

Purdue Weed Science

Trial ID: 20S-MGS-SOY-10	Location: Lafayette	Soybean Showcase
Protocol ID: 20S-MGS-SOY-10	Investigator (Creator): Dr. Bill Johnson	Trial Year: 2020
Project ID:	Study Director: Brent Mansfield	
	Sponsor Contact: UPL-Ryan Henry	

General Trial Information
Study Director: Brent Mansfield **Title:** Research Associate
Investigator: Dr. Bill Johnson **Title:** Professor

Discipline: H herbicide
Trial Status: E established **Trial Reliability:** 1 usable data
ARM Trial Created On: 12/8/2020
Initiation Date: 5/24/2020

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

Latitude of LL Corner °: 40.2712695 N
Longitude of LL Corner °: -86.8806855 W

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Role: STYDIR study director
Study Director: Brent Mansfield **Title:** Research Associate
Organization: Purdue University
Address 1: 915 W. State Street
Country: USA United States **E-mail:** brentmansfield@purdue.edu
City: West Lafayette, 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, IN **Postal Code:** 47907

Role: SPONSR sponsor
Sponsor: UPL-Ryan Henry
Role: OTHSPO other sponsor
Contact Name 5: UPL - Ryan Henry

Crop Description
Crop 1: C GLXMA Glycine max Soybean **BBCH Scale:** BSOY
Entry Date: 12/8/2020 **Stage Scale:** BBCH
Variety: Stine 32EA12
Attributes: Glyphosate-R and 2,4-D-R
Planting Date: 5/24/2020 **Planting Rate:** 387790 S/ha
Depth: 4.5 cm
Rows per Plot: 4 **Planting Method:** PLANTD planted
Row Spacing: 76 cm **Planting Equipment:** PP plot planter
Soil Temperature: 89 F **Soil Moisture:** SLIWET slightly wet, moist

Pest Description

Pest 1 Type: W **Code:** AMATA *Amaranthus x tamariscinus* **Entry Date:** 12/8/2020
Common Name: Common waterhemp **Stage Scale:** BBCH

Pest 2 Type: W **Code:** ABUTH *Abutilon theophrasti* **Entry Date:** 12/8/2020
Common Name: velvetleaf **Stage Scale:** BBCH

Pest 3 Type: W **Code:** SIDSP *Sida spinosa* **Entry Date:** 12/8/2020
Common Name: Prickly sida **Stage Scale:** BBCH

Site and Design
Treated Plot Width: 6.67 FT **Site Type:** FIELD field
Treated Plot Length: 25 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 166.75 FT2 **Treatments:** 6 **Tillage Type:** NOTILL no-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)

Soil Description
Description Name: Starks-Fincastle complex
% Sand: 21 **% OM:** 2.2 **Texture:** SIL silt loam
% Silt: 54 **pH:** 6.8
% Clay: 25 **CEC:** 8.3

No.	Date	Moisture Total	Unit
1.	5/2/2020	0.025	CM
2.	5/3/2020	0.585	CM
3.	5/5/2020	0.481	CM
4.	5/6/2020	0.025	CM
5.	5/10/2020	0.101	CM
6.	5/14/2020	0.405	CM
7.	5/15/2020	0.279	CM
8.	5/17/2020	1.497	CM
9.	5/18/2020	0.914	CM
10.	5/19/2020	0.684	CM
11.	5/23/2020	0.178	CM
12.	5/27/2020	0.025	CM
13.	5/28/2020	0.331	CM
14.	6/4/2020	0.33	CM
15.	6/9/2020	0.787	CM
16.	6/20/2020	0.025	CM
17.	6/21/2020	0.075	CM
18.	6/22/2020	0.711	CM
19.	6/23/2020	0.203	CM
20.	6/27/2020	2.769	CM
21.	6/28/2020	0.229	CM
22.	6/29/2020	0.076	CM
23.	6/30/2020	1.829	CM
24.	7/10/2020	0.05	CM
25.	7/11/2020	0.914	CM
26.	7/12/2020	0.66	CM
27.	7/15/2020	0.127	CM
28.	7/16/2020	0.456	CM
29.	7/19/2020	0.051	CM
30.	7/21/2020	1.423	CM
31.	7/22/2020	0.329	CM
32.	7/23/2020	0.178	CM
33.	7/27/2020	1.295	CM
34.	7/30/2020	1.599	CM

Application Description		
	A	B
Application Date	5/26/2020	7/20/2020
Appl. Start Time	11:42 AM	2:00 PM
Appl. Stop Time	11:53 AM	2:30 PM
Interval to Prev. Appl.		55 DAYS
Application Method	SPRAY	SPRAY
Application Timing	A	B
Application Placement	BROFOL	BROFOL
Applied By	M. ZIMMER	B. MANSFIELD
Appl. Entry Date	12/8/2020	12/8/2020
Air Temperature Start, Stop	82, 82 F	81, 81 F
% Relative Humidity Start, Stop	62, 62	60, 60
Wind Velocity+Dir. Start	0.6 MPH, S	4 MPH, WNW
Wind Velocity+Dir. Max	0.6 MPH, S	7 MPH, WNW
Wet Leaves (Y/N)	N, no	N, no
Soil Temperature	81 F	79 F
Soil Moisture	NORMAL	NORMAL
% Cloud Cover	95	49

Crop Stage At Each Application		
	A	B
Crop 1 Code, BBCH Scale	GLXMA, BSOY	GLXMA, BSOY
Stage Majority, Percent	00, -	60, -
Stage Minimum, Percent	00, -	60, -
Stage Maximum, Percent	00, -	61, -
Height Average	0 IN	20 IN
Height Minimum, Maximum	0, 0	16, 22

Pest Stage At Each Application		
	A	B
Pest 1 Code, Type, Scale	AMATA, W, BBCH	AMATA, W, BBCH
Stage Majority, Percent	0, -	16, -
Stage Minimum, Percent	0, -	12, -
Stage Maximum, Percent	0, -	18, -
Height Average	0 IN	0.5 IN
Height Minimum, Maximum	0, 0	0.25, 2
Density Average	0 FT2	3 FT2
Density Minimum, Maximum	0, 0	0, 15
Pest 2 Code, Type, Scale	ABUTH, W, BBCH	ABUTH, W, BBCH
Stage Majority, Percent	0, -	18, -
Stage Minimum, Percent	0, -	14, -
Stage Maximum, Percent	0, -	18, -
Height Average	0 IN	8 IN
Height Minimum, Maximum	0, 0	6, 8
Density Average	0 FT2	0.5 FT2
Density Minimum, Maximum	0, 0	0, 0.5
Pest 3 Code, Type, Scale	SIDSP, W, BBCH	SIDSP, W, BBCH
Stage Majority, Percent	0, -	18, -
Stage Minimum, Percent	0, -	16, -
Stage Maximum, Percent	0, -	18, -
Height Average	0 IN	2 IN
Height Minimum, Maximum	0, 0	0.5, 3
Density Average	0 FT2	2 FT2
Density Minimum, Maximum	0, 0	0.25, 5

Application Equipment		
	A	B
Appl. Equipment	CO2 BACKPACK	CO2 BACKPACK
Equipment Type	BACSPR	BACSPR
Operation Pressure	27 PSI	45 PSI
Nozzle Model	XR8002	TT110015
Nozzle Type	FLAFXR	TEEJTU
Nozzle Spacing	20.0 IN	20.0 IN
Nozzles/Row	4.0	4.0
Boom Length	6.67 FT	6.67 FT
Boom Height	17.0 IN	38.0 IN
Ground Speed	3 MPH	3 MPH
Carrier	WATER	WATER
Application Amount	15 GAL/AC	15 GAL/AC
Mix Overage	0 mL	0 mL
Mix Size	945.0 mL	945.0 mL
Propellant	COMCO2	COMCO2

Treatment Appl. Comments	
Trt No	Treatment Application Comment
4	Did not application B because did not have enough Intermoc product

Notes			
Context	Date	By	Notes
STATUS	5/26/2020	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
APPLIC	12/8/2020	Dr. Bill Johnson	Application B was delayed up to R1 growth stage due to low weed emergence.

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Project ID:	Study Director: Brent Mansfield	
Sponsor Contact: UPL-Ryan Henry		

		W, Weed AMATA Amaranthus x ta> Common waterhemp	W, Weed ABUTH Abutilon theoph> velvetleaf	W, Weed SIDSP Sida spinosa Prickly sida	W, Weed AMATA Amaranthus x ta> Common waterhemp		
Pest Type							
Pest Code							
Pest Scientific Name							
Pest Name							
Crop Type, Code	C, GLXMA	C, GLXMA	C, GLXMA	C, GLXMA	C, GLXMA		
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max		
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean		
Rating Date	6/9/2020	6/9/2020	6/9/2020	6/9/2020	6/24/2020		
Part Rated	PLANT, C	PLANT, P	PLANT, P	PLANT, P	PLANT, P		
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		
Assessed By	B. Mansfield	B. Mansfield	B. Mansfield	B. Mansfield	B. Mansfield		
Data Entry Date	12/8/2020	12/8/2020	12/8/2020	12/8/2020	12/8/2020		
Rating Timing	14 DAA	14 DAA	14 DAA	14 DAA	29 DAA		
Days After First/Last Applic.	14, 14	14, 14	14, 14	14, 14	29, 29		
Trt-Eval Interval		14 DA-A	14 DA-A	14 DA-A	29 DA-A		
Plant-Eval Interval	16 DP-1	16 DP-1	16 DP-1	16 DP-1	31 DP-1		
Trt Treatment No. Name	Rate Unit	Appl Code	1	2	3	4	5
1 UNTREATED CHECK			0.0	0.0	0.0	0.0	0.0
2 TRIPZIN ZC	44 FL OZ/A A		0.0 -	100.0 -	100.0 -	100.0 -	100.0 -
INTERLINE	32 FL OZ/A B						
MOCCASIN II PLUS	1 PT/A B						
AMSOL	2.5 % V/V B						
3 MOCCASIN MTZ	42 FL OZ/A A		0.0 -	100.0 -	100.0 -	100.0 -	100.0 -
INTERLINE	32 FL OZ/A B						
MOCCASIN II PLUS	1 PT/A B						
AMSOL	2.5 % V/V B						
4 MOCCASIN MTZ	42 FL OZ/A A		0.0 -	100.0 -	100.0 -	100.0 -	100.0 -
INTERMOC	64 FL OZ/A B						
AMSOL	2.5 % V/V B						
5 TRICOR	5.33 OZ/A A		0.0 -	100.0 -	100.0 -	100.0 -	100.0 -
INTERLINE	32 FL OZ/A B						
MOCCASIN II PLUS	1 PT/A B						
AMSOL	2.5 % V/V B						
6 TRICOR	8 OZ/A A		0.0 -	100.0 -	100.0 -	100.0 -	100.0 -
INTERLINE	32 FL OZ/A B						
MOCCASIN II PLUS	1 PT/A B						
AMSOL	2.5 % V/V B						
LSD P=.05			.	.	.	.	.
Standard Deviation	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CV	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grand Mean	0.00	100.00	100.00	100.00	100.00	100.00	100.00
Levene's F^	.	.	.	.	.	.	.
Levene's Prob(F)	.	.	.	.	.	.	.
Rank X2	.	.	.	.	.	.	.
P(Rank X2)	.	.	.	.	.	.	.
Skewness^	.	.	.	.	.	.	.
Kurtosis^	.	.	.	.	.	.	.
Replicate F	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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.
 Untreated treatment(s) 1 excluded from analysis.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,7,8,12,14,16,18,19,20 because error mean square = 0.
 ^Calculated from residual.

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed		
Pest Code	ABUTH	SIDSP	AMATA	ABUTH	SIDSP		
Pest Scientific Name	Abutilon theoph>	Sida spinosa	Amaranthus x ta>	Abutilon theoph>	Sida spinosa		
Pest Name	velvetleaf	Prickly sida	Common waterhemp	velvetleaf	Prickly sida		
Crop Type, Code	C, GLXMA	C, GLXMA	C, GLXMA	C, GLXMA	C, GLXMA		
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max		
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean		
Rating Date	6/24/2020	6/24/2020	7/20/2020	7/20/2020	7/20/2020		
Part Rated	PLANT, P	PLANT, P	PLANT, P	PLANT, P	PLANT, P		
Rating Type	CONTRO	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		
Assessed By	B. Mansfield	B. Mansfield	B. Mansfield	B. Mansfield	B. Mansfield		
Data Entry Date	12/8/2020	12/8/2020	12/8/2020	12/8/2020	12/8/2020		
Rating Timing	29 DAA	29 DAA	0 DAB	0 DAB	0 DAB		
Days After First/Last Applic.	29, 29	29, 29	55, 55	55, 55	55, 55		
Trt-Eval Interval	29 DA-A	29 DA-A	55 DA-A	55 DA-A	55 DA-A		
Plant-Eval Interval	31 DP-1	31 DP-1	57 DP-1	57 DP-1	57 DP-1		
Trt Treatment No. Name	Rate Unit	Appl Code	6	7	8	9	10
1 UNTREATED CHECK	0.0	0.0	0.0	0.0	0.0	0.0	
2 TRIPZIN ZC INTERLINE MOCCASIN II PLUS AMSOL	44 FL OZ/A A 32 FL OZ/A B 1 PT/A B 2.5 % V/V B	97.5 a	100.0 -	100.0 -	95.0 -	100.0 -	
3 MOCCASIN MTZ INTERLINE MOCCASIN II PLUS AMSOL	42 FL OZ/A A 32 FL OZ/A B 1 PT/A B 2.5 % V/V B	86.3 ab	100.0 -	100.0 -	82.5 -	97.5 -	
4 MOCCASIN MTZ INTERMOC AMSOL	42 FL OZ/A A 64 FL OZ/A B 2.5 % V/V B	92.5 a	100.0 -	100.0 -	87.5 -	93.8 -	
5 TRICOR INTERLINE MOCCASIN II PLUS AMSOL	5.33 OZ/A A 32 FL OZ/A B 1 PT/A B 2.5 % V/V B	76.3 b	100.0 -	100.0 -	73.8 -	100.0 -	
6 TRICOR INTERLINE MOCCASIN II PLUS AMSOL	8 OZ/A A 32 FL OZ/A B 1 PT/A B 2.5 % V/V B	100.0 a	100.0 -	100.0 -	100.0 -	100.0 -	
LSD P=.05	14.70	.	.	17.65	5.26		
Standard Deviation	9.54	0.00	0.00	11.46	3.42		
CV	10.54	0.0	0.0	13.06	3.48		
Grand Mean	90.50	100.00	100.00	87.75	98.25		
Levene's F^	0.263	.	.	0.693	1.70		
Levene's Prob(F)	0.897	.	.	0.608	0.202		
Rank X2	.	.	.	.	.
P(Rank X2)	.	.	.	.	.
Skewness^	0.2952	.	.	0.276	-0.4276		
Kurtosis^	-0.7956	.	.	-0.5538	3.0773*		
Replicate F	4.741	0.000	0.000	3.540	0.107		
Replicate Prob(F)	0.0210	1.0000	1.0000	0.0482	0.9543		
Treatment F	4.002	0.000	0.000	3.248	2.571		
Treatment Prob(F)	0.0274	1.0000	1.0000	0.0505	0.0919		

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

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Untreated treatment(s) 1 excluded from analysis.

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^Calculated from residual.

Pest Type	W, Weed	W, Weed	W, Weed		W, Weed
Pest Code	AMATA	ABUTH	SIDSP		AMATA
Pest Scientific Name	Amaranthus x ta>	Abutilon theoph>	Sida spinosa		Amaranthus x ta>
Pest Name	Common waterhemp	velvetleaf	Prickly sida		Common waterhemp
Crop Type, Code	C, GLXMA	C, GLXMA	C, GLXMA	C, GLXMA	C, GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean
Rating Date	7/27/2020	7/27/2020	7/27/2020	8/4/2020	8/4/2020
Part Rated	PLANT, P	PLANT, P	PLANT, P	PLANT, C	PLANT, P
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Number of Subsamples	1	1	1	1	1
Assessed By	B. Mansfield	B. Mansfield	B. Mansfield	B. Mansfield	B. Mansfield
Data Entry Date	12/8/2020	12/8/2020	12/8/2020	12/8/2020	12/8/2020
Rating Timing	7 DAB	7 DAB	7 DAB	15 DAB	15 DAB
Days After First/Last Applic.	62, 7	62, 7	62, 7	70, 15	70, 15
Trt-Eval Interval	62 DA-A	62 DA-A	62 DA-A		70 DA-A
Plant-Eval Interval	64 DP-1	64 DP-1	64 DP-1	72 DP-1	72 DP-1
Trt Treatment					
No. Name	11	12	13	14	15
Rate					
Rate Unit					
Appl Code					
1 UNTREATED CHECK	0.0	0.0	0.0	0.0	0.0
2 TRIPZIN ZC	44 FL OZ/A A				
INTERLINE	32 FL OZ/A B				
MOCCASIN II PLUS	1 PT/A B				
AMSOL	2.5 % V/V B				
3 MOCCASIN MTZ	42 FL OZ/A A				
INTERLINE	32 FL OZ/A B				
MOCCASIN II PLUS	1 PT/A B				
AMSOL	2.5 % V/V B				
4 MOCCASIN MTZ	42 FL OZ/A A				
INTERMOC	64 FL OZ/A B				
AMSOL	2.5 % V/V B				
5 TRICOR	5.33 OZ/A A				
INTERLINE	32 FL OZ/A B				
MOCCASIN II PLUS	1 PT/A B				
AMSOL	2.5 % V/V B				
6 TRICOR	8 OZ/A A				
INTERLINE	32 FL OZ/A B				
MOCCASIN II PLUS	1 PT/A B				
AMSOL	2.5 % V/V B				
LSD P=.05	4.00	.	6.00	.	4.00
Standard Deviation	2.50	0.00	3.75	0.00	2.50
CV	2.52	0.0	3.79	0.0	2.52
Grand Mean	99.38	100.00	99.06	0.00	99.38
Levene's F^	0.333	.	0.333	.	0.333
Levene's Prob(F)	0.802	.	0.802	.	0.802
Rank X2	.	.	.	.	.
P(Rank X2)	.	.	.	.	.
Skewness^	-1.4754*	.	-1.4754*	.	-1.4754*
Kurtosis^	3.9194*	.	3.9194*	.	3.9194*
Replicate F	1.000	0.000	1.000	0.000	1.000
Replicate Prob(F)	0.4363	1.0000	0.4363	1.0000	0.4363
Treatment F	1.000	0.000	1.000	0.000	1.000
Treatment Prob(F)	0.4363	1.0000	0.4363	1.0000	0.4363

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

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Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,7,8,12,14,16,18,19,20 because error mean square = 0.

^Calculated from residual.

Trt No.	Treatment Name	Rate	Unit	Appl Code	16	17	18	19	20
1	UNTREATED CHECK				0.0	0.0	0.0	0.0	0.0
2	TRIPZIN ZC INTERLINE MOCCASIN II PLUS AMSOL	44 FL OZ/A 32 FL OZ/A 1 PT/A 2.5 % V/V	A B B B		100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
3	MOCCASIN MTZ INTERLINE MOCCASIN II PLUS AMSOL	42 FL OZ/A 32 FL OZ/A 1 PT/A 2.5 % V/V	A B B B		100.0 -	97.5 -	100.0 -	100.0 -	100.0 -
4	MOCCASIN MTZ INTERMOC AMSOL	42 FL OZ/A 64 FL OZ/A 2.5 % V/V	A B B						
5	TRICOR INTERLINE MOCCASIN II PLUS AMSOL	5.33 OZ/A 32 FL OZ/A 1 PT/A 2.5 % V/V	A B B B		100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
6	TRICOR INTERLINE MOCCASIN II PLUS AMSOL	8 OZ/A 32 FL OZ/A 1 PT/A 2.5 % V/V	A B B B		100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
LSD	P=.05				.	4.00	.	.	.
	Standard Deviation				0.00	2.50	0.00	0.00	0.00
	CV				0.0	2.52	0.0	0.0	0.0
	Grand Mean				100.00	99.38	100.00	100.00	100.00
	Levene's F^				.	0.333	.	.	.
	Levene's Prob(F)				.	0.802	.	.	.
	Rank X2				.	.	.	.	.
	P(Rank X2)				.	.	.	.	.
	Skewness^				.	-1.4754*	.	.	.
	Kurtosis^				.	3.9194*	.	.	.
	Replicate F				0.000	1.000	0.000	0.000	0.000
	Replicate Prob(F)				1.0000	0.4363	1.0000	1.0000	1.0000
	Treatment F				0.000	1.000	0.000	0.000	0.000
	Treatment Prob(F)				1.0000	0.4363	1.0000	1.0000	1.0000

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Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,7,8,12,14,16,18,19,20 because error mean square = 0.
^Calculated from residual.

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<p><u>Pest Type</u> W, Weed = Weed or volunteer crop</p> <p><u>Pest Code</u> AMATA, Amaranthus x tamariscinus, Common waterhemp = US ABUTH, Abutilon theophrasti, velvetleaf = US SIDSP, Sida spinosa, Prickly sida = US</p> <p><u>Crop Type, Code</u> C = EPPO species (Bayer) codes GLXMA, BSOY, Glycine max, Soybean = US</p> <p><u>Part Rated</u> PLANT = plant C = Crop is Part Rated P = Pest is Part Rated</p> <p><u>Rating Type</u> PHYGEN = phytotoxicity - general / injury CONTRO = control / burndown or knockdown</p> <p><u>Rating Unit/Min/Max</u> %, 0, 100 = percent</p> <p><u>Plant-Eval Interval</u> 16 DP-1 = 1 GLXMA 5/24/2020 31 DP-1 = 1 GLXMA 5/24/2020 57 DP-1 = 1 GLXMA 5/24/2020 64 DP-1 = 1 GLXMA 5/24/2020 72 DP-1 = 1 GLXMA 5/24/2020 78 DP-1 = 1 GLXMA 5/24/2020</p>
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