

Ohio State University
Horticulture and Crop Science

HPPD Resistance Programs in Fld Corn

Title No. 2:
Trial ID: 12PRPOC2 Protocol ID: 12PRPOC2
Location: WESTERN BRANCH F-7 Study Director: Anthony F. Dobbels
Project ID: HP12NARBLY Investigator: Dr. Mark M. Loux
Sponsor Contact: Dave Lamore, Bayer CropScience

General Trial Information

Study Director: Anthony F. Dobbels Title: Research Specialist
Investigator: Dr. Mark M. Loux Title: Professor

Trial Location

City: South Charleston Latitude of LL Corner °: 39.86016 N
State/Prov.: Ohio Longitude of LL Corner °: 83.67053 W
Postal Code: 45368
Country: USA

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Seed Consultants SCS 11HQ38
BBCH Scale: BCOR Description: RR/LL
Planting Method: SEEDED seeded Planting Date: Apr-19-2012
Depth, Unit: 2 IN Rate, Unit: 32097 S/A
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium Soil Temperature, Unit: 56 F
Soil Moisture: GOOD good Emergence Date: May-4-2012

Pest Description

- Pest 1 Type: W Code: AMBTR Ambrosia trifida
Common Name: Giant ragweed
- Pest 2 Type: W Code: SETFA Setaria faberi
Common Name: Giant foxtail
- Pest 3 Type: W Code: POLPY Persicaria pensylvanica
Common Name: Pennsylvania smartweed
- Pest 4 Type: W Code: IPOHE Ipomoea hederacea
Common Name: Ivyleaf morningglory
- Pest 5 Type: W Code: CHEAL Chenopodium album
Common Name: Common lambsquarters
- Pest 6 Type: W Code: HIBTR Hibiscus trionum
Common Name: Venice mallow
- Pest 7 Type: W Code: ABUTH Abutilon theophrasti
Common Name: velvetleaf
- Pest 8 Type: W Code: AMARE Amaranthus retroflexus
Common Name: Redroot pigweed

Site and Design

Plot Width, Unit: 6.67 FT Site Type: FIELD field
Plot Length, Unit: 30 FT Experimental Unit: 1 PLOT plot
Plot Area, Unit: 200.1 FT2 Tillage Type: CONTIL conventional-till
Replications: 3 Study Design: RACOBL Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Trial Initiation Comments:

Soil Description

Description Name: F-7 East
% OM: 1.8 Texture: SIL silt loam
pH: 5.7 Soil Name: Crosby
CEC: 16.2 Fert. Level: G good
Soil Drainage: G good

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Horticulture and Crop Science

Application Description

| | A | B |
|-------------------------|-------------|-------------|
| Application Date: | Apr-19-2012 | May-23-2012 |
| Time of Day: | 1:30 P.M. | 10:00AM |
| Application Method: | SPRAY | SPRAY |
| Application Timing: | PRE | POST |
| Application Placement: | BROSOI | BROFOL |
| Air Temperature, Unit: | 76 F | 69 F |
| % Relative Humidity: | 48 | 67 |
| Wind Velocity, Unit: | 1 MPH | 2 MPH |
| Wind Direction: | N | NNE |
| Dew Presence (Y/N): | N no | N no |
| Soil Temperature, Unit: | 60 F | 67 F |
| Soil Moisture: | GOOD | DRY |
| % Cloud Cover: | 7 | 85 |
| Next Rain Occurred On: | Apr-21-2012 | May-31-2012 |

Crop Stage At Each Application

| | A | B |
|--------------------------|------------|------------|
| Crop 1 Code, BBCH Scale: | ZEAMX BCOR | ZEAMX BCOR |
| Stage Scale Used: | | BBCH |
| Stage Majority, Percent: | | 14 100 |
| Height, Unit: | | 8 IN |
| Height Minimum, Maximum: | | 8 8 |

Pest Stage At Each Application

| | A | B |
|---------------------------|---------|----------|
| Pest 1 Code, Type, Scale: | AMBTR W | AMBTR W |
| Stage Majority, Percent: | | 14 100 |
| Height, Unit: | | 2 IN |
| Height Minimum, Maximum: | | 1 3 |
| Density, Unit: | | 42.6 M2 |
| Pest 2 Code, Type, Scale: | SETFA W | SETFA W |
| Stage Majority, Percent: | | 12 100 |
| Height, Unit: | | 1 IN |
| Height Minimum, Maximum: | | 1 1 |
| Density, Unit: | | 153.3 M2 |
| Pest 3 Code, Type, Scale: | POLPY W | POLPY W |
| Density, Unit: | | 4 M2 |
| Pest 4 Code, Type, Scale: | IPOHE W | IPOHE W |
| Density, Unit: | | 4 M2 |
| Pest 5 Code, Type, Scale: | CHEAL W | CHEAL W |
| Density, Unit: | | 13 M2 |
| Pest 6 Code, Type, Scale: | HIBTR W | HIBTR W |
| Density, Unit: | | 2.6 M2 |
| Pest 7 Code, Type, Scale: | ABUTH W | ABUTH W |
| Density, Unit: | | 1.3 M2 |
| Pest 8 Code, Type, Scale: | AMARE W | AMARE W |
| Density, Unit: | | 7.8 M2 |

Application Equipment

| | A | B |
|---------------------------|-------------|-------------|
| Appl. Equipment: | 6 foot boom | 6 foot boom |
| Equipment Type: | SPRBAC | SPRBAC |
| Operation Pressure, Unit: | 46 PSI | 46 PSI |
| Nozzle Type: | AI XR | AI XR |
| Nozzle Size: | 110015 | 110015 |
| Nozzle Spacing, Unit: | 18 IN | 18 IN |
| Boom Length, Unit: | 6 FT | 6 FT |
| Boom Height, Unit: | 20 IN | 20 IN |
| Ground Speed, Unit: | 3 MPH | 3 MPH |
| Carrier: | WATER | WATER |
| Spray Volume, Unit: | 15 GPA | 15 GPA |
| Mix Size, Unit: | 1 Liters | 1 Liters |
| Propellant: | CO2 | CO2 |

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Title No. 2:

Trial ID: 12PRPOC2

Protocol ID: 12PRPOC2

Location: WESTERN BRANCH F-7

Study Director: Anthony F. Dobbels

Project ID: HP12NARBLY

Investigator: Dr. Mark M. Loux

Sponsor Contact: Dave Lamore, Bayer CropScience

| Pest Type | W Weed | W Weed | W Weed | W Weed |
|-------------------------------|----------------|------------------|----------------------|-------------------------|
| Pest Code | SETFA | AMBTR | CHEAL | AMARE |
| Pest Scientific Name | Setaria faberi | Ambrosia trifida | Chenopodium album | Amaranthus retrofractus |
| Pest Name | Giant foxtail | Giant ragweed | Common lambsquarters | Redroot pigweed |
| Crop Code | ZEAMX | | | |
| BBCH Scale | BCOR | | | |
| Crop Scientific Name | Zea mays | | | |
| Crop Name | Corn | | | |
| Rating Date | May-14-2012 | May-14-2012 | May-14-2012 | May-14-2012 |
| Rating Type | PHYTO | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 25 25 | 25 25 | 25 25 | 25 25 |
| Trt-Eval Interval | 25 DA-A | 25 DA-A | 25 DA-A | 25 DA-A |
| Plant-Eval Interval | 25 DP-1 | 25 DP-1 | 25 DP-1 | 25 DP-1 |
| Days After Emergence | 10 DE-1 | 10 DE-1 | 10 DE-1 | 10 DE-1 |
| Number of Decimals | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate | Other Rate | Other Rate | Growth Stage | Appl Code | 1 | 2 | 3 | 4 | 5 |
|---------|----------------|-----------|------------|------------|--------------|-----------|-----|-------|------|-------|-------|
| 1 | UTC | | | | | | 0 a | 0 c | 0 b | 0 b | 0 b |
| 2 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 0 a | 100 a | 87 a | 100 a | 100 a |
| | 2 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| 3 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 0 a | 100 a | 87 a | 100 a | 100 a |
| | 3 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| | 3 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | |
| 4 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 0 a | 97 b | 90 a | 100 a | 100 a |
| | 4 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| | 4 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | |
| | 4 Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | |
| | 4 N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | |
| 5 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 0 a | 100 a | 88 a | 100 a | 100 a |
| | 5 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| | 5 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | |
| | 5 Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | |
| | 5 Clarity | 8 oz/a | 8 oz/a | | POST | B | | | | | |
| | 5 N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | |
| 6 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 0 a | 100 a | 87 a | 100 a | 100 a |
| | 6 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| | 6 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | |
| | 6 Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | |
| | 6 Clarity | 16 oz/a | 1 pt/a | | POST | B | | | | | |
| | 6 N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | |
| 7 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 0 a | 100 a | 90 a | 100 a | 100 a |
| | 7 Atrazine | 1.5 qt/a | 48 oz/a | | PRE | A | | | | | |
| | 7 Clarity | 16 oz/a | 1 pt/a | | PRE | A | | | | | |
| 8 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 0 a | 100 a | 82 a | 100 a | 100 a |
| | 8 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| | 8 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | |
| | 8 Clarity | 8 oz/a | 8 oz/a | | PRE | A | | | | | |
| 9 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 0 a | 100 a | 82 a | 100 a | 100 a |
| | 9 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| | 9 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | |
| | 9 Clarity | 8 oz/a | 8 oz/a | | PRE | A | | | | | |
| | 9 Clarity | 8 oz/a | 8 oz/a | | POST | B | | | | | |

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

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

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| Pest Type | W Weed | W Weed | W Weed | W Weed | | | | | | |
|-------------------------------|----------------|-----------------------|-----------------|-----------------|------|--------|---------|--------|--------|--------|
| Pest Code | SETFA | AMBTR | CHEAL | AMARE | | | | | | |
| Pest Scientific Name | Setaria faberi | Ambrosia trifi> | Chenopodium al> | Amaranthus ret> | | | | | | |
| Pest Name | Giant foxtail | Giant Common lambsqu> | | Redroot pigweed | | | | | | |
| Crop Code | ZEAMX | | | | | | | | | |
| BBCH Scale | BCOR | | | | | | | | | |
| Crop Scientific Name | Zea mays | | | | | | | | | |
| Crop Name | Corn | | | | | | | | | |
| Rating Date | May-14-2012 | May-14-2012 | May-14-2012 | May-14-2012 | | | | | | |
| Rating Type | PHYTO | CONTRO | CONTRO | CONTRO | | | | | | |
| Rating Unit | % | % | % | % | | | | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | | | | | | |
| Days After First/Last Applic. | 25 25 | 25 25 | 25 25 | 25 25 | | | | | | |
| Trt-Eval Interval | 25 DA-A | 25 DA-A | 25 DA-A | 25 DA-A | | | | | | |
| Plant-Eval Interval | 25 DP-1 | 25 DP-1 | 25 DP-1 | 25 DP-1 | | | | | | |
| Days After Emergence | 10 DE-1 | 10 DE-1 | 10 DE-1 | 10 DE-1 | | | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | | | | | | |
| Trt Treatment | Rate | Other | Other | Growth | Appl | 1 | 2 | 3 | 4 | 5 |
| No. Name | Rate Unit | Rate | Rate Unit | Stage | Code | | | | | |
| 9 COC | 1 % v/v | 1.2 pt/a | | POST | B | | | | | |
| 9 N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | |
| 10 Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 0 a | 100 a | 85 a | 100 a | 100 a |
| 10 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| 10 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | |
| 10 Clarity | 8 oz/a | 8 oz/a | | PRE | A | | | | | |
| 10 Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | |
| 10 Clarity | 8 oz/a | 8 oz/a | | POST | B | | | | | |
| 10 N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | |
| 11 Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 0 a | 100 a | 87 a | 100 a | 100 a |
| 11 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| 11 Zidua | 3 oz/a | 3 oz/a | | PRE | A | | | | | |
| 11 Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | |
| 11 Clarity | 8 oz/a | 8 oz/a | | POST | B | | | | | |
| 11 N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | |
| 12 Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 0 a | 100 a | 87 a | 100 a | 100 a |
| 12 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| 12 Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | |
| 12 Clarity | 8 oz/a | 8 oz/a | | POST | B | | | | | |
| 12 N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | |
| LSD (P=.05) | | | | | | 0.0 | 2.8 | 10.0 | 0.0 | 0.0 |
| Standard Deviation | | | | | | 0.0 | 1.7 | 5.9 | 0.0 | 0.0 |
| CV | | | | | | 0.0 | 1.82 | 7.46 | 0.0 | 0.0 |
| Replicate F | | | | | | 0.000 | 1.000 | 0.239 | 0.000 | 0.000 |
| Replicate Prob(F) | | | | | | 1.0000 | 0.3840 | 0.7893 | 1.0000 | 1.0000 |
| Treatment F | | | | | | 0.000 | 895.546 | 54.109 | 0.000 | 0.000 |
| Treatment Prob(F) | | | | | | 1.0000 | 0.0001 | 0.0001 | 1.0000 | 1.0000 |

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| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed |
|-------------------------------|-----------------|----------------|------------------|-----------------|-----------------|
| Pest Code | POLPY | SETFA | AMBTR | POLPY | ABUTH |
| Pest Scientific Name | Persicaria pen> | Setaria faberi | Ambrosia trifida | Persicaria pen> | Abutilon theop> |
| Pest Name | Pennsylvania s> | Giant foxtail | Giant ragweed | Pennsylvania s> | velvetleaf |
| Crop Code | ZEAMX | | | | |
| BBCH Scale | BCOR | | | | |
| Crop Scientific Name | Zea mays | | | | |
| Crop Name | Corn | | | | |
| Rating Date | May-14-2012 | May-22-2012 | May-22-2012 | May-22-2012 | May-22-2012 |
| Rating Type | CONTRO | PHYTO | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 25 25 | 33 33 | 33 33 | 33 33 | 33 33 |
| Trt-Eval Interval | 25 DA-A | 25 DA-A | 33 DA-A | 33 DA-A | 33 DA-A |
| Plant-Eval Interval | 25 DP-1 | 33 DP-1 | 33 DP-1 | 33 DP-1 | 33 DP-1 |
| Days After Emergence | 10 DE-1 | 18 DE-1 | 18 DE-1 | 18 DE-1 | 18 DE-1 |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Rate | Other Rate | Other Rate | Growth Stage | Appl Code | 6 | 7 | 8 | 9 | 10 | 11 |
|---------|----------------|-----------|------------|------------|--------------|-----------|-------|-----|-------|-------|-------|-------|
| 1 | UTC | | | | | | 0 b | 0 a | 0 c | 0 c | 0 b | 0 b |
| 2 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a | 0 a | 95 ab | 75 ab | 100 a | 100 a |
| | 2 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | | |
| 3 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a | 0 a | 100 a | 75 ab | 100 a | 100 a |
| | 3 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | | |
| | 3 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | | |
| 4 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a | 0 a | 100 a | 77 ab | 100 a | 100 a |
| | 4 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | | |
| | 4 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | | |
| | 4 Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | | |
| | 4 N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | | |
| 5 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a | 0 a | 100 a | 82 a | 100 a | 100 a |
| | 5 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | | |
| | 5 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | | |
| | 5 Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | | |
| | 5 Clarity | 8 oz/a | 8 oz/a | | POST | B | | | | | | |
| | 5 N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | | |
| 6 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a | 0 a | 100 a | 82 a | 100 a | 100 a |
| | 6 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | | |
| | 6 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | | |
| | 6 Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | | |
| | 6 Clarity | 16 oz/a | 1 pt/a | | POST | B | | | | | | |
| | 6 N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | | |
| 7 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a | 0 a | 100 a | 80 ab | 100 a | 100 a |
| | 7 Atrazine | 1.5 qt/a | 48 oz/a | | PRE | A | | | | | | |
| | 7 Clarity | 16 oz/a | 1 pt/a | | PRE | A | | | | | | |
| 8 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a | 0 a | 98 ab | 67 b | 100 a | 100 a |
| | 8 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | | |
| | 8 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | | |
| | 8 Clarity | 8 oz/a | 8 oz/a | | PRE | A | | | | | | |
| 9 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a | 0 a | 100 a | 67 b | 100 a | 100 a |
| | 9 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | | |
| | 9 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | | |
| | 9 Clarity | 8 oz/a | 8 oz/a | | PRE | A | | | | | | |
| | 9 Clarity | 8 oz/a | 8 oz/a | | POST | B | | | | | | |

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| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | | | | | | | |
|-------------------------------|-----------------|----------------|-----------------|-----------------|-----------------|------|--------|--------|---------|--------|--------|--------|
| Pest Code | POLPY | SETFA | AMBTR | POLPY | ABUTH | | | | | | | |
| Pest Scientific Name | Persicaria pen> | Setaria faberi | Ambrosia trifi> | Persicaria pen> | Abutilon theop> | | | | | | | |
| Pest Name | Pennsylvania s> | Giant foxtail | Giant ragweed | Pennsylvania s> | velvetleaf | | | | | | | |
| Crop Code | ZEAMX | | | | | | | | | | | |
| BBCH Scale | BCOR | | | | | | | | | | | |
| Crop Scientific Name | Zea mays | | | | | | | | | | | |
| Crop Name | Corn | | | | | | | | | | | |
| Rating Date | May-14-2012 | May-22-2012 | May-22-2012 | May-22-2012 | May-22-2012 | | | | | | | |
| Rating Type | CONTRO | PHYTO | CONTRO | CONTRO | CONTRO | | | | | | | |
| Rating Unit | % | % | % | % | % | | | | | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | | | | | | | |
| Days After First/Last Applic. | 25 25 | 33 33 | 33 33 | 33 33 | 33 33 | | | | | | | |
| Trt-Eval Interval | 25 DA-A | 25 DA-A | 33 DA-A | 33 DA-A | 33 DA-A | | | | | | | |
| Plant-Eval Interval | 25 DP-1 | 33 DP-1 | 33 DP-1 | 33 DP-1 | 33 DP-1 | | | | | | | |
| Days After Emergence | 10 DE-1 | 18 DE-1 | 18 DE-1 | 18 DE-1 | 18 DE-1 | | | | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| Trt | Treatment | Rate | Other | Other | Growth | Appl | 6 | 7 | 8 | 9 | 10 | 11 |
| No. | Name | Rate Unit | Rate | Rate Unit | Stage | Code | | | | | | |
| 9 | COC | 1 % v/v | 1.2 pt/a | | POST | B | | | | | | |
| 9 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | | |
| 10 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a | 0 a | 100 a | 77 ab | 100 a | 100 a |
| 10 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | | |
| 10 | Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | | |
| 10 | Clarity | 8 oz/a | 8 oz/a | | PRE | A | | | | | | |
| 10 | Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | | |
| 10 | Clarity | 8 oz/a | 8 oz/a | | POST | B | | | | | | |
| 10 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | | |
| 11 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a | 0 a | 100 a | 82 a | 100 a | 100 a |
| 11 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | | |
| 11 | Zidua | 3 oz/a | 3 oz/a | | PRE | A | | | | | | |
| 11 | Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | | |
| 11 | Clarity | 8 oz/a | 8 oz/a | | POST | B | | | | | | |
| 11 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | | |
| 12 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a | 0 a | 92 b | 72 ab | 100 a | 100 a |
| 12 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | | |
| 12 | Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | | |
| 12 | Clarity | 8 oz/a | 8 oz/a | | POST | B | | | | | | |
| 12 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | | |
| LSD (P=.05) | | 0.0 | 0.0 | | | | 0.0 | 0.0 | 7.8 | 14.1 | 0.0 | 0.0 |
| Standard Deviation | | 0.0 | 0.0 | | | | 0.0 | 0.0 | 4.6 | 8.3 | 0.0 | 0.0 |
| CV | | 0.0 | 0.0 | | | | 0.0 | 0.0 | 5.12 | 12.0 | 0.0 | 0.0 |
| Replicate F | | 0.000 | 0.000 | | | | 0.000 | 0.000 | 2.628 | 1.480 | 0.000 | 0.000 |
| Replicate Prob(F) | | 1.0000 | 1.0000 | | | | 1.0000 | 1.0000 | 0.0947 | 0.2494 | 1.0000 | 1.0000 |
| Treatment F | | 0.000 | 0.000 | | | | 0.000 | 0.000 | 114.628 | 21.869 | 0.000 | 0.000 |
| Treatment Prob(F) | | 1.0000 | 1.0000 | | | | 1.0000 | 1.0000 | 0.0001 | 0.0001 | 1.0000 | 1.0000 |

Ohio State University
Horticulture and Crop Science

| Pest Type | W Weed | W Weed | W Weed | W Weed | | | | | | |
|-------------------------------|-----------------|-----------------|-----------------|----------------|-------------|-------|-------|-------|-----|--------|
| Pest Code | AMARE | CHEAL | HIBTR | SETFA | | | | | | |
| Pest Scientific Name | Amaranthus ret> | Chenopodium al> | Hibiscus trion> | Setaria faberi | | | | | | |
| Pest Name | Redroot pigweed | Common lambsqu> | Venice mallow | Giant foxtail | | | | | | |
| Crop Code | | | | ZEAMX | | | | | | |
| BBCH Scale | | | | BCOR | | | | | | |
| Crop Scientific Name | | | | Zea mays | | | | | | |
| Crop Name | | | | Corn | | | | | | |
| Rating Date | May-22-2012 | May-22-2012 | May-22-2012 | May-30-2012 | Jun-13-2012 | | | | | |
| Rating Type | CONTRO | CONTRO | CONTRO | PHYTO | CONTRO | | | | | |
| Rating Unit | % | % | % | % | % | | | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | | | | | |
| Days After First/Last Applic. | 33 33 | 33 33 | 33 33 | 41 7 | 55 21 | | | | | |
| Trt-Eval Interval | 33 DA-A | 33 DA-A | 33 DA-A | 7 DA-B | 21 DA-B | | | | | |
| Plant-Eval Interval | 33 DP-1 | 33 DP-1 | 33 DP-1 | 41 DP-1 | 55 DP-1 | | | | | |
| Days After Emergence | 18 DE-1 | 18 DE-1 | 18 DE-1 | 26 DE-1 | 40 DE-1 | | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | | | | | |
| Trt Treatment | Rate | Other | Other | Growth | Appl | 12 | 13 | 14 | 15 | 16 |
| No. Name | Rate Unit | Rate | Rate Unit | Stage | Code | | | | | |
| 1 UTC | | | | | | 0 b | 0 b | 0 b | 0 a | 0 e |
| 2 Balance Flexx | 6 oz/a | 6 oz/a | 6 oz/a | PRE | A | 100 a | 100 a | 100 a | 0 a | 75 d |
| 2 Atrazine | 1.5 qt/a | 1.5 qt/a | 1.5 qt/a | PRE | A | | | | | |
| 3 Balance Flexx | 6 oz/a | 6 oz/a | 6 oz/a | PRE | A | 100 a | 100 a | 100 a | 0 a | 81 cd |
| 3 Atrazine | 1.5 qt/a | 1.5 qt/a | 1.5 qt/a | PRE | A | | | | | |
| 3 Harness | 2.25 pt/a | 36 oz/a | 36 oz/a | PRE | A | | | | | |
| 4 Balance Flexx | 6 oz/a | 6 oz/a | 6 oz/a | PRE | A | 100 a | 100 a | 100 a | 0 a | 90 ab |
| 4 Atrazine | 1.5 qt/a | 1.5 qt/a | 1.5 qt/a | PRE | A | | | | | |
| 4 Harness | 2.25 pt/a | 36 oz/a | 36 oz/a | PRE | A | | | | | |
| 4 Liberty | 22 oz/a | 22 oz/a | 22 oz/a | POST | B | | | | | |
| 4 N-PAK AMS | 2.5 % v/v | 1.5 qt/a | 1.5 qt/a | POST | B | | | | | |
| 5 Balance Flexx | 6 oz/a | 6 oz/a | 6 oz/a | PRE | A | 100 a | 100 a | 100 a | 0 a | 88 abc |
| 5 Atrazine | 1.5 qt/a | 1.5 qt/a | 1.5 qt/a | PRE | A | | | | | |
| 5 Harness | 2.25 pt/a | 36 oz/a | 36 oz/a | PRE | A | | | | | |
| 5 Liberty | 22 oz/a | 22 oz/a | 22 oz/a | POST | B | | | | | |
| 5 Clarity | 8 oz/a | 8 oz/a | 8 oz/a | POST | B | | | | | |
| 5 N-PAK AMS | 2.5 % v/v | 1.5 qt/a | 1.5 qt/a | POST | B | | | | | |
| 6 Balance Flexx | 6 oz/a | 6 oz/a | 6 oz/a | PRE | A | 100 a | 100 a | 100 a | 0 a | 92 ab |
| 6 Atrazine | 1.5 qt/a | 1.5 qt/a | 1.5 qt/a | PRE | A | | | | | |
| 6 Harness | 2.25 pt/a | 36 oz/a | 36 oz/a | PRE | A | | | | | |
| 6 Liberty | 22 oz/a | 22 oz/a | 22 oz/a | POST | B | | | | | |
| 6 Clarity | 16 oz/a | 1 pt/a | 1 pt/a | POST | B | | | | | |
| 6 N-PAK AMS | 2.5 % v/v | 1.5 qt/a | 1.5 qt/a | POST | B | | | | | |
| 7 Balance Flexx | 6 oz/a | 6 oz/a | 6 oz/a | PRE | A | 100 a | 100 a | 100 a | 0 a | 76 d |
| 7 Atrazine | 1.5 qt/a | 48 oz/a | 48 oz/a | PRE | A | | | | | |
| 7 Clarity | 16 oz/a | 1 pt/a | 1 pt/a | PRE | A | | | | | |
| 8 Balance Flexx | 6 oz/a | 6 oz/a | 6 oz/a | PRE | A | 100 a | 100 a | 100 a | 0 a | 83 bcd |
| 8 Atrazine | 1.5 qt/a | 1.5 qt/a | 1.5 qt/a | PRE | A | | | | | |
| 8 Harness | 2.25 pt/a | 36 oz/a | 36 oz/a | PRE | A | | | | | |
| 8 Clarity | 8 oz/a | 8 oz/a | 8 oz/a | PRE | A | | | | | |
| 9 Balance Flexx | 6 oz/a | 6 oz/a | 6 oz/a | PRE | A | 100 a | 100 a | 100 a | 0 a | 83 bcd |
| 9 Atrazine | 1.5 qt/a | 1.5 qt/a | 1.5 qt/a | PRE | A | | | | | |
| 9 Harness | 2.25 pt/a | 36 oz/a | 36 oz/a | PRE | A | | | | | |
| 9 Clarity | 8 oz/a | 8 oz/a | 8 oz/a | PRE | A | | | | | |
| 9 Clarity | 8 oz/a | 8 oz/a | 8 oz/a | POST | B | | | | | |

Ohio State University
Horticulture and Crop Science

| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | | | | | | |
|-------------------------------|--------------------|-----------------|-----------------|-------------|----------------|-----------|--------|--------|--------|--------|--------|
| Pest Code | AMARE | CHEAL | HIBTR | | SETFA | | | | | | |
| Pest Scientific Name | Amaranthus ret> | Chenopodium al> | Hibiscus trion> | | Setaria faberi | | | | | | |
| Pest Name | Redroot pigweed | Common lambsqu> | Venice mallow | | Giant foxtail | | | | | | |
| Crop Code | | | | ZEAMX | | | | | | | |
| BBCH Scale | | | | BCOR | | | | | | | |
| Crop Scientific Name | | | | Zea mays | | | | | | | |
| Crop Name | | | | Corn | | | | | | | |
| Rating Date | May-22-2012 | May-22-2012 | May-22-2012 | May-30-2012 | Jun-13-2012 | | | | | | |
| Rating Type | CONTRO | CONTRO | CONTRO | PHYTO | CONTRO | | | | | | |
| Rating Unit | % | % | % | % | % | | | | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | | | | | | |
| Days After First/Last Applic. | 33 33 | 33 33 | 33 33 | 41 7 | 55 21 | | | | | | |
| Trt-Eval Interval | 33 DA-A | 33 DA-A | 33 DA-A | 7 DA-B | 21 DA-B | | | | | | |
| Plant-Eval Interval | 33 DP-1 | 33 DP-1 | 33 DP-1 | 41 DP-1 | 55 DP-1 | | | | | | |
| Days After Emergence | 18 DE-1 | 18 DE-1 | 18 DE-1 | 26 DE-1 | 40 DE-1 | | | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | | | | | | |
| Trt No. | Treatment Name | Rate | Other Rate | Other Rate | Growth Stage | Appl Code | 12 | 13 | 14 | 15 | 16 |
| 9 | COC | 1 % v/v | 1.2 pt/a | | POST | B | | | | | |
| 9 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | |
| 10 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a | 100 a | 100 a | 0 a | 93 a |
| 10 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| 10 | Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | |
| 10 | Clarity | 8 oz/a | 8 oz/a | | PRE | A | | | | | |
| 10 | Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | |
| 10 | Clarity | 8 oz/a | 8 oz/a | | POST | B | | | | | |
| 10 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | |
| 11 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a | 100 a | 100 a | 0 a | 87 abc |
| 11 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| 11 | Zidua | 3 oz/a | 3 oz/a | | PRE | A | | | | | |
| 11 | Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | |
| 11 | Clarity | 8 oz/a | 8 oz/a | | POST | B | | | | | |
| 11 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | |
| 12 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a | 100 a | 100 a | 0 a | 86 abc |
| 12 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| 12 | Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | |
| 12 | Clarity | 8 oz/a | 8 oz/a | | POST | B | | | | | |
| 12 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | |
| | LSD (P=.05) | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 8.8 |
| | Standard Deviation | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 5.2 |
| | CV | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 6.66 |
| | Replicate F | | | | | | 0.000 | 0.000 | 0.000 | 0.000 | 7.758 |
| | Replicate Prob(F) | | | | | | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0028 |
| | Treatment F | | | | | | 0.000 | 0.000 | 0.000 | 0.000 | 70.675 |
| | Treatment Prob(F) | | | | | | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0001 |

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| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | | | | | | |
|-------------------------------|------------------|-------------------------|----------------------|-------------------------|----------------------|-----------|-------|-------|-------|-------|-------|
| Pest Code | AMBTR | POLPY | ABUTH | AMARE | CHEAL | | | | | | |
| Pest Scientific Name | Ambrosia trifida | Persicaria pensylvanica | Abutilon theophrasti | Amaranthus retrofractus | Chenopodium album | | | | | | |
| Pest Name | Giant ragweed | Pennsylvania sp. | velvetleaf | Redroot pigweed | Common lambsquarters | | | | | | |
| Crop Code | | | | | | | | | | | |
| BBCH Scale | | | | | | | | | | | |
| Crop Scientific Name | | | | | | | | | | | |
| Crop Name | | | | | | | | | | | |
| Rating Date | Jun-13-2012 | Jun-13-2012 | Jun-13-2012 | Jun-13-2012 | Jun-13-2012 | | | | | | |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | | | | | | |
| Rating Unit | % | % | % | % | % | | | | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | | | | | | |
| Days After First/Last Applic. | 55 21 | 55 21 | 55 21 | 55 21 | 55 21 | | | | | | |
| Trt-Eval Interval | 21 DA-B | 21 DA-B | 21 DA-B | 21 DA-B | 21 DA-B | | | | | | |
| Plant-Eval Interval | 55 DP-1 | 55 DP-1 | 55 DP-1 | 55 DP-1 | 55 DP-1 | | | | | | |
| Days After Emergence | 40 DE-1 | 40 DE-1 | 40 DE-1 | 40 DE-1 | 40 DE-1 | | | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | | | | | | |
| Trt No. | Treatment Name | Rate | Other Rate | Other Rate | Growth Stage | Appl Code | 17 | 18 | 19 | 20 | 21 |
| 1 | UTC | | | | | | 0 f | 0 b | 0 b | 0 c | 0 c |
| 2 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 63 e | 100 a | 100 a | 78 b | 100 a |
| | 2 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| 3 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 72 de | 100 a | 100 a | 98 a | 100 a |
| | 3 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| | 3 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | |
| 4 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 89 ab | 100 a | 100 a | 98 a | 100 a |
| | 4 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| | 4 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | |
| | 4 Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | |
| | 4 N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | |
| 5 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 93 ab | 100 a | 100 a | 100 a | 100 a |
| | 5 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| | 5 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | |
| | 5 Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | |
| | 5 Clarity | 8 oz/a | 8 oz/a | | POST | B | | | | | |
| | 5 N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | |
| 6 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 98 a | 100 a | 100 a | 100 a | 100 a |
| | 6 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| | 6 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | |
| | 6 Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | |
| | 6 Clarity | 16 oz/a | 1 pt/a | | POST | B | | | | | |
| | 6 N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | |
| 7 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 77 cd | 100 a | 100 a | 80 b | 95 b |
| | 7 Atrazine | 1.5 qt/a | 48 oz/a | | PRE | A | | | | | |
| | 7 Clarity | 16 oz/a | 1 pt/a | | PRE | A | | | | | |
| 8 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 77 cd | 100 a | 100 a | 95 a | 100 a |
| | 8 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| | 8 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | |
| | 8 Clarity | 8 oz/a | 8 oz/a | | PRE | A | | | | | |
| 9 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 94 ab | 100 a | 100 a | 100 a | 100 a |
| | 9 Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| | 9 Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | |
| | 9 Clarity | 8 oz/a | 8 oz/a | | PRE | A | | | | | |
| | 9 Clarity | 8 oz/a | 8 oz/a | | POST | B | | | | | |

Ohio State University
Horticulture and Crop Science

| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | | | | | | |
|-------------------------------|--------------------|-----------------|-----------------|-----------------|-----------------|-----------|--------|--------|--------|--------|---------|
| Pest Code | AMBTR | POLPY | ABUTH | AMARE | CHEAL | | | | | | |
| Pest Scientific Name | Ambrosia trifi> | Persicaria pen> | Abutilon theop> | Amaranthus ret> | Chenopodium al> | | | | | | |
| Pest Name | Giant ragweed | Pennsylvania s> | velvetleaf | Redroot pigweed | Common lambsqu> | | | | | | |
| Crop Code | | | | | | | | | | | |
| BBCH Scale | | | | | | | | | | | |
| Crop Scientific Name | | | | | | | | | | | |
| Crop Name | | | | | | | | | | | |
| Rating Date | Jun-13-2012 | Jun-13-2012 | Jun-13-2012 | Jun-13-2012 | Jun-13-2012 | | | | | | |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | CONTRO | | | | | | |
| Rating Unit | % | % | % | % | % | | | | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | | | | | | |
| Days After First/Last Applic. | 55 21 | 55 21 | 55 21 | 55 21 | 55 21 | | | | | | |
| Trt-Eval Interval | 21 DA-B | 21 DA-B | 21 DA-B | 21 DA-B | 21 DA-B | | | | | | |
| Plant-Eval Interval | 55 DP-1 | 55 DP-1 | 55 DP-1 | 55 DP-1 | 55 DP-1 | | | | | | |
| Days After Emergence | 40 DE-1 | 40 DE-1 | 40 DE-1 | 40 DE-1 | 40 DE-1 | | | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 | | | | | | |
| Trt No. | Treatment Name | Rate Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code | 17 | 18 | 19 | 20 | 21 |
| 9 | COC | 1 % v/v | 1.2 pt/a | | POST | B | | | | | |
| 9 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | |
| 10 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 95 ab | 100 a | 100 a | 100 a | 100 a |
| 10 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| 10 | Harness | 2.25 pt/a | 36 oz/a | | PRE | A | | | | | |
| 10 | Clarity | 8 oz/a | 8 oz/a | | PRE | A | | | | | |
| 10 | Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | |
| 10 | Clarity | 8 oz/a | 8 oz/a | | POST | B | | | | | |
| 10 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | |
| 11 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 99 a | 100 a | 100 a | 100 a | 100 a |
| 11 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| 11 | Zidua | 3 oz/a | 3 oz/a | | PRE | A | | | | | |
| 11 | Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | |
| 11 | Clarity | 8 oz/a | 8 oz/a | | POST | B | | | | | |
| 11 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | |
| 12 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 87 bc | 100 a | 100 a | 100 a | 100 a |
| 12 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | | | | | |
| 12 | Liberty | 22 oz/a | 22 oz/a | | POST | B | | | | | |
| 12 | Clarity | 8 oz/a | 8 oz/a | | POST | B | | | | | |
| 12 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | | | | | |
| | LSD (P=.05) | | | | | | 11.6 | 0.0 | 0.0 | 8.8 | 4.2 |
| | Standard Deviation | | | | | | 6.8 | 0.0 | 0.0 | 5.2 | 2.5 |
| | CV | | | | | | 8.7 | 0.0 | 0.0 | 5.91 | 2.74 |
| | Replicate F | | | | | | 0.162 | 0.000 | 0.000 | 2.106 | 1.000 |
| | Replicate Prob(F) | | | | | | 0.8514 | 1.0000 | 1.0000 | 0.1455 | 0.3840 |
| | Treatment F | | | | | | 47.707 | 0.000 | 0.000 | 92.170 | 397.364 |
| | Treatment Prob(F) | | | | | | 0.0001 | 1.0000 | 1.0000 | 0.0001 | 0.0001 |

Ohio State University
Horticulture and Crop Science

Pest Type W Weed
 Pest Code HIBTR
 Pest Scientific Name Hibiscus trion>
 Pest Name Venice mallow
 Crop Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date Jun-13-2012
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1
 Days After First/Last Applic. 55 21
 Trt-Eval Interval 21 DA-B
 Plant-Eval Interval 55 DP-1
 Days After Emergence 40 DE-1
 Number of Decimals 0

| Trt No. | Treatment Name | Rate Rate Unit | Other Rate | Other Rate Unit | Growth Stage | Appl Code | 22 |
|---------|----------------|----------------|------------|-----------------|--------------|-----------|-------|
| 1 | UTC | | | | | | 0 b |
| 2 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a |
| 2 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | |
| 3 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a |
| 3 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | |
| 3 | Harness | 2.25 pt/a | 36 oz/a | | PRE | A | |
| 4 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a |
| 4 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | |
| 4 | Harness | 2.25 pt/a | 36 oz/a | | PRE | A | |
| 4 | Liberty | 22 oz/a | 22 oz/a | | POST | B | |
| 4 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | |
| 5 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a |
| 5 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | |
| 5 | Harness | 2.25 pt/a | 36 oz/a | | PRE | A | |
| 5 | Liberty | 22 oz/a | 22 oz/a | | POST | B | |
| 5 | Clarity | 8 oz/a | 8 oz/a | | POST | B | |
| 5 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | |
| 6 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a |
| 6 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | |
| 6 | Harness | 2.25 pt/a | 36 oz/a | | PRE | A | |
| 6 | Liberty | 22 oz/a | 22 oz/a | | POST | B | |
| 6 | Clarity | 16 oz/a | 1 pt/a | | POST | B | |
| 6 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | |
| 7 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a |
| 7 | Atrazine | 1.5 qt/a | 48 oz/a | | PRE | A | |
| 7 | Clarity | 16 oz/a | 1 pt/a | | PRE | A | |
| 8 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a |
| 8 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | |
| 8 | Harness | 2.25 pt/a | 36 oz/a | | PRE | A | |
| 8 | Clarity | 8 oz/a | 8 oz/a | | PRE | A | |
| 9 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a |
| 9 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | |
| 9 | Harness | 2.25 pt/a | 36 oz/a | | PRE | A | |
| 9 | Clarity | 8 oz/a | 8 oz/a | | PRE | A | |
| 9 | Clarity | 8 oz/a | 8 oz/a | | POST | B | |

Ohio State University
Horticulture and Crop Science

| | |
|-------------------------------|-----------------|
| Pest Type | W Weed |
| Pest Code | HIBTR |
| Pest Scientific Name | Hibiscus trion> |
| Pest Name | Venice mallow |
| Crop Code | |
| BBCH Scale | |
| Crop Scientific Name | |
| Crop Name | |
| Rating Date | Jun-13-2012 |
| Rating Type | CONTRO |
| Rating Unit | % |
| Number of Subsamples | 1 |
| Days After First/Last Applic. | 55 21 |
| Trt-Eval Interval | 21 DA-B |
| Plant-Eval Interval | 55 DP-1 |
| Days After Emergence | 40 DE-1 |
| Number of Decimals | 0 |

| Trt No. | Treatment Name | Rate | Other Rate | Other Unit | Growth Stage | Appl Code | |
|---------|--------------------|-----------|------------|------------|--------------|-----------|--------|
| 9 | COC | 1 % v/v | 1.2 pt/a | | POST | B | |
| 9 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | 22 |
| 10 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a |
| 10 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | |
| 10 | Harness | 2.25 pt/a | 36 oz/a | | PRE | A | |
| 10 | Clarity | 8 oz/a | 8 oz/a | | PRE | A | |
| 10 | Liberty | 22 oz/a | 22 oz/a | | POST | B | |
| 10 | Clarity | 8 oz/a | 8 oz/a | | POST | B | |
| 10 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | |
| 11 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a |
| 11 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | |
| 11 | Zidua | 3 oz/a | 3 oz/a | | PRE | A | |
| 11 | Liberty | 22 oz/a | 22 oz/a | | POST | B | |
| 11 | Clarity | 8 oz/a | 8 oz/a | | POST | B | |
| 11 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | |
| 12 | Balance Flexx | 6 oz/a | 6 oz/a | | PRE | A | 100 a |
| 12 | Atrazine | 1.5 qt/a | 1.5 qt/a | | PRE | A | |
| 12 | Liberty | 22 oz/a | 22 oz/a | | POST | B | |
| 12 | Clarity | 8 oz/a | 8 oz/a | | POST | B | |
| 12 | N-PAK AMS | 2.5 % v/v | 1.5 qt/a | | POST | B | |
| | LSD (P=.05) | | | | | | 0.0 |
| | Standard Deviation | | | | | | 0.0 |
| | CV | | | | | | 0.0 |
| | Replicate F | | | | | | 0.000 |
| | Replicate Prob(F) | | | | | | 1.0000 |
| | Treatment F | | | | | | 0.000 |
| | Treatment Prob(F) | | | | | | 1.0000 |