

The Ohio State University

UPL FALL CORN

Trial ID: 21FALLCORN2 Location: Western Branch F-9 West Trial Year: 2021
 Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

General Trial Information

Investigator: Dr. Mark M. Loux

Discipline: H herbicide
 Trial Status: E established

ARM Trial Created On: May-25-2021
 Initiation Date: Oct-28-2020

Trial Location

City: South Charleston Country: USA United States
 State/Prov.: Ohio
 Postal Code: 45368

Latitude of LL Corner °: 39.85871 N
 Longitude of LL Corner °: -83.6708 W
 Altitude of LL Corner: 1083.00 FT

Conducted Under GLP: No
 Conducted Under GEP: No
 Role: INVEST investigator
 Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: C ZEAMX Zea mays Corn
 Entry Date: May-17-2021 Stage Scale: BBCH
 Variety: Pioneer P1197
 Attributes: Glyphosate-R, Glufosinate-R
 Planting Date: May-26-2021 Planting Rate: 32097 S/A
 Depth: 2 IN
 Rows per Plot: 4 Planting Method: PLANTD planted
 Row Spacing: 30 IN Planting Equipment: FPP finger pickup planter
 Seed Bed: MEDIUM medium
 Soil Temperature: 68 F Soil Moisture: NORMAL normal, adequate
 Emergence Date: Jun-9-2021
 Harvest Date: Oct-11-2021 Harvest Equipment: Kincaid 8XP
 Moisture Meter: Harvest Master Harvested Width: 5 FT
 % Standard Moisture: 15.5 Harvested Length: 30 FT
 Weighing Equipment: Harvest Master HM800

Pest Description

Pest 1 Type: W Code: ERICA Erigeron canadensis Entry Date: Nov-6-2020
 Common Name: Canada horseweed Stage Scale: BBCH
 Attributes: GLY-R
 Pest 2 Type: W Code: AMBTR Ambrosia trifida Entry Date: Nov-6-2020
 Common Name: Giant ragweed Stage Scale: BBCH
 Attributes: GLY-R
 Pest 3 Type: W Code: SETFA Setaria faberi Entry Date: Jun-14-2021
 Common Name: Giant foxtail Stage Scale: BBCH
 Pest 4 Type: W Code: AMARE Amaranthus retroflexus Entry Date: Jun-14-2021
 Common Name: Redroot pigweed Stage Scale: BBCH

Site and Design

Treated Plot Width: 6.67 FT Site Type: FIELD field
 Treated Plot Length: 30 FT Experimental Unit: 1 PLOT plot
 Treated Plot Area: 200.1 FT² Treatments: 6 Tillage Type: NOTILL no-till
 Replications: 3 Study Design: RACOB� Randomized Complete Block (RCB)

Previous

No. Crop Year
 1. SOYBEAN 2020

Soil Description

Description Name: F-9 East
 % Sand: 36 % OM: 3 Texture: SICL silty clay loam
 % Silt: 49 pH: 6.4 Soil Name: Kokomo
 % Clay: 15 CEC: 17.8 Fert. Level: G good
 Soil Drainage: G good

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Application Description

| | A | B | C |
|---------------------------------|-------------|-------------|-------------|
| Application Date | May-27-2021 | Jun-11-2021 | Jun-23-2021 |
| Appl. Start Time | 8:00 AM | 1:25 PM | 9:00 AM |
| Appl. Stop Time | 8:30 AM | 1:30 PM | 9:20 AM |
| Application Method | SPRAY | SPRAY | SPRAY |
| Application Timing | PREPRE | EPO | POST |
| Application Placement | BROFOL | BROFOL | BROFOL |
| Applied By | Dobbels | Dobbels | Dobbels |
| Appl. Entry Date | Jun-2-2021 | Jun-14-2021 | Jun-24-2021 |
| Air Temperature Start, Stop | 66 66 F | 81 81 F | 64 64 F |
| % Relative Humidity Start, Stop | 80 80 | 70 70 | 55 55 |
| Wind Velocity+Dir. Start | 6 MPH ENE | 6 MPH N | 8 MPH SW |
| Wind Velocity+Dir. Stop | 6 MPH ENE | 6 MPH N | 8 MPH SW |
| Wind Velocity+Dir. Max | 7 MPH ENE | 6 MPH N | 8 MPH SW |
| Wet Leaves (Y/N) | Y yes | N no | Y yes |
| Soil Temperature | 64 F | 78 F | 79 F |
| Soil Moisture | WET | SLIWET | DRY |
| Soil Surface Condition | MEDIUM | MEDIUM | MEDIUM |
| % Cloud Cover | 5 | 60 | 20 |
| Next Moisture Occurred On | May-28-2021 | Jun-18-2021 | Jun-29-2021 |
| Time to Next Moisture | 1.0 DAY | 6.0 DAY | 6.0 DAY |
| Moisture 6 Hours after Appl. | 0 IN | 0 IN | 0 IN |
| Moisture 1 Week after Appl. | 0.76 IN | 0.35 IN | 1.45 IN |

Crop Stage At Each Application

| | A | | B | | C | |
|-------------------------|-------|------|-------|------|-------|------|
| Crop 1 Code, BBCH Scale | ZEAMX | BCOR | ZEAMX | BCOR | ZEAMX | BCOR |
| Days after Emergence | -13 | | 2 | | 14 | |
| Stage Majority, Percent | 00 | 100 | 13 | 100 | 16 | 100 |
| Height Average | | | 7 | IN | 17 | IN |
| Height Minimum, Maximum | | | 6 | 7 | 17 | 18 |

Pest Stage At Each Application

| | A | | B | | C | |
|---------------------------|-------|--------|-------|--------|-------|--------|
| Pest 1 Code, Type, Scale | ERICA | W BBCH | ERICA | W BBCH | ERICA | W BBCH |
| Stage Majority, Percent | 19 | 100 | | | | |
| Diameter Average | 2 | IN | | | | |
| Diameter Minimum, Maximum | 2 | 3 | | | | |
| Height Average | 3 | IN | | | | |
| Height Minimum, Maximum | 2 | 3 | | | | |
| Density Average | 1 | PLA/m2 | | | | |
| Density Minimum, Maximum | 0 | 3 | | | | |
| Pest 2 Code, Type, Scale | AMBTR | W BBCH | AMBTR | W BBCH | AMBTR | W BBCH |
| Stage Majority, Percent | 14 | 100 | 18 | 80 | 18 | 100 |
| Stage Minimum, Percent | | | 14 | 10 | | |
| Stage Maximum, Percent | | | 18 | 60 | | |
| Height Average | 3 | IN | 5 | IN | 8 | IN |
| Height Minimum, Maximum | 2 | 3 | 3 | 6 | 4 | 10 |
| Density Average | 6 | PLA/m2 | | | 3 | PLA/m2 |
| Density Minimum, Maximum | 3 | 9 | | | 1 | 6 |
| Pest 3 Code, Type, Scale | SETFA | W BBCH | SETFA | W BBCH | SETFA | W BBCH |
| Stage Majority, Percent | | | 13 | 100 | 15 | 80 |
| Stage Minimum, Percent | | | | | 13 | 10 |
| Stage Maximum, Percent | | | | | 16 | 10 |
| Height Average | | | 3 | IN | 6 | IN |
| Height Minimum, Maximum | | | 1 | 5 | 5 | 8 |
| Density Average | | | 235 | PLA/m2 | 125 | PLA/m2 |
| Density Minimum, Maximum | | | 125 | 324 | 98 | 234 |
| Pest 4 Code, Type, Scale | AMARE | W BBCH | AMARE | W BBCH | AMARE | W BBCH |
| Stage Majority, Percent | | | 14 | 100 | 14 | 80 |
| Stage Minimum, Percent | | | | | 14 | 80 |
| Stage Maximum, Percent | | | | | 16 | 20 |
| Height Average | | | 1 | IN | 3 | IN |
| Height Minimum, Maximum | | | 1 | 3 | 1 | 3 |
| Density Average | | | 6 | PLA/m2 | 8 | PLA/m2 |
| Density Minimum, Maximum | | | 1 | 10 | 3 | 19 |

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Application Equipment

| | A | B | C |
|-----------------------------------|-----------|-----------|-----------|
| Appl. Equipment | 6' AIXR | 6' AIXR | 6' AIXR |
| Equipment Type | BACCAI | BACCAI | BACCAI |
| Operation Pressure | 44 PSI | 44 PSI | 44 PSI |
| Nozzle Model | 110015 | 110015 | 110015 |
| Nozzle Type | AIXR | AI XR | AI XR |
| Nozzle TradeName | | TeeJet | TeeJet |
| Nozzle Tip Size, Color | | 015 green | 015 green |
| Nozzle Spacing | 18 IN | 18 IN | 18 IN |
| Boom Length | 6.67 FT | 6.67 FT | 6.67 FT |
| Boom Height | 20 IN | 20 IN | 20 IN |
| Ground Speed | 3 MPH | 3 MPH | 3 MPH |
| Carrier | WATER | WATER | WATER |
| Water Hardness (ppm CaCO3) | | 250 | 250 |
| Application Amount | 15 GAL/AC | 15 GAL/AC | 15 GAL/AC |
| Mix Coverage | | 25 mL | 25 mL |
| Mix Size | 1 L | 2 L | 2 L |
| Spray pH | | 7.8 | 7.8 |
| Propellant | COMCO2 | COMCO2 | COMCO2 |
| Tank Mix (Y/N) | | Y yes | Y yes |

Notes

| | |
|---|--------------|
| Context | Notes |
| STATUS Oct-28-2020 Dr. Mark M. Loux Automatically added by ARM: Trial Status updated to 'S' during trial creation. | |
| STATUS Nov-6-2020 Dr. Mark M. Loux Automatically added by ARM: Trial Status updated to 'E' when Application Date entered. | |

| | | | |
|-----------|---------------|----------------------|---------------------------|
| Pest Type | W Weed | W Weed | W Weed |
| Pest Code | SETFA | AMBTR | CHEAL |
| Pest Name | Giant foxtail | Giant ragweed common | lambsqua> Redroot pigweed |

| | | | | | |
|-------------------------------|-------------|-------------|-------------|-------------|-------------|
| Crop Type, Code | C ZEAMX | | | | |
| Crop Name | Corn | | | | |
| Rating Date | Jun-21-2021 | Jun-21-2021 | Jun-21-2021 | Jun-21-2021 | Jun-21-2021 |
| Rating Type | PHYNEC | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit/Min/Max | % 0 % | 0 100 | % 0 | % 0 100 | % 0 100 |
| | 100 | | 100 | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Data Entry Date | Jun-21-2021 | Jun-21-2021 | Jun-21-2021 | Jun-21-2021 | Jun-21-2021 |
| Days After First/Last Applic. | 25 10 | 25 10 | 25 10 | 25 10 | 25 10 |
| Trt-Eval Interval | 10 DA-B | 10 DA-B | 10 DA-B | 10 DA-B | 10 DA-B |
| Days After Emergence | 12 DE-1 | 12 DE-1 | 12 DE-1 | 12 DE-1 | 12 DE-1 |
| ARM Action Codes | AA | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Other Rate | Other Rate | Appl Unit Code | 1* dAA | 2* | 3* | 4* | 5* |
|---------|------------------|------------|------------|----------------|--------|-------|-------|-------|-------|
| 1 | UTC | | | | 0 b | 0 c | 0 c | 0 - | 0 c |
| 2 | Roundup Powermax | 32 oz/a | | | 1 b | 100 a | 100 a | 100 - | 100 a |
| | 2,4-D Ester | 16 oz/a | | | | | | | |
| | N Pak AMS | 2.5 % v/v | | | | | | | |
| | Roundup Powermax | 32 oz/a | | A | | | | | |
| | Preview | 19.7 oz/a | | A | | | | | |
| | N Pak AMS | 2.5 % v/v | | A | | | | | |
| | Intermoc | 64 oz/a | | B | | | | | |
| | N Pak AMS | 2.5 % v/v | | B | | | | | |
| | Interline | 32 oz/a | | C | | | | | |
| | N Pak AMS | 2.5 % v/v | | C | | | | | |
| 3 | Roundup Powermax | 32 oz/a | | | 0 b | 68 b | 53 b | 100 - | 57 ab |
| | 2,4-D Ester | 16 oz/a | | | | | | | |
| | N Pak AMS | 2.5 % v/v | | | | | | | |
| | Intermoc | 64 oz/a | | A | | | | | |
| | N Pak AMS | 2.5 % v/v | | A | | | | | |
| | Interline | 32 oz/a | | C | | | | | |
| | N Pak AMS | 2.5 % v/v | | C | | | | | |

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| | | | | |
|-----------|---------------|---------------|-----------------|-----------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed |
| Pest Code | SETFA | AMBTR | CHEAL | AMARE |
| Pest Name | Giant foxtail | Giant ragweed | common lambsqua | Redroot pigweed |

| | | | | | |
|-------------------------------|-------------|-------------|-------------|-------------|-------------|
| Crop Type, Code | C ZEAMX | | | | |
| Crop Name | Corn | | | | |
| Rating Date | Jun-21-2021 | Jun-21-2021 | Jun-21-2021 | Jun-21-2021 | Jun-21-2021 |
| Rating Type | PHYNEC | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit/Min/Max | % 0 % | 0 100 | % 0 | % 0 100 | % 0 100 |
| | 100 | | 100 | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Data Entry Date | Jun-21-2021 | Jun-21-2021 | Jun-21-2021 | Jun-21-2021 | Jun-21-2021 |
| Days After First/Last Applic. | 25 10 | 25 10 | 25 10 | 25 10 | 25 10 |
| Trt-Eval Interval | 10 DA-B | 10 DA-B | 10 DA-B | 10 DA-B | 10 DA-B |
| Days After Emergence | 12 DE-1 | 12 DE-1 | 12 DE-1 | 12 DE-1 | 12 DE-1 |
| ARM Action Codes | AA | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Other Rate | Other Rate | Appl Unit Code | 1* dAA | 2* | 3* | 4* | 5* |
|---------|--------------------|------------|------------|----------------|-----------|--------|---------|--------|---------|
| 4 | Roundup Powermax | 32 oz/a | | | 0 b | 78 ab | 68 b | 100 - | 74 a |
| | 2,4-D Ester | 16 oz/a | | | | | | | |
| | N Pak AMS | 2.5 % v/v | | | | | | | |
| | Intermoc | 64 oz/a | | A | | | | | |
| | Resolve | 1 oz/a | | A | | | | | |
| | N Pak AMS | 2.5 % v/v | | A | | | | | |
| | Interline | 32 oz/a | | C | | | | | |
| | N Pak AMS | 2.5 % v/v | | C | | | | | |
| 5 | Roundup Powermax | 32 oz/a | | | 0 b | 83 ab | 63 b | 100 - | 30 bc |
| | 2,4-D Ester | 16 oz/a | | | | | | | |
| | N Pak AMS | 2.5 % v/v | | | | | | | |
| | Intermoc | 64 oz/a | | A | | | | | |
| | N Pak AMS | 2.5 % v/v | | A | | | | | |
| | Interline | 32 oz/a | | C | | | | | |
| | Resolve | 1 oz/a | | C | | | | | |
| | N Pak AMS | 2.5 % v/v | | C | | | | | |
| 6 | Roundup Powermax | 32 oz/a | | | 13 a | 98 a | 100 a | 100 - | 100 a |
| | 2,4-D Ester | 16 oz/a | | | | | | | |
| | N Pak AMS | 2.5 % v/v | | | | | | | |
| | Interline | 32 oz/a | | B | | | | | |
| | Resolve | 1 oz/a | | B | | | | | |
| | N Pak AMS | 2.5 % v/v | | B | | | | | |
| | LSD P=.05 | | | | 2.4 - 5.9 | 18.1 | 20.6 | . | 32.8 |
| | Standard Deviation | | | | 3.1t | 10.0 | 11.3 | 0.0 | 18.0 |
| | CV | | | | 72.88t | 13.96 | 17.64 | 0.0 | 29.94 |
| | Levene's F^ | | | | 0.539 | 0.818 | 1.092 | . | 1.415 |
| | Levene's Prob(F) | | | | 0.744 | 0.559 | 0.413 | . | 0.287 |
| | Skewness^ | | | | 1.1566* | 0.1019 | -0.5116 | . | -0.3209 |
| | Kurtosis^ | | | | 3.2994* | 1.5203 | 2.6006* | . | 1.0795 |
| | Replicate F | | | | 1.386 | 0.011 | 0.034 | 0.000 | 0.207 |
| | Replicate Prob(F) | | | | 0.2942 | 0.9894 | 0.9663 | 1.0000 | 0.8164 |
| | Treatment F | | | | 22.521 | 41.385 | 32.018 | 0.000 | 14.637 |
| | Treatment Prob(F) | | | | 0.0001 | 0.0001 | 0.0001 | 1.0000 | 0.0003 |

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| Pest Type | | W Weed | W Weed | W Weed | W Weed | | |
|-------------------------------|-------------|---------------|---------------|------------------|-----------------|-------|-------|
| Pest Code | | SETFA | AMBTR | CHEAL | AMARE | | |
| Pest Name | | Giant foxtail | Giant ragweed | common lambsqua> | Redroot pigweed | | |
| Crop Type, Code | C ZEAMX | | | | | | |
| Crop Name | Corn | | | | | | |
| Rating Date | Jul-6-2021 | Jul-6-2021 | Jul-6-2021 | Jul-6-2021 | Jul-6-2021 | | |
| Rating Type | PHYGEN | CONTRO | CONTRO | CONTRO | CONTRO | | |
| Rating Unit/Min/Max | % 0 100 % | 0 100 | % 0 | % 0 100 | % 0 100 | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | | |
| Data Entry Date | Jul-6-2021 | Jul-6-2021 | Jul-6-2021 | Jul-6-2021 | Jul-6-2021 | | |
| Days After First/Last Applic. | 40 13 | 40 13 | 40 13 | 40 13 | 40 13 | | |
| Trt-Eval Interval | 13 DA-C | 13 DA-C | 13 DA-C | 13 DA-C | 13 DA-C | | |
| Days After Emergence | 27 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 | | |
| ARM Action Codes | | AL | | AS | AL | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | | |
| Trt Treatment | Other Other | Appl | 6* | 7* | 8* | 9* | 10* |
| No. Name | Rate Rate | Unit Code | dAL | dAL | dAS | dAS | dAL |
| 1 UTC | | | 0 - | 0 b | 0 b | 0 b | 0 b |
| 2 Roundup Powermax | 32 oz/a | | 0 - | 98 a | 98 a | 100 a | 100 a |
| 2,4-D Ester | 16 oz/a | | | | | | |
| N Pak AMS | 2.5 % v/v | | | | | | |
| Roundup Powermax | 32 oz/a | A | | | | | |
| Preview | 19.7 oz/a | A | | | | | |
| N Pak AMS | 2.5 % v/v | A | | | | | |
| Intermoc | 64 oz/a | B | | | | | |
| N Pak AMS | 2.5 % v/v | B | | | | | |
| Interline | 32 oz/a | C | | | | | |
| N Pak AMS | 2.5 % v/v | C | | | | | |
| 3 Roundup Powermax | 32 oz/a | | 0 - | 97 a | 100 a | 100 a | 100 a |
| 2,4-D Ester | 16 oz/a | | | | | | |
| N Pak AMS | 2.5 % v/v | | | | | | |
| Intermoc | 64 oz/a | A | | | | | |
| N Pak AMS | 2.5 % v/v | A | | | | | |
| Interline | 32 oz/a | C | | | | | |
| N Pak AMS | 2.5 % v/v | C | | | | | |

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| | | | | | |
|-------------------------------|------------|---------------|---------------|------------------|-----------------|
| Pest Type | | W Weed | W Weed | W Weed | W Weed |
| Pest Code | | SETFA | AMBTR | CHEAL | AMARE |
| Pest Name | | Giant foxtail | Giant ragweed | common lambsqua> | Redroot pigweed |
| Crop Type, Code | C ZEAMX | | | | |
| Crop Name | Corn | | | | |
| Rating Date | Jul-6-2021 | Jul-6-2021 | Jul-6-2021 | Jul-6-2021 | Jul-6-2021 |
| Rating Type | PHYGEN | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit/Min/Max | % 0 100 % | 0 100 | % 0 100 | % 0 100 | % 0 100 |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Data Entry Date | Jul-6-2021 | Jul-6-2021 | Jul-6-2021 | Jul-6-2021 | Jul-6-2021 |
| Days After First/Last Applic. | 40 13 | 40 13 | 40 13 | 40 13 | 40 13 |
| Trt-Eval Interval | 13 DA-C | 13 DA-C | 13 DA-C | 13 DA-C | 13 DA-C |
| Days After Emergence | 27 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 | 27 DE-1 |
| ARM Action Codes | | AL | | AS | AL |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Other Rate | Other Rate | Appl Unit Code | 6* | 7* dAL | 8* | 9* dAS | 10* dAL |
|--------------------|------------------|------------|------------|----------------|--------|---------------|---------|-----------|--------------|
| 4 | Roundup Powermax | 32 oz/a | | | 0 - | 100 a | 93 a | 100 a | 216 a |
| | 2,4-D Ester | 16 oz/a | | | | | | | |
| | N Pak AMS | 2.5 % v/v | | | | | | | |
| | Intermoc | 64 oz/a | | A | | | | | |
| | Resolve | 1 oz/a | | A | | | | | |
| | N Pak AMS | 2.5 % v/v | | A | | | | | |
| | Interline | 32 oz/a | | C | | | | | |
| | N Pak AMS | 2.5 % v/v | | C | | | | | |
| 5 | Roundup Powermax | 32 oz/a | | | 0 - | 100 a | 95 a | 93 a | 98 a |
| | 2,4-D Ester | 16 oz/a | | | | | | | |
| | N Pak AMS | 2.5 % v/v | | | | | | | |
| | Intermoc | 64 oz/a | | A | | | | | |
| | N Pak AMS | 2.5 % v/v | | A | | | | | |
| | Interline | 32 oz/a | | C | | | | | |
| | Resolve | 1 oz/a | | C | | | | | |
| | N Pak AMS | 2.5 % v/v | | C | | | | | |
| 6 | Roundup Powermax | 32 oz/a | | | 0 - | 191 a | 95 a | 100 a | 56 a |
| | 2,4-D Ester | 16 oz/a | | | | | | | |
| | N Pak AMS | 2.5 % v/v | | | | | | | |
| | Interline | 32 oz/a | | B | | | | | |
| | Resolve | 1 oz/a | | B | | | | | |
| | N Pak AMS | 2.5 % v/v | | B | | | | | |
| LSD P=.05 | | | | | . | 119.3 - 160.5 | 12.9 | 8.8 - 8.9 | 98.7 - 137.1 |
| Standard Deviation | | | | | 0.0 | 0.2t | 7.1 | 0.2t | 0.2t |
| CV | | | | | 0.0 | 13.56t | 8.86 | 2.95t | 14.18t |
| Levene's F^ | | | | | . | 0.535 | 0.402 | 0.533 | 0.545 |
| Levene's Prob(F) | | | | | . | 0.747 | 0.838 | 0.747 | 0.739 |
| Skewness^ | | | | | . | 1.3766* | -0.7645 | -1.3829* | 1.3627* |
| Kurtosis^ | | | | | . | 4.8373* | -0.2937 | 4.8663* | 4.7742* |
| Replicate F | | | | | 0.000 | 0.841 | 0.769 | 1.000 | 0.842 |
| Replicate Prob(F) | | | | | 1.0000 | 0.4597 | 0.4889 | 0.4019 | 0.4591 |
| Treatment F | | | | | 0.000 | 39.884 | 92.137 | 695.384 | 37.593 |
| Treatment Prob(F) | | | | | 1.0000 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

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 Sponsor Contact:

| Pest Type | | W Weed | W Weed | W Weed | W Weed | | |
|-------------------------------|-------------|---------------|---------------|------------------|-----------------|-------|-------|
| Pest Code | | SETFA | AMBTR | CHEAL | AMARE | | |
| Pest Name | | Giant foxtail | Giant ragweed | common lambsqua> | Redroot pigweed | | |
| Crop Type, Code | C ZEAMX | | | | | | |
| Crop Name | Corn | | | | | | |
| Rating Date | Jul-12-2021 | Jul-12-2021 | Jul-12-2021 | Jul-12-2021 | Jul-12-2021 | | |
| Rating Type | PHYGEN | CONTRO | CONTRO | CONTRO | CONTRO | | |
| Rating Unit/Min/Max | % 0 | % 0 | % 0 | % 0 100 | % 0 100 | | |
| | 100 | 100 | 100 | | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | | |
| Data Entry Date | Jul-13-2021 | Jul-13-2021 | Jul-13-2021 | Jul-13-2021 | Jul-13-2021 | | |
| Days After First/Last Applic. | 46 19 | 46 19 | 46 19 | 46 19 | 46 19 | | |
| Trt-Eval Interval | 19 DA-C | 19 DA-C | 19 DA-C | 19 DA-C | 19 DA-C | | |
| Days After Emergence | 33 DE-1 | 33 DE-1 | 33 DE-1 | 33 DE-1 | 33 DE-1 | | |
| ARM Action Codes | | | | AS | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | | |
| Trt Treatment | Other Other | Appl | 11* | 12* | 13* | 14* | 15* |
| No. Name | Rate Rate | Unit Code | | | | dAS | |
| 1 UTC | | | 0 - | 0 c | 0 b | 0 b | 0 c |
| 2 Roundup Powermax | 32 oz/a | | 0 - | 98 a | 100 a | 100 a | 100 a |
| 2,4-D Ester | 16 oz/a | | | | | | |
| N Pak AMS | 2.5 % v/v | | | | | | |
| Roundup Powermax | 32 oz/a | A | | | | | |
| Preview | 19.7 oz/a | A | | | | | |
| N Pak AMS | 2.5 % v/v | A | | | | | |
| Intermoc | 64 oz/a | B | | | | | |
| N Pak AMS | 2.5 % v/v | B | | | | | |
| Interline | 32 oz/a | C | | | | | |
| N Pak AMS | 2.5 % v/v | C | | | | | |
| 3 Roundup Powermax | 32 oz/a | | 0 - | 95 a | 100 a | 94 a | 100 a |
| 2,4-D Ester | 16 oz/a | | | | | | |
| N Pak AMS | 2.5 % v/v | | | | | | |
| Intermoc | 64 oz/a | A | | | | | |
| N Pak AMS | 2.5 % v/v | A | | | | | |
| Interline | 32 oz/a | C | | | | | |
| N Pak AMS | 2.5 % v/v | C | | | | | |

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UPL FALL CORN

Trial ID: 21FALLCORN2 Location: Western Branch F-9 West Trial Year: 2021
 Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

| | | | | | |
|-------------------------------|-------------|---------------|---------------|------------------|-----------------|
| Pest Type | | W Weed | W Weed | W Weed | W Weed |
| Pest Code | | SETFA | AMBTR | CHEAL | AMARE |
| Pest Name | | Giant foxtail | Giant ragweed | common lambsqua> | Redroot pigweed |
| Crop Type, Code | C ZEAMX | | | | |
| Crop Name | Corn | | | | |
| Rating Date | Jul-12-2021 | Jul-12-2021 | Jul-12-2021 | Jul-12-2021 | Jul-12-2021 |
| Rating Type | PHYGEN | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit/Min/Max | % 0 100 | % 0 100 | % 0 100 | % 0 100 | % 0 100 |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Data Entry Date | Jul-13-2021 | Jul-13-2021 | Jul-13-2021 | Jul-13-2021 | Jul-13-2021 |
| Days After First/Last Applic. | 46 19 | 46 19 | 46 19 | 46 19 | 46 19 |
| Trt-Eval Interval | 19 DA-C | 19 DA-C | 19 DA-C | 19 DA-C | 19 DA-C |
| Days After Emergence | 33 DE-1 | 33 DE-1 | 33 DE-1 | 33 DE-1 | 33 DE-1 |
| ARM Action Codes | | | | AS | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Other Rate | Other Rate | Appl Unit Code | 11* | 12* | 13* | 14* dAS | 15* |
|--------------------|------------------|------------|------------|----------------|--------|---------|----------|-----------|---------|
| 4 | Roundup Powermax | 32 oz/a | | | 0 - | 100 a | 100 a | 100 a | 100 a |
| | 2,4-D Ester | 16 oz/a | | | | | | | |
| | N Pak AMS | 2.5 % v/v | | | | | | | |
| | Intermoc | 64 oz/a | | A | | | | | |
| | Resolve | 1 oz/a | | A | | | | | |
| | N Pak AMS | 2.5 % v/v | | A | | | | | |
| | Interline | 32 oz/a | | C | | | | | |
| | N Pak AMS | 2.5 % v/v | | C | | | | | |
| 5 | Roundup Powermax | 32 oz/a | | | 0 - | 98 a | 98 a | 100 a | 100 a |
| | 2,4-D Ester | 16 oz/a | | | | | | | |
| | N Pak AMS | 2.5 % v/v | | | | | | | |
| | Intermoc | 64 oz/a | | A | | | | | |
| | N Pak AMS | 2.5 % v/v | | A | | | | | |
| | Interline | 32 oz/a | | C | | | | | |
| | Resolve | 1 oz/a | | C | | | | | |
| | N Pak AMS | 2.5 % v/v | | C | | | | | |
| 6 | Roundup Powermax | 32 oz/a | | | 0 - | 87 b | 93 a | 100 a | 73 b |
| | 2,4-D Ester | 16 oz/a | | | | | | | |
| | N Pak AMS | 2.5 % v/v | | | | | | | |
| | Interline | 32 oz/a | | B | | | | | |
| | Resolve | 1 oz/a | | B | | | | | |
| | N Pak AMS | 2.5 % v/v | | B | | | | | |
| LSD P=.05 | | | | | . | 8.1 | 9.0 | 7.5 - 7.5 | 4.2 |
| Standard Deviation | | | | | 0.0 | 4.5 | 5.0 | 0.2t | 2.3 |
| CV | | | | | 0.0 | 5.62 | 6.07 | 2.48t | 2.96 |
| Levene's F^ | | | | | . | 0.328 | 0.651 | 0.533 | 0.60 |
| Levene's Prob(F) | | | | | . | 0.886 | 0.666 | 0.747 | 0.701 |
| Skewness^ | | | | | . | -0.0911 | -1.3075* | -1.3829* | 1.3514* |
| Kurtosis^ | | | | | . | -0.5306 | 4.1029* | 4.8663* | 4.6341* |
| Replicate F | | | | | 0.000 | 2.408 | 0.730 | 1.000 | 1.270 |
| Replicate Prob(F) | | | | | 1.0000 | 0.1400 | 0.5058 | 0.4019 | 0.3224 |
| Treatment F | | | | | 0.000 | 230.841 | 196.371 | 981.273 | 886.246 |
| Treatment Prob(F) | | | | | 1.0000 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

The Ohio State University

UPL FALL CORN

Trial ID: 21FALLCORN2 Location: Western Branch F-9 West Trial Year: 2021
Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
Project ID: Study Director:
Sponsor Contact:

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, Giant foxtail = US

AMBTR, Ambrosia trifida, Giant ragweed = US

CHEAL, Chenopodium album, common lambsquarters = US

AMARE, Amaranthus retroflexus, Redroot pigweed = US

Crop Type, Code

C = EPPO species (Bayer) codes

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

PHYNEC = phytotoxicity - necrosis /burn

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

Rating Unit/Min/Max

%, 0, 100 = percent

ARM Action Codes

AA = Automatic arcsine square root % transformation

AL = Automatic log transformation of X+1

AS = Automatic square root transformation of X+0.5