 a | 100.0 a | 100.0 e | 100.0 e |
| | Roundup Power Max | 32 oz/a | | C | | | | | |
| | Clarity | 1 pt/a | | C | | | | | |
| 5 | Anthem Maxx | 4 oz/a | | B | 99.3 a | 98.3 a | 100.0 a | 100.0 d | 100.0 d |
| | Roundup Power Max | 32 oz/a | | B | | | | | |
| | Clarity | 1 pt/a | | B | | | | | |
| 6 | Warrant | 3 pt/a | | B | 97.7 a | 100.0 a | 100.0 a | 100.0 | 100.0 |
| | Roundup Power Max | 32 oz/a | | B | | | | | |
| | Clarity | 1 pt/a | | B | | | | | |
| 7 | Rowel | 2 oz/a | | A | 99.3 a | 100.0 a | 100.0 a | 100.0 c | 100.0 c |
| | Roundup Power Max | 32 oz/a | | C | | | | | |
| | Clarity | 1 pt/a | | C | | | | | |
| 8 | Authority XL | 6.4 oz/a | | A | 99.3 a | 100.0 a | 100.0 a | 100.0 | 100.0 |
| | Roundup Power Max | 32 oz/a | | C | | | | | |
| | Clarity | 1 pt/a | | C | | | | | |
| 9 | Authority XL | 4 oz/a | | A | 100.0 a | 100.0 a | 100.0 a | 100.0 | 100.0 |
| | Roundup Power Max | 32 oz/a | | C | | | | | |
| | Clarity | 1 pt/a | | C | | | | | |
| 10 | Authority MTZ | 14 oz/a | | A | 100.0 a | 100.0 a | 100.0 a | 100.0 | 100.0 |
| | Roundup Power Max | 32 oz/a | | C | | | | | |
| | Clarity | 1 pt/a | | C | | | | | |
| 11 | Authority MTZ | 10 oz/a | | A | 100.0 a | 100.0 a | 100.0 a | 100.0 a | 100.0 a |
| | Roundup Power Max | 32 oz/a | | C | | | | | |
| | Clarity | 1 pt/a | | C | | | | | |

The Ohio State University

FMC Xtend soybean pre and post programs

Trial ID: 16 FMC DTS Location: Western Branch Trial Year: 2016
 Protocol ID: 16 FMC DTS Investigator: Dr. Mark M. Loux
 Project ID: FMC XTEND Study Director: Bryan Reeb
 Sponsor Contact: Joe Reed, FMC

| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | | | |
|-------------------------------|----------------|-----------------|-----------------|-----------------|-----------------|----------|----------|----------|
| Pest Code | SETFA | AMBTR | CHEAL | AMARE | ABUTH | | | |
| Pest Scientific Name | Setaria faberi | Ambrosia trifi> | Chenopodium al> | Amaranthus ret> | Abutilon theop> | | | |
| Pest Name | Giant foxtail | Giant ragweed | Common lambsqu> | Redroot pigweed | velvetleaf | | | |
| Rating Date | 7-19-2016 | 7-19-2016 | 7-19-2016 | 7-19-2016 | 7-19-2016 | | | |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | | | |
| Rating Unit | % | % | % | % | % | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | | | |
| SE Group No. | 12 | 13 | 14 | 15 | 16 | | | |
| Days After First/Last Applic. | 55 29 | 55 29 | 55 29 | 55 29 | 55 29 | | | |
| Plant-Eval Interval | 55 DP-1 | 55 DP-1 | 55 DP-1 | 55 DP-1 | 55 DP-1 | | | |
| Days After Emergence | 48 DE-1 | 48 DE-1 | 48 DE-1 | 48 DE-1 | 48 DE-1 | | | |
| Trt Treatment | Other Rate | Other Rate | Appl Unit Code | 12* | 13* | 14* | 15* | 16* |
| 12 Authority MTZ | 13 oz/a | | A | 88.3 b | 75.0 b | 95.0 b | 100.0 a | 100.0 a |
| Command 3ME | 21 oz/a | | A | | | | | |
| Flexstar | 16 oz/a | | C | | | | | |
| Crop Oil Concentrat | 0.6 qt/a | | C | | | | | |
| N-pak ams | 3 qt/a | | C | | | | | |
| LSD P=.05 | | | | 3.99 | 4.40 | 4.23 | . | . |
| Standard Deviation | | | | 2.36 | 2.60 | 2.50 | 0.00 | 0.00 |
| CV | | | | 2.61 | 2.91 | 2.74 | 0.0 | 0.0 |
| Bartlett's X2 | | | | 16.252 | 2.002 | 0.0 | 0.0 | 0.0 |
| P(Bartlett's X2) | | | | 0.012* | 0.157 | . | . | . |
| Skewness | | | | -3.0552* | -2.8382* | -3.1072* | -3.1478* | -3.1478* |
| Kurtosis | | | | 7.9582* | 6.9071* | 8.1889* | 8.3714* | 8.3714* |
| Replicate F | | | | 1.834 | 1.336 | 1.000 | 0.000 | 0.000 |
| Replicate Prob(F) | | | | 0.1833 | 0.2833 | 0.3840 | 1.0000 | 1.0000 |
| Treatment F | | | | 441.447 | 375.103 | 397.364 | 0.000 | 0.000 |
| Treatment Prob(F) | | | | 0.0001 | 0.0001 | 0.0001 | 1.0000 | 1.0000 |

The Ohio State University

FMC Xtend soybean pre and post programs

Trial ID: 16 FMC DTS Location: Western Branch Trial Year: 2016
 Protocol ID: 16 FMC DTS Investigator: Dr. Mark M. Loux
 Project ID: FMC XTEND Study Director: Bryan Reeb
 Sponsor Contact: Joe Reed, FMC

| | | | | | |
|-------------------------------|---------------------|------------|------------|----------------|-----------------|
| Pest Type | | | | W | Weed |
| Pest Code | | | | | ECHCG |
| Pest Scientific Name | | | | | Echinochloa cr> |
| Pest Name | | | | | Common barnyar> |
| Rating Date | | | | | 7-19-2016 |
| Rating Type | | | | | CONTRO |
| Rating Unit | | | | | % |
| Number of Subsamples | | | | 1 | 1 |
| SE Group No. | | | | | 17 18 |
| Days After First/Last Applic. | | | | 55 | 29 |
| Plant-Eval Interval | | | | 55 | DP-1 |
| Days After Emergence | | | | 48 | DE-1 |
| Trt No. | Treatment Name | Other Rate | Other Rate | Appl Unit Code | |
| | | | | | 17* 18 |
| | 12 Authority MTZ | 13 oz/a | | A | 85.0 c |
| | Command 3ME | 21 oz/a | | A | |
| | Flexstar | 16 oz/a | | C | |
| | Crop Oil Concentrat | 0.6 qt/a | | C | |
| | N-pak ams | 3 qt/a | | C | |
| LSD P=.05 | | | | | 3.84 . |
| Standard Deviation | | | | | 2.27 . |
| CV | | | | | 2.57 . |
| Bartlett's X2 | | | | | 9.865 . |
| P(Bartlett's X2) | | | | | 0.275 . |
| Skewness | | | | | -2.9825* . |
| Kurtosis | | | | | 7.6685* . |
| Replicate F | | | | | 0.005 |
| Replicate Prob(F) | | | | | 0.9946 |
| Treatment F | | | | | 464.549 |
| Treatment Prob(F) | | | | | 0.0001 |

The Ohio State University

FMC Xtend soybean pre and post programs

Trial ID: 16 FMC DTS Location: Western Branch Trial Year: 2016
Protocol ID: 16 FMC DTS Investigator: Dr. Mark M. Loux
Project ID: FMC XTEND Study Director: Bryan Reeb
Sponsor Contact: Joe Reed, FMC

Pest Type

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

Pest Code

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

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

21 DP-1 = 1 GLXMA 5-25-2016
43 DP-1 = 1 GLXMA 5-25-2016
55 DP-1 = 1 GLXMA 5-25-2016