# Purdue Weed Science

**Residual Weed Control in Soybean with Xtendimax Herbicide Combinations**

Trial ID: 23-MGS-Soy-05
Protocol ID: 23-MGS-Soy-05 Location: Trial Year: 2023
Study Director: Dr. Bill Johnson Sponsor Contact: John Schramski

Investigator: Dr. Bill Johnson

**General Trial Information**
**Study Director:** Dr. Bill Johnson **Title:** Professor
**Investigator:** Dr. Bill Johnson **Title:** Professor

**Discipline:** H herbicide
**Status:** E established
**ARM Trial Created On:** Mar-30-2023
**Initiation Date:** May-5-2023 **Planned Completion Date:** Oct-15-2023

**Trial Location**
**City:** Lafayette **Country:** USA United States
**State/Prov.:** Indiana
**Postal Code:** 47907

**Latitude of LL Corner °:** 40.27157 N
**Longitude of LL Corner °:** -86.8806 W

**Regulations**
**Conducted Under GLP:** No
**Conducted Under GEP:** No

**Contacts**
**Role:** STYDIR study director
**Study Director:** Dr. Bill Johnson **Title:** Professor
**Organization:** Purdue University
**Address 1:** 915 W. State Street
**Country:** USA United States **E-mail:** wgj@purdue.edu
**City:** West Lafayette **State/Prov:** IN **Postal Code:** 47907
**Role:** INVEST investigator
**Investigator:** Dr. Bill Johnson **Title:** Professor
**Organization:** Purdue University
**Address 1:** 915 W. State Street
**Country:** USA United States **E-mail:** wgj@purdue.edu
**City:** West Lafayette **State/Prov:** IN **Postal Code:** 47907
**Role:** SPONSR sponsor
**Sponsor:** John Schramski
**Organization:** Bayer
**Role:** COOPER cooperator
**Cooperator:** Jay Young **Title:** Superintendent
**Organization:** Purdue University
**Address 1:** 8343 US 231 S **Phone No.:** (765) 538-3422
**Country:** USA United States **E-mail:** jayyoung@purdue.edu
**City:** Lafayette **State/Prov:** IN **Postal Code:** 47907

**Crop Description**
**Crop 1:** C GLXMA Glycine max Soybean
**Entry Date:** May-24-2023 **Stage Scale:** BBCH
**Variety:** AG29XF1
**Attributes:** Glyphosate-R, Glufosinate-R, and Dicamba-R
**Planting Date:** May-5-2023 **Planting Rate:** 140000 S/A
**Depth:** 1.5 IN
**Rows per Plot:** 4 **Planting Method:** PLANTD planted
**Row Spacing:** 30 IN **Planting Equipment:** PP plot planter
**Soil Temperature:** 78 F **Soil Moisture:** NORMAL normal, adequate
**Emergence Date:** May-15-2023

**Pest Description**
**Pest 1 Type:** W **Code:** AMATU Amaranthus tuberculatus **Entry Date:** May-24-2023
**Common Name:** tall waterhemp **Stage Scale:** BBCH
**Attributes:** Glyphosate-R and PPO-R

**Pest 2 Type:** W **Code:** SETFA Setaria faberi **Entry Date:** May-24-2023
**Common Name:** Giant foxtail **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 **Tillage Type:** NOTILL no-till
**Replications:** 4 **Treatments:** 10 **Plots:** 40 **Study Design:** RACOBL Randomized Complete Block (RCB)

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Study Director: Dr. Bill Johnson Sponsor Contact: John Schramski

Investigator: Dr. Bill Johnson

**Field Prep./Maintenance:**
Roundup PowerMax 3 (30 fl oz/A) + 2,4-D (1 pint/A) applied 04/12/2023.
Gramoxone (3 pt/A) applied 05/04/2023.

**Soil Description**
**Description Name:** MEIGS-S3
**% Sand:** 21 **% OM:** 2.2 **Texture:** SIL silt loam
**% Silt:** 54 **Soil Name:** Starks-Fincastle complex
**% Clay:** 25 **Fert. Level:** G good
**pH:** 6.8 **CEC:** 8.3

| No. | Date | Moisture Total | Unit | Min Temp | Max Temp | Avg Temp | Temp Unit | Max Wind | Avg Wind | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| **1.** | May-1-2023 | 0.011 | IN | 39.7 | 46.4 | 42.6 | F | 29.3 | 10.7 | MPH |
| **2.** | May-2-2023 | 0 | IN | 41 | 57.9 | 47.1 | F | 25.1 | 7.8 | MPH |
| **3.** | May-3-2023 | 0 | IN | 39.2 | 62.4 | 49.3 | F | 19.7 | 5.4 | MPH |
| **4.** | May-4-2023 | 0 | IN | 36.3 | 71.4 | 55.6 | F | 12.5 | 2 | MPH |
| **5.** | May-5-2023 | 0 | IN | 49.1 | 78.1 | 64.2 | F | 25.1 | 7.2 | MPH |
| **6.** | May-6-2023 | 0.002 | IN | 57.7 | 77.5 | 67.1 | F | 31.5 | 9.2 | MPH |
| **7.** | May-7-2023 | 0.03 | IN | 60.8 | 79.7 | 69.1 | F | 35.1 | 9.2 | MPH |
| **8.** | May-8-2023 | 0.003 | IN | 58.3 | 75.9 | 66.9 | F | 20.8 | 6.7 | MPH |
| **9.** | May-9-2023 | 0 | IN | 54 | 75.2 | 64 | F | 16.8 | 5.4 | MPH |
| **10.** | May-10-2023 | 0 | IN | 52.9 | 78.3 | 65.8 | F | 17.2 | 3.1 | MPH |
| **11.** | May-11-2023 | 0 | IN | 53 | 81.4 | 67.94 | F | 16.1 | 1.8 | MPH |
| **12.** | May-12-2023 | 0.001 | IN | 63.4 | 79 | 70.76 | F | 17 | 0.9 | MPH |
| **13.** | May-13-2023 | 0.007 | IN | 66.5 | 80 | 72.06 | F | 12 | 1.2 | MPH |
| **14.** | May-14-2023 | 0.023 | IN | 58.7 | 72.8 | 65.19 | F | 16 | 4.8 | MPH |
| **15.** | May-15-2023 | 0.002 | IN | 54.3 | 71.8 | 61.5 | F | 13 | 2.1 | MPH |
| **16.** | May-16-2023 | 0.001 | IN | 53.9 | 71.4 | 62.06 | F | 12 | 0.9 | MPH |
| **17.** | May-17-2023 | 0 | IN | 49.9 | 70.2 | 60.7 | F | 14 | 2.3 | MPH |
| **18.** | May-18-2023 | 0 | IN | 44 | 74 | 59.75 | F | 11 | 2.2 | MPH |
| **19.** | May-19-2023 | 0.045 | IN | 57.1 | 79.6 | 64.84 | F | 25 | 1.5 | MPH |
| **20.** | May-20-2023 | 0 | IN | 47.6 | 66.3 | 57.57 | F | 11 | 0 | MPH |
| **21.** | May-21-2023 | 0 | IN | 44.3 | 78 | 62.38 | F | 8 | 0.3 | MPH |
| **22.** | May-22-2023 | 0 | IN | 51.1 | 80 | 67.15 | F | 9 | 0.2 | MPH |
| **23.** | May-23-2023 | 0 | IN | 56.7 | 82 | 70.38 | F | 9 | 0.3 | MPH |
| **24.** | May-24-2023 | 0 | IN | 54.4 | 82.9 | 70.73 | F | 15 | 1 | MPH |
| **25.** | May-25-2023 | 0 | IN | 48.4 | 68.3 | 59.7 | F | 17 | 5.9 | MPH |
| **26.** | May-26-2023 | 0 | IN | 46.8 | 75 | 61.24 | F | 17 | 4 | MPH |
| **27.** | May-27-2023 | 0 | IN | 47.2 | 77 | 64.85 | F | 16 | 2.5 | MPH |
| **28.** | May-28-2023 | 0 | IN | 57.6 | 79.6 | 68.81 | F | 13 | 0.5 | MPH |
| **29.** | May-29-2023 | 0 | IN | 56.4 | 84.6 | 71.88 | F | 11 | 0.6 | MPH |
| **30.** | May-30-2023 | 0 | IN | 58.7 | 87.1 | 75.14 | F | 14 | 1.3 | MPH |
| **31.** | May-31-2023 | 0 | IN | 65.4 | 87.7 | 77.14 | F | 11 | 0.6 | MPH |
| **32.** | Jun-1-2023 | 0 | IN | 64.6 | 89.2 | 77.42 | F | 17 | 1.6 | MPH |
| **33.** | Jun-2-2023 | 0 | IN | 61 | 89.9 | 76.83 | F | 15 | 1.3 | MPH |
| **34.** | Jun-3-2023 | 0 | IN | 63.1 | 89.9 | 78.15 | F | 11 | 1.2 | MPH |
| **35.** | Jun-4-2023 | 0 | IN | 63.5 | 82 | 73.54 | F | 12 | 2.5 | MPH |
| **36.** | Jun-5-2023 | 0 | IN | 54.1 | 78.8 | 67.66 | F | 12 | 1.6 | MPH |
| **37.** | Jun-6-2023 | 0 | IN | 53.7 | 85.5 | 69.23 | F | 17 | 0.1 | MPH |
| **38.** | Jun-7-2023 | 0 | IN | 59.1 | 76.2 | 67.27 | F | 14 | 1 | MPH |
| **39.** | Jun-8-2023 | 0 | IN | 45.9 | 76.6 | 62.87 | F | 10 | 0.6 | MPH |
| **40.** | Jun-9-2023 | 0 | IN | 44.6 | 79.3 | 64.11 | F | 11 | 0.2 | MPH |
| **41.** | Jun-10-2023 | 0 | IN | 56.5 | 84.1 | 71.38 | F | 15 | 1.3 | MPH |

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**Residual Weed Control in Soybean with Xtendimax Herbicide Combinations**

Trial ID: 23-MGS-Soy-05
Protocol ID: 23-MGS-Soy-05 Location: Trial Year: 2023
Study Director: Dr. Bill Johnson Sponsor Contact: John Schramski

Investigator: Dr. Bill Johnson

**Application Description**

| | A |
|---|---|
| **Date** | May-5-2023 |
| **Start Time** | 5:39 PM |
| **Stop Time** | 6:13 PM |
| **Method** | SPRAY |
| **Timing** | PRE |
| **Placement** | BROSOI |
| **Applied By** | M. ZIMMER |
| **Entry Date** | May-24-2023 |
| **Air Temperature Start, Stop** | 82, 82 F |
| **% Relative Humidity Start, Stop** | 32, 32 |
| **Wind Velocity+Dir. Start** | 3 MPH, S |
| **Wind Velocity+Dir. Stop** | 4.2 MPH, SW |
| **Wind Velocity+Dir. Max** | 6.1 MPH, S |
| **Wet Leaves (Y/N)** | N, no |
| **Soil Temperature** | 75 F |
| **Soil Moisture** | NORMAL |
| **% Cloud Cover** | 10 |

**Crop Stage At Each Application**

| | A |
|---|---|
| **Crop 1 Code, BBCH Scale** | GLXMA, BSOY |
| **Days after Emergence** | -10 |
| **Stage Majority, Percent** | 0, - |
| **Stage Minimum, Percent** | 0, - |
| **Stage Maximum, Percent** | 0, - |
| **Height Average** | 0 IN |
| **Height Minimum, Maximum** | 0, 0 |

**Pest Stage At Each Application**

| | A |
|---|---|
| **Pest 1 Code, Type, Scale** | AMATU, W, BBCH |
| **Height Average** | 0 IN |
| **Height Minimum, Maximum** | 0, 0 |
| **Density Average** | 0 FT2 |
| **Density Minimum, Maximum** | 0, 0 |
| **Pest 2 Code, Type, Scale** | SETFA, W, BBCH |
| **Height Average** | 0 IN |
| **Height Minimum, Maximum** | 0, 0 |
| **Density Average** | 0 FT2 |
| **Density Minimum, Maximum** | 0, 0 |

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**Residual Weed Control in Soybean with Xtendimax Herbicide Combinations**

Trial ID: 23-MGS-Soy-05
Protocol ID: 23-MGS-Soy-05 Location: Trial Year: 2023
Study Director: Dr. Bill Johnson Sponsor Contact: John Schramski

Investigator: Dr. Bill Johnson

**Application Equipment**

| | A |
|---|---|
| **Equipment Name** | CO2 BACKPACK |
| **Equipment Type** | BACSPR |
| **Operation Pressure** | 34 PSI |
| **Nozzle Model** | TTI |
| **Nozzle Type** | TEEJAI |
| **Nozzle TradeName** | TEEJET |
| **Nozzle Tip Size, Color** | 110015, GREEN |
| **Nozzle Spacing** | 20 IN |
| **Boom Length** | 6.67 FT |
| **Ground Speed** | 3 MPH |
| **Carrier** | WATER |
| **Application Amount** | 15 GAL/AC |
| **Mix Overage** | 75.6 mL |
| **Mix Size** | 1119.0 mL |
| **Propellant** | COMCO2 |

**Notes**

| No. | Context | Date | By | Notes |
|---|---|---|---|---|
| **1.** | STATUS | Mar-30-2023 | Dr. Bill Johnson | Automatically added by ARM: Trial Status updated to 'S' during trial creation. |
| **2.** | STATUS | May-23-2023 | Dr. Bryan Young | Automatically added by ARM: Status changed to: E: changed by (EINYOB). |
| **3.** | STATUS | May-23-2023 | Dr. Bryan Young | Automatically added by ARM: Trial Status updated to 'E' when Rating Date entered. |

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**Residual Weed Control in Soybean with Xtendimax Herbicide Combinations**

Trial ID: 23-MGS-Soy-05
Protocol ID: 23-MGS-Soy-05 Location: Trial Year: 2023
Study Director: Dr. Bill Johnson Sponsor Contact: John Schramski

Investigator: Dr. Bill Johnson

| Trt No. | Treatment Name | Rate | Rate Unit | Appl Code | 1* | 2* | 4* | 6* |
|---|---|---|---|---|---|---|---|---|
| | Assessed By | | | | Marcelo Zimmer | Marcelo Zimmer | Marcelo Zimmer | Marcelo Zimmer |
| | Rating Date | | | | May-19-2023 | May-19-2023 | May-26-2023 | Jun-10-2023 |
| | Part Rated | | | | PLOT, P | PLOT, P | PLOT, P | PLOT, P |
| | Rating Type | | | | PHYGEN | CONTRO | CONTRO | CONTRO |
| | Rating Unit | | | | % | % | % | % |
| | Rating Min/Max/Interval | | | | 0, 100, - | 0, 100, - | 0, 100, - | 0, 100, - |
| | Crop Type, Code | | | | C, GLXMA | C, GLXMA | C, GLXMA | C, GLXMA |
| | Crop Scientific Name | | | | Glycine max | Glycine max | Glycine max | Glycine max |
| | Crop Name | | | | Soybean | Soybean | Soybean | Soybean |
| | Pest Type | | | | | W, Weed | W, Weed | W, Weed |
| | Pest Code | | | | | AMATA | AMATA | AMATA |
| | Pest Scientific Name | | | | | Amaranthus x ta> | Amaranthus x ta> | Amaranthus x ta> |
| | Pest Name | | | | | common water he> | common water he> | common water he> |
| | Rating Timing | | | | 14 DA-A | 14 DA-A | 21 DA-A | 35 DA-A |
| | ARM Action Codes | | | | EC | EC | EC | EC |
| 1 | NONTREATED | | | | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 | WARRANT | 48 | fl oz/a | A | 2.5 cd | 100.0 a | 100.0 a | 91.3 abc |
| | MAULER | 8 | fl oz/a | A | | | | |
| 3 | WARRANT | 48 | fl oz/a | A | 1.3 cd | 72.5 b | 81.3 b | 77.5 d |
| 4 | WARRANT ULTRA | 50 | fl oz/a | A | 8.8 b | 100.0 a | 100.0 a | 87.5 bc |
| 5 | WARRANT | 48 | fl oz/a | A | 3.8 cd | 100.0 a | 100.0 a | 90.0 abc |
| | MAULER | 8 | fl oz/a | A | | | | |
| | XTENDIMAX | 22 | fl oz/a | A | | | | |
| | VAPORGRIP XTRA AGENT | 20 | fl oz/a | A | | | | |
| 6 | WARRANT | 48 | fl oz/a | A | 5.0 bc | 98.8 a | 99.5 a | 86.3 c |
| | XTENDIMAX | 22 | fl oz/a | A | | | | |
| | VAPORGRIP XTRA AGENT | 20 | fl oz/a | A | | | | |
| 7 | WARRANT ULTRA | 50 | fl oz/a | A | 3.8 cd | 100.0 a | 100.0 a | 92.5 abc |
| | INTACT | 0.5 | % v/v | A | | | | |
| | XTENDIMAX | 22 | fl oz/a | A | | | | |
| | VAPORGRIP XTRA AGENT | 20 | fl oz/a | A | | | | |
| 8 | XTENDIMAX | 22 | fl oz/a | A | 0.0 d | 62.5 c | 53.8 c | 40.0 e |
| | VAPORGRIP XTRA AGENT | 20 | fl oz/a | A | | | | |
| 9 | FIERCE XLT | 4.5 | oz/a | A | 17.5 a | 100.0 a | 100.0 a | 94.5 a |
| 10 | FIERCE XLT | 4.5 | oz/a | A | 15.0 a | 100.0 a | 100.0 a | 94.0 ab |
| | XTENDIMAX | 22 | fl oz/a | A | | | | |
| | VAPORGRIP XTRA AGENT | 20 | fl oz/a | A | | | | |
| | LSD P=.05 | | | | 4.92 | 7.46 | 3.87 | 6.83 |
| | Standard Deviation | | | | 3.37 | 5.11 | 2.65 | 4.68 |
| | CV | | | | 52.71 | 5.52 | 2.86 | 5.59 |
| | Levene's Prob(F) | | | | 0.465 | 0.00* | 0.064 | 0.968 |
| | P(Shapiro-Wilk)^ | | | | 0.7743 | 0.0004* | 0.0* | 0.7725 |
| | P(Skewness)^ | | | | 0.805 | 0.3534 | 0.0013* | 0.6926 |
| | P(Kurtosis)^ | | | | 0.7633 | 0.0* | 0.0* | 0.6648 |
| | Replicate F | | | | 0.082 | 1.796 | 1.015 | 1.273 |
| | Replicate Prob(F) | | | | 0.9694 | 0.1748 | 0.4034 | 0.3061 |
| | Treatment F | | | | 13.286 | 32.044 | 142.972 | 53.993 |
| | Treatment Prob(F) | | | | 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
^Calculated from residual.

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Trial ID: 23-MGS-Soy-05
Protocol ID: 23-MGS-Soy-05 Location: Trial Year: 2023
Study Director: Dr. Bill Johnson Sponsor Contact: John Schramski

Investigator: Dr. Bill Johnson

| Trt No. | Treatment Name | Rate | Rate Unit | Appl Code | 3* | 5* | 7* |
|---|---|---|---|---|---|---|---|
| | Assessed By | | | | Marcelo Zimmer | Marcelo Zimmer | Marcelo Zimmer |
| | Rating Date | | | | May-19-2023 | May-26-2023 | Jun-10-2023 |
| | Part Rated | | | | PLOT, P | PLOT, P | PLOT, P |
| | Rating Type | | | | CONTRO | CONTRO | CONTRO |
| | Rating Unit | | | | % | % | % |
| | Rating Min/Max/Interval | | | | 0, 100, - | 0, 100, - | 0, 100, - |
| | Crop Type, Code | | | | C, GLXMA | C, GLXMA | C, GLXMA |
| | Crop Scientific Name | | | | Glycine max | Glycine max | Glycine max |
| | Crop Name | | | | Soybean | Soybean | Soybean |
| | Pest Type | | | | W, Weed | W, Weed | W, Weed |
| | Pest Code | | | | SETFA | SETFA | SETFA |
| | Pest Scientific Name | | | | Setaria faberi | Setaria faberi | Setaria faberi |
| | Pest Name | | | | Giant foxtail | Giant foxtail | Giant foxtail |
| | Rating Timing | | | | 14 DA-A | 21 DA-A | 35 DA-A |
| | ARM Action Codes | | | | EC | EC | EC |
| 1 | NONTREATED | | | | 0.0 | 0.0 | 0.0 |
| 2 | WARRANT | 48 | fl oz/a | A | 95.0 a | 93.8 ab | 73.8 bc |
| | MAULER | 8 | fl oz/a | A | | | |
| 3 | WARRANT | 48 | fl oz/a | A | 75.0 b | 81.3 c | 62.5 c |
| 4 | WARRANT ULTRA | 50 | fl oz/a | A | 100.0 a | 100.0 a | 83.8 ab |
| 5 | WARRANT | 48 | fl oz/a | A | 100.0 a | 98.8 a | 84.5 ab |
| | MAULER | 8 | fl oz/a | A | | | |
| | XTENDIMAX | 22 | fl oz/a | A | | | |
| | VAPORGRIP XTRA AGENT | 20 | fl oz/a | A | | | |
| 6 | WARRANT | 48 | fl oz/a | A | 91.3 ab | 90.0 b | 78.8 b |
| | XTENDIMAX | 22 | fl oz/a | A | | | |
| | VAPORGRIP XTRA AGENT | 20 | fl oz/a | A | | | |
| 7 | WARRANT ULTRA | 50 | fl oz/a | A | 100.0 a | 98.8 a | 85.8 ab |
| | INTACT | 0.5 | % v/v | A | | | |
| | XTENDIMAX | 22 | fl oz/a | A | | | |
| | VAPORGRIP XTRA AGENT | 20 | fl oz/a | A | | | |
| 8 | XTENDIMAX | 22 | fl oz/a | A | 15.0 c | 0.0 d | 0.0 d |
| | VAPORGRIP XTRA AGENT | 20 | fl oz/a | A | | | |
| 9 | FIERCE XLT | 4.5 | oz/a | A | 100.0 a | 100.0 a | 96.0 a |
| 10 | FIERCE XLT | 4.5 | oz/a | A | 100.0 a | 100.0 a | 96.0 a |
| | XTENDIMAX | 22 | fl oz/a | A | | | |
| | VAPORGRIP XTRA AGENT | 20 | fl oz/a | A | | | |
| | LSD P=.05 | | | | 17.85 | 8.43 | 14.58 |
| | Standard Deviation | | | | 12.23 | 5.77 | 9.99 |
| | CV | | | | 14.18 | 6.81 | 13.61 |
| | Levene's Prob(F) | | | | 0.749 | 0.137 | 0.642 |
| | P(Shapiro-Wilk)^ | | | | 0.0048* | 0.0011* | 0.0373* |
| | P(Skewness)^ | | | | 0.0075* | 0.0399* | 0.0325* |
| | P(Kurtosis)^ | | | | 0.0* | 0.0021* | 0.0069* |
| | Replicate F | | | | 1.961 | 0.750 | 3.806 |
| | Replicate Prob(F) | | | | 0.1467 | 0.5331 | 0.0231 |
| | Treatment F | | | | 20.898 | 125.896 | 34.744 |
| | Treatment Prob(F) | | | | 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
^Calculated from residual.

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Study Director: Dr. Bill Johnson Sponsor Contact: John Schramski

Investigator: Dr. Bill Johnson

Assessed By
Marcelo Zimmer = MZ
Part Rated
PLOT = plot
P = Pest is Part Rated
Rating Type
PHYGEN = phytotoxicity - general / injury
CONTRO = control / burndown or knockdown
Rating Unit
%, 0, 100, = percent
Crop Type, Code
C = EPPO species (Bayer) codes
GLXMA, BSOY, Glycine max, Soybean = US
Pest Type
W, Weed = Weed or volunteer crop
Pest Code
AMATA, Amaranthus x tamariscinus, common water hemp = US
SETFA, Setaria faberi, Giant foxtail = US
Rating Timing
14 DA-A = 14 Days After Application A
ARM Action Codes
EC = Do not analyze untreated check, while still reporting treatment mean on AOV Means Table