Purdue Weed Science

Weed Control Programs in No-till Soybean

Trial ID: 23-MGS-Soy-07
Protocol ID: 23-MGS-Soy-07 Location: Meigs Trial Year: 2023
Study Director: Dr. Bill Johnson Sponsor Contact: Brock Waggoneer

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: Apr-17-2023
Initiation Date: Apr-27-2023 **Planned Completion Date:** Oct-15-2023

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

Latitude of LL Corner °: 40.270157 N
Longitude of LL Corner °: -86.881802 W

Regulations
Conducted Under GLP: No
Conducted Under GEP: No

Materials and Methods

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:** 47906
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:** 47906
Role: SPONSR sponsor
Sponsor: Brock Waggoneer
Organization: Helm
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
Role: SPONSR sponsor
Contact Name 5: Eric Ott
Organization: Valent

Crop Description
Crop 1: C GLXMA Glycine max Soybean
Entry Date: May-25-2023 **Stage Scale:** BBCH
Variety: Stine 29EB62
Attributes: Glyphosate-R, Glufosinate-R, 2,4-D-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:** ERICA Erigeron canadensis **Entry Date:** May-25-2023
Common Name: mare's-tail **Stage Scale:** BBCH
Attributes: Glyphosate-R

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Site and Design
Treated Plot Width: 6.67 FT
Treated Plot Length: 30 FT
Treated Plot Area: 200.1 FT2
Replications: 4 **Treatments:** 7 **Plots:** 28
Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: NOTILL no-till
Study Design: RACOBL Randomized Complete Block (RCB)

Soil Description
Description Name: MEIGS-S5
% Sand: 27 **% OM:** 2.4 **Texture:** SIL silt loam
% Silt: 52 **Soil Name:** Starks-Fincastle Complex
% Clay: 21 **Fert. Level:** G good
pH: 7.1 **CEC:** 9.3

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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42.	Jun-11-2023	0.03	IN	56.1	68.3	63.16	F	11	0.3	MPH
43.	Jun-12-2023	0	IN	51.5	67.7	58.29	F	15	0.7	MPH
44.	Jun-13-2023	0.001	IN	55	68.6	60.74	F	16	2.4	MPH
45.	Jun-14-2023	0.002	IN	56.9	76.7	66.76	F	7	0	MPH
46.	Jun-15-2023	0	IN	57.6	84.2	70.06	F	16	1.8	MPH
47.	Jun-16-2023	0	IN	50.8	71.7	60.86	F	13	0.4	MPH
48.	Jun-17-2023	0	IN	50.7	80.9	66.2	F	7	0	MPH
49.	Jun-18-2023	0	IN	57.3	82.5	70.7	F	15	1.2	MPH
50.	Jun-19-2023	0	IN	65.6	84	74.05	F	17	3.3	MPH
51.	Jun-20-2023	0	IN	63.8	86.9	74.64	F	22	4.4	MPH
52.	Jun-21-2023	0	IN	64.4	86	75.4	F	18	5.1	MPH
53.	Jun-22-2023	0	IN	61.1	81.1	71.33	F	16	2.4	MPH
54.	Jun-23-2023	0	IN	64.7	82.4	72.52	F	7	0	MPH
55.	Jun-24-2023	0	IN	59.3	89.2	75.93	F	8	0.2	MPH
56.	Jun-25-2023	0.046	IN	66.8	87.6	76.75	F	24	2.8	MPH
57.	Jun-26-2023	0	IN	65.4	74.7	70.53	F	26	4.3	MPH
58.	Jun-27-2023	0	IN	60.4	75.3	66.32	F	7	0.1	MPH
59.	Jun-28-2023	0	IN	52.6	79.7	66.17	F	12	0.4	MPH
60.	Jun-29-2023	0.032	IN	63.7	82.9	69.49	F	30	1.3	MPH
61.	Jun-30-2023	0	IN	62.4	83.8	73.03	F	13	0.6	MPH

Application Description

	A	B
Date	Apr-27-2023	Jun-17-2023
Start Time	10:18 AM	2:58 PM
Stop Time	10:39 AM	3:11 PM
Method	SPRAY	SPRAY
Timing	BURNDOWN	POST
Placement	BROFOL	BROFOL
Applied By	M. ZIMMER	M. ZIMMER
Entry Date	May-25-2023	Jun-18-2023
Air Temperature Start, Stop	51, 51 F	79, 79 F
% Relative Humidity Start, Stop	49, 49	36, 36
Wind Velocity+Dir. Start	7 MPH, ESE	2 MPH, SE
Wind Velocity+Dir. Stop	5 MPH, ESE	2 MPH, SE
Wind Velocity+Dir. Max	8 MPH, ESE	3 MPH, SE
Wet Leaves (Y/N)	N, no	N, no
Soil Temperature	50 F	87 F
Soil Moisture	NORMAL	DRY
% Cloud Cover	80	15

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale	GLXMA, BSOY	GLXMA, BSOY
Days after Emergence	-18	33
Stage Majority, Percent	00, -	V3, -
Stage Minimum, Percent	00, -	V3, -
Stage Maximum, Percent	00, -	V4, -
Height Average	0 IN	7 IN
Height Minimum, Maximum	0, 0	6, 8

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Investigator: Dr. Bill Johnson

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale	ERICA, W, BBCH	ERICA, W, BBCH
Height Average	3 IN	12 IN
Height Minimum, Maximum	2, 3	6, 26
Density Average	8 FT2	6 FT2
Density Minimum, Maximum	1, 15	0, 12

Application Equipment

	A	B
Equipment Name	CO2 BACKPACK	CO2 BACKPACK
Equipment Type	BACSPR	BACSPR
Operation Pressure	34 PSI	17 PSI
Nozzle Model	TT	XR
Nozzle Type	TEEJTU	FLAFXR
Nozzle TradeName	TEEJET	TEEJET
Nozzle Tip Size, Color	110015, GREEN	8002, YELLOW
Nozzle Spacing	20.0 IN	20.0 IN
Boom Length	6.67 FT	6.67 FT
Ground Speed	3 MPH	3 MPH
Application Amount	15 GAL/AC	15 GAL/AC
Mix Overage	75.7 mL	75.7 mL
Mix Size	1119.0 mL	1119.0 mL
Propellant	COMCO2	COMCO2

Notes

Context	Date	By	Notes
STATUS	Apr-17-2023	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	May-23-2023	Dr. Bryan Young	Automatically added by ARM: Status changed to: E: changed by (EINYOB).
STATUS	May-23-2023	Dr. Bryan Young	Automatically added by ARM: Trial Status updated to 'E' when Rating Date entered.

Instructions:
1. Apply burndown treatments 7 to 14 days before planting.
2. Evaluations: wc/photos at 7, 14, and 21 DA-A; wc prior to POST and 14 DA-B.

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Study Director: Dr. Bill Johnson Sponsor Contact: Brock Waggoneer

Investigator: Dr. Bill Johnson

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	1*	2*	3*	4*
	Assessed By				Claudia Bland	Claudia Bland	Claudia Bland	Claudia Bland
	Rating Date				May-4-2023	May-12-2023	May-18-2023	Jun-17-2023
	Part Rated				PLOT, P	PLOT, P	PLOT, P	PLOT, P
	Rating Type				CONTRO	CONTRO	CONTRO	CONTRO
	Rating Unit/Min/Max				%, 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 Code				ERICA	ERICA	ERICA	ERICA
	Pest Scientific Name				Erigeron canade>	Erigeron canade>	Erigeron canade>	Erigeron canade>
	Pest Name				mare's-tail	mare's-tail	mare's-tail	mare's-tail
	Rating Timing				7 DA-A	14 DA-A	21 DA-A	AT POST
	ARM Action Codes				EC	EC	EC	EC
1	NONTREATED				0.0	0.0	0.0	0.0
2	REVITON	1	fl oz/a	A	92.5 a	86.8 ab	89.5 ab	82.0 ab
	ROUNDUP POWERMAX 3	20.5	fl oz/a	A				
	HELMET MTZ	2.5	pt/a	A				
	AMSOL	8.5	lb ai/100 gal	A				
	HELM MSO	1	% v/v	A				
	PERPETUO	6	fl oz/a	B				
	COBRA	12.5	fl oz/a	B				
	SELECT MAX	12	fl oz/a	B				
	PRIME OIL	1	% v/v	B				
3	REVITON	1	fl oz/a	A	75.0 b	68.8 c	71.3 c	56.3 c
	ROUNDUP POWERMAX 3	20.5	fl oz/a	A				
	ZONE ELITE	32	fl oz/a	A				
	AMSOL	8.5	lb ai/100 gal	A				
	HELM MSO	1	% v/v	A				
	PERPETUO	6	fl oz/a	B				
	COBRA	12.5	fl oz/a	B				
	SELECT MAX	12	fl oz/a	B				
	PRIME OIL	1	% v/v	B				
4	REVITON	1	fl oz/a	A	88.8 a	96.0 a	96.8 a	96.5 a
	ROUNDUP POWERMAX 3	20.5	fl oz/a	A				
	HELMET MTZ	2.5	pt/a	A				
	LOW VOL 4 2,4-D	1	pt/a	A				
	AMSOL	8.5	lb ai/100 gal	A				
	HELM MSO	1	% v/v	A				
	PERPETUO	6	fl oz/a	B				
	COBRA	12.5	fl oz/a	B				
	SELECT MAX	12	fl oz/a	B				
	PRIME OIL	1	% v/v	B				
5	FIERCE EZ	6	fl oz/a	A	67.5 b	81.3 b	85.0 b	72.5 bc
	WEEDONE LV4	1	pt/a	A				
	ROUNDUP POWERMAX 3	20.5	fl oz/a	A				
	PERPETUO	6	fl oz/a	B				
	COBRA	12.5	fl oz/a	B				
	SELECT MAX	12	fl oz/a	B				
	PRIME OIL	1	% v/v	B				
6	FIERCE MTZ	16	fl oz/a	A	70.0 b	83.8 b	87.8 ab	78.8 b
	WEEDONE LV4	1	pt/a	A				
	ROUNDUP POWERMAX 3	20.5	fl oz/a	A				
	PERPETUO	6	fl oz/a	B				
	COBRA	12.5	fl oz/a	B				
	SELECT MAX	12	fl oz/a	B				
	PRIME OIL	1	% v/v	B				

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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Investigator: Dr. Bill Johnson

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	1*	2*	3*	4*
	Assessed By				Claudia Bland	Claudia Bland	Claudia Bland	Claudia Bland
	Rating Date				May-4-2023	May-12-2023	May-18-2023	Jun-17-2023
	Part Rated				PLOT, P	PLOT, P	PLOT, P	PLOT, P
	Rating Type				CONTRO	CONTRO	CONTRO	CONTRO
	Rating Unit/Min/Max				%, 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 Code				ERICA	ERICA	ERICA	ERICA
	Pest Scientific Name				Erigeron canade>	Erigeron canade>	Erigeron canade>	Erigeron canade>
	Pest Name				mare's-tail	mare's-tail	mare's-tail	mare's-tail
	Rating Timing				7 DA-A	14 DA-A	21 DA-A	AT POST
	ARM Action Codes				EC	EC	EC	EC
7	FIERCE XLT	4	oz/a	A	52.5 c	83.8 b	90.0 ab	80.0 ab
	WEEDONE LV4	1	pt/a	A				
	ROUNDUP POWERMAX 3	20.5	fl oz/a	A				
	PERPETUO	6	fl oz/a	B				
	COBRA	12.5	fl oz/a	B				
	SELECT MAX	12	fl oz/a	B				
	PRIME OIL	1	% v/v	B				
	LSD P=.05				13.33	10.78	10.15	17.18
	Standard Deviation				8.85	7.16	6.74	11.40
	CV				11.89	8.58	7.77	14.68
	Levene's Prob(F)				0.576	0.609	0.85	0.138
	P(Shapiro-Wilk)^				0.0653	0.6858	0.8086	0.7494
	P(Skewness)^				0.0489*	0.3046	0.687	0.8159
	P(Kurtosis)^				0.0023*	0.3448	0.5148	0.5458
	Replicate F				0.297	0.689	1.296	1.278
	Replicate Prob(F)				0.8268	0.5728	0.3122	0.3177
	Treatment F				11.044	6.086	6.388	5.328
	Treatment Prob(F)				0.0001	0.0029	0.0023	0.0052

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Assessed By	Claudia Bland
Rating Date	Jun-30-2023
Part Rated	PLOT, P
Rating Type	CONTRO
Rating Unit/Min/Max	%, 0, 100
Crop Type, Code	C, GLXMA
Crop Scientific Name	Glycine max
Crop Name	Soybean
Pest Code	ERICA
Pest Scientific Name	Erigeron canade>
Pest Name	mare's-tail
Rating Timing	14 DA-B
ARM Action Codes	EC

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	5*
1	NONTREATED				0.0
2	REVITON	1	fl oz/a	A	78.3 ab
	ROUNDUP POWERMAX 3	20.5	fl oz/a	A	
	HELMET MTZ	2.5	pt/a	A	
	AMSOL	8.5	lb ai/100 gal	A	
	HELM MSO	1	% v/v	A	
	PERPETUO	6	fl oz/a	B	
	COBRA	12.5	fl oz/a	B	
	SELECT MAX	12	fl oz/a	B	
	PRIME OIL	1	% v/v	B	
3	REVITON	1	fl oz/a	A	52.5 c
	ROUNDUP POWERMAX 3	20.5	fl oz/a	A	
	ZONE ELITE	32	fl oz/a	A	
	AMSOL	8.5	lb ai/100 gal	A	
	HELM MSO	1	% v/v	A	
	PERPETUO	6	fl oz/a	B	
	COBRA	12.5	fl oz/a	B	
	SELECT MAX	12	fl oz/a	B	
	PRIME OIL	1	% v/v	B	
4	REVITON	1	fl oz/a	A	94.5 a
	ROUNDUP POWERMAX 3	20.5	fl oz/a	A	
	HELMET MTZ	2.5	pt/a	A	
	LOW VOL 4 2,4-D	1	pt/a	A	
	AMSOL	8.5	lb ai/100 gal	A	
	HELM MSO	1	% v/v	A	
	PERPETUO	6	fl oz/a	B	
	COBRA	12.5	fl oz/a	B	
	SELECT MAX	12	fl oz/a	B	
	PRIME OIL	1	% v/v	B	
5	FIERCE EZ	6	fl oz/a	A	63.8 bc
	WEEDONE LV4	1	pt/a	A	
	ROUNDUP POWERMAX 3	20.5	fl oz/a	A	
	PERPETUO	6	fl oz/a	B	
	COBRA	12.5	fl oz/a	B	
	SELECT MAX	12	fl oz/a	B	
	PRIME OIL	1	% v/v	B	
6	FIERCE MTZ	16	fl oz/a	A	73.8 b
	WEEDONE LV4	1	pt/a	A	
	ROUNDUP POWERMAX 3	20.5	fl oz/a	A	
	PERPETUO	6	fl oz/a	B	
	COBRA	12.5	fl oz/a	B	
	SELECT MAX	12	fl oz/a	B	
	PRIME OIL	1	% v/v	B	

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Assessed By	Claudia Bland
Rating Date	Jun-30-2023
Part Rated	PLOT, P
Rating Type	CONTRO
Rating Unit/Min/Max	%, 0, 100
Crop Type, Code	C, GLXMA
Crop Scientific Name	Glycine max
Crop Name	Soybean
Pest Code	ERICA
Pest Scientific Name	Erigeron canade>
Pest Name	mare's-tail
Rating Timing	14 DA-B
ARM Action Codes	EC

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	5*
7	FIERCE XLT	4	oz/a	A	75.8 ab
	WEEDONE LV4	1	pt/a	A	
	ROUNDUP POWERMAX 3	20.5	fl oz/a	A	
	PERPETUO	6	fl oz/a	B	
	COBRA	12.5	fl oz/a	B	
	SELECT MAX	12	fl oz/a	B	
	PRIME OIL	1	% v/v	B	

LSD P=.05	19.37
Standard Deviation	12.85
CV	17.58
Levene's Prob(F)	0.017*
P(Shapiro-Wilk)^	0.8532
P(Skewness)^	0.7997
P(Kurtosis)^	0.6104
Replicate F	1.191
Replicate Prob(F)	0.3468
Treatment F	4.862
Treatment Prob(F)	0.0077

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.

Purdue Weed Science

Weed Control Programs in No-till Soybean

Trial ID: 23-MGS-Soy-07
Protocol ID: 23-MGS-Soy-07 Location: Meigs Trial Year: 2023
Study Director: Dr. Bill Johnson Sponsor Contact: Brock Waggoneer

Investigator: Dr. Bill Johnson

Part Rated
PLOT = plot
P = Pest is Part Rated
Rating Type
CONTRO = control / burndown or knockdown
Rating Unit/Min/Max
%, 0, 100 = percent
Crop Type, Code
C = EPPO species (Bayer) codes
GLXMA, BSOY, Glycine max, Soybean = US
Pest Code
ERICA, Erigeron canadensis, mare's-tail = US
Rating Timing
7 DA-A = 7 Days After Application A
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