

Purdue Weed Science

BAS842 in Xtendflex Conventional Till Soybean

Trial ID: FieldBookUpdate-23-TPAC-Soy-02
 Protocol ID: 23-TPAC-Soy-02 Location: TPAC Trial Year: 2023
 Study Director: Dr. Bill Johnson Sponsor Contact: Gery Welker

Investigator: Dr. Bill Johnson

General Trial Information

Study Director: Dr. Bill Johnson **Title:** Professor
Investigator: Dr. Bill Johnson **Title:** Professor

Discipline: H herbicide
Status: F one-year/final

ARM Trial Created On: Jun-19-2023 **Meets All Objectives:** Y **Reliability:** GOOD good quality
Initiation Date: May-18-2023 **Planned Completion Date:** Oct-15-2023
Completion Date: Jul-13-2024

Trial Location

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

Latitude of LL Corner °: 40.2918 N
Longitude of LL Corner °: -86.90681 W

Regulations

Conducted Under GLP: No
Conducted Under GEP: No

Objectives:

Show the flexibility and performance of BAS842 in an XtendFlex, conventional soybean system

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
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
Role: SPONSR sponsor
Sponsor: Gery Welker
Organization: BASF
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

Crop Description

Crop 1: C GLXMA Glycine max Soybean
Entry Date: Mar-16-2023 **Stage Scale:** BBCH
Variety: AG29XF1
Attributes: Glyphosate-R, Glufosinate-R, and Dicamba-R
Planting Date: May-18-2023 **Planting Rate:** 140000 S/A
Depth: 1.5 IN
Rows per Plot: 8 **Planting Method:** PLANTD planted
Row Spacing: 15 IN **Planting Equipment:** PP plot planter
Emergence Date: May-31-2023

Pest Description

Pest 1 Type: W **Code:** AMBTR Ambrosia trifida **Entry Date:** Jun-16-2023
Common Name: Giant ragweed **Stage Scale:** BBCH
Attributes: ALS-R

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 300.0 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Treatments:** 12 **Plots:** 48 **Study Design:** RACOB� Randomized Complete Block (RCB)

Trial Initiation Comments:

The trial area was weed-free at soybean planting.

Soil Description**Description Name:** TPAC - Field 4 BE

% Sand: 21	% OM: 3.4	Texture: SIL	silt loam
% Silt: 54	Soil Name: Toronto-Millbrook Complex		
% Clay: 25	Fert. Level: G good		

pH: 5.8 **CEC:** 13.5**Soil Drainage:** G good**Weather Conditions****Overall Moisture Conditions:** DRY dry **Irrigation Type:** RAIN rain**Weather Station Name:** TPAC MESONET **Distance:** 0.5 MI

No.	Date	Moisture Total	Unit	Min Temp	Max Temp	Avg Temp	Temp Unit	Max Wind	Avg Wind	Unit	Avg Soil Temp	Unit
1.	May-15-2023	0.04	IN	55	75.6	63.1	F	15	3.6	MPH	64.2	F
2.	May-16-2023	0.01	IN	55.8	73.8	62.8	F	16.8	3.1	MPH	64.2	F
3.	May-17-2023	0	IN	50.7	72.7	61.3	F	17.9	5.4	MPH	63.9	F
4.	May-18-2023	0	IN	45.3	77.4	61.9	F	15	2.9	MPH	63.1	F
5.	May-19-2023	0.59	IN	55.8	83.1	65.8	F	30.4	7.6	MPH	63.3	F
6.	May-20-2023	0	IN	48.7	67.1	58.1	F	19	3.8	MPH	63.7	F
7.	May-21-2023	0	IN	45.9	81.1	64.2	F	14.3	1.1	MPH	63.9	F
8.	May-22-2023	0	IN	52.3	84	69.6	F	11.9	0.9	MPH	65.7	F
9.	May-23-2023	0	IN	55.8	86.2	72.3	F	15.4	1.3	MPH	67.1	F
10.	May-24-2023	0	IN	55.4	86.2	72.9	F	22.6	5.4	MPH	67.6	F
11.	May-25-2023	0	IN	48.9	71.6	59.7	F	23.3	9.2	MPH	65.1	F
12.	May-26-2023	0	IN	46.4	77	62.4	F	22.6	4.5	MPH	64.4	F
13.	May-27-2023	0	IN	48	78.4	65.8	F	7.2	0	MPH	64.2	F
14.	May-28-2023	0	IN	57.4	83.1	71.1	F	4.3	0	MPH	66.4	F
15.	Aug-29-2023	0	IN	57.7	88.7	74.8	F	6.5	0	MPH	69.1	F
16.	May-30-2023	0	IN	60.6	91	77.2	F	15.4	0.7	MPH	69.8	F
17.	May-31-2023	0	IN	66.4	90.7	78.3	F	20.4	3.6	MPH	71.6	F
18.	Jun-1-2023	0	IN	63.5	92.1	78.8	F	17.2	2.5	MPH	73.6	F
19.	Jun-2-2023	0	IN	61.9	92.3	79.3	F	13.2	0.7	MPH	74.5	F
20.	Jun-3-2023	0	IN	65.3	93.7	80.2	F	16.1	1.8	MPH	75.4	F
21.	Jun-4-2023	0	IN	64	84.4	74.3	F	17.9	6.5	MPH	75.4	F
22.	Jun-5-2023	0	IN	54.5	83.1	69.6	F	13.2	0	MPH	71.8	F
23.	Jun-6-2023	0	IN	54.3	88.3	71.1	F	7.2	0	MPH	71.6	F
24.	Jun-7-2023	0	IN	54.3	80.1	68.5	F	16.1	1.3	MPH	73.4	F
25.	Jun-8-2023	0	IN	46.9	80.2	64.9	F	1.8	0	MPH	72	F
26.	Jun-9-2023	0	IN	46.9	82	67.1	F	7.2	0	MPH	72.1	F
27.	Jun-10-2023	0	IN	55.2	86.5	72.7	F	13.2	0	MPH	74.1	F
28.	Jun-11-2023	0.38	IN	55.2	69.4	63.5	F	22.6	4	MPH	70.3	F
29.	Jun-12-2023	0	IN	54	69.1	62.8	F	25.1	5.6	MPH	70.5	F
30.	Jun-13-2023	0.05	IN	55.6	70.7	62.4	F	18.8	7.8	MPH	65.3	F
31.	Jun-14-2023	0	IN	59.4	78.8	68.4	F	14.1	2.9	MPH	68.9	F
32.	Jun-15-2023	0	IN	57.7	87.1	71.4	F	19.9	7.2	MPH	70.9	F
33.	Jun-16-2023	0	IN	51.3	75.6	62.6	F	14.1	4.3	MPH	69.3	F
34.	Jun-17-2023	0	IN	51.4	84.2	68.7	F	12.1	2.5	MPH	70.9	F
35.	Jun-18-2023	0	IN	57.9	86.4	72.7	F	18.1	4.5	MPH	73.4	F
36.	Jun-19-2023	0	IN	69.1	86.5	79.9	F	22.4	6.9	MPH	76.8	F
37.	Jun-20-2023	0	IN	65.5	89.4	76.1	F	27.1	8.9	MPH	76.8	F
38.	Jun-21-2023	0	IN	64.8	88.7	76.6	F	23.9	7.4	MPH	78.1	F
39.	Jun-22-2023	0	IN	63.5	83.7	73	F	21.5	5.4	MPH	77.9	F
40.	Jun-23-2023	0	IN	66.6	85.8	74.3	F	11.2	2.5	MPH	77.2	F
41.	Jun-24-2023	0	IN	60.6	91.6	77.5	F	15	3.6	MPH	77.7	F
42.	Jun-25-2023	0.93	IN	67.8	88.9	77.9	F	36	10.1	MPH	76.8	F
43.	Jun-26-2023	0	IN	66	77	71.1	F	26.6	8.9	MPH	72.9	F
44.	Jun-27-2023	0	IN	60.4	76.8	67.5	F	14.5	4	MPH	70.9	F
45.	Jun-28-2023	0	IN	53.8	82.8	68.5	F	17	2.5	MPH	70.9	F
46.	Jun-29-2023	0.38	IN	64.9	84.9	70.9	F	44.7	7.4	MPH	71.8	F

47.	Jun-30-2023	0	IN	62.8	86	75	F	21	3.6	MPH	73.4	F
48.	Jul-1-2023	0.45	IN	69.4	87.6	75.7	F	31.3	5.1	MPH	76.1	F
49.	Jul-2-2023	0.65	IN	66	83.3	73.6	F	28.6	6.9	MPH	75.7	F
50.	Jul-3-2023	0	IN	65.8	87.8	75	F	14.5	4.7	MPH	76.3	F
51.	Jul-4-2023	0	IN	65.1	90.9	77.9	F	14.1	2.9	MPH	78.1	F
52.	Jul-5-2023	0.01	IN	68.4	89.6	78.6	F	25.1	5.1	MPH	79.3	F
53.	Jul-6-2023	0.01	IN	68.4	84.2	74.8	F	16.6	3.8	MPH	78.6	F
54.	Jul-7-2023	0	IN	60.6	84	73.4	F	11.4	2.7	MPH	77.7	F
55.	Jul-8-2023	0.75	IN	61.5	76.3	68.5	F	17.7	3.1	MPH	75.6	F
56.	Jul-9-2023	0	IN	57	82.2	69.4	F	11.6	2.2	MPH	74.5	F
57.	Jul-10-2023	0	IN	58.8	82.2	71.6	F	12.5	4	MPH	75.4	F
58.	Jul-11-2023	0	IN	62.6	85.1	74.5	F	21.3	7.2	MPH	75.6	F
59.	Jul-12-2023	0	IN	69.1	86.4	76.8	F	23	6.3	MPH	76.3	F
60.	Jul-13-2023	0	IN	64	80	71	F	10.1	2.9	MPH	75.4	F

Application Description

	A	B	C	D
Date	May-18-2023	Jun-8-2023	Jun-8-2023	Jun-28-2024
Start Time	6:45 PM	10:53 AM	9:49 AM	6:00 PM
Stop Time	7:00 PM	10:55 AM	10:01 AM	6:06 PM
Method	SPRAY	SPRAY	SPRAY	SPRAY
Timing	PRE	V1/V2 SOY	V1/V2 SOY	V3-V5
Placement	BROSOI	BROFOL	BROFOL	BROFOL
Applied By	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER
Entry Date	Jun-16-2023	Jun-16-2023	Jun-16-2023	Mar-13-2024
Air Temperature Start, Stop	78.9, 78.9 F	68, 68 F	64, 64 F	82, 82 F
% Relative Humidity Start, Stop	23.4, 23.4	32, 32	40, 40	55, 55
Wind Velocity+Dir. Start	0.8 MPH, E	3 MPH, E	2.8 MPH, E	1 MPH, SE
Wind Velocity+Dir. Stop	0.8 MPH, E	3 MPH, E	2.8 MPH, E	1 MPH, SE
Wind Velocity+Dir. Max	3.6 MPH, E	5.5 MPH, E	3.5 MPH, E	1 MPH, SE
Wet Leaves (Y/N)	N, no	N, no	N, no	N, no
Soil Temperature	78 F	68 F	68 F	82 F
Soil Moisture	ADEQUATE	DRY	DRY	NORMAL
% Cloud Cover	0	0	0	0

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY
Days after Emergence	-13	8	8	394
Stage Majority, Percent	0, -	11, -	V1, -	15, -
Stage Minimum, Percent	0, -	11, -	VC, -	15, -
Stage Maximum, Percent	0, -	12, -	V2, -	16, -
Height Average		2 IN	2 IN	8 IN
Height Minimum, Maximum		1.5, 3	1.5, 3	7, 9

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH
Height Average	0 IN	2 IN	2 IN	10 IN
Height Minimum, Maximum	0, 0	1, 3.5	1, 3	3, 15
Density Average	0 FT2	6 FT2	6 FT2	7 FT2
Density Minimum, Maximum	0, 0	0, 10	0, 10	0, 12

Application Equipment				
	A	B	C	D
Equipment Name	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK
Equipment Type	BACSPR	BACSPR	BACSPR	BACSPR
Operation Pressure	28 PSI	28 PSI	28 PSI	28 PSI
Nozzle Model	TTI	TTI	TT	TT
Nozzle Type	TEEJAI	TEEJAI	TEEJTU	TEEJTU
Nozzle TradeName	TEEJET	TEEJET	TEEJET	TEEJET
Nozzle Tip Size, Color	110015, GREEN	110015, GREEN	11002, YELLOW	11002, YELLOW
Nozzle Spacing	15.0 IN	15.0 IN	15.0 IN	15.0 IN
Nozzles/Row	8.0	8.0	8.0	8.0
Boom Length	10.0 FT	10.0 FT	10.0 FT	10.0 FT
Ground Speed	3 MPH	3 MPH	3 MPH	3 MPH
Carrier	WATER	WATER	WATER	WATER
Application Amount	15 GAL/AC	15 GAL/AC	20 GAL/AC	20 GAL/AC
Mix Overage	236.0 mL	236.0 mL	236.0 mL	236.0 mL
Mix Size	1800.0 mL	1800.0 mL	2322.0 mL	2322 mL
Propellant	COMCO2	COMCO2	COMCO2	COMCO2

Purdue Weed Science

BAS842 in Xtendflex Conventional Till Soybean

Trial ID: 23-TPAC-Soy-02
 Protocol ID: 23-TPAC-Soy-02
 Study Director: Dr. Bill Johnson Sponsor Contact: Gery Welker

Location: TPAC Trial Year: 2023

Investigator: Dr. Bill Johnson

Assessed By	Zimmer, Marcelo	Zimmer, Marcelo	Zimmer, Marcelo	Zimmer, Marcelo	Zimmer, Marcelo		
Rating Date	Jun-1-2023	Jun-8-2023	Jun-15-2023	Jul-1-2023	Jul-13-2023		
Part Rated	PLOT, C	PLOT, C	PLOT, C	PLOT, C	PLOT, C		
Rating Type	PHYGEN	PHYGEN	PHYGEN	PHYGEN	PHYGEN		
Rating Unit	%	%	%	%	%		
Rating Min/Max/Interval	0, 100, -	0, 100, -	0, 100, -	0, 100, -	0, 100, -		
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Crop Type, Code	C, GLXMA	C, GLXMA	C, GLXMA	C, GLXMA	C, GLXMA		
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max		
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean		
Crop Variety	AG29XF1	AG29XF1	AG29XF1	AG29XF1	AG29XF1		
Pest Type							
Pest Code							
Pest Scientific Name							
Pest Name							
Rating Timing	14 DAP	21 DAP	28 DAP	42 DAP	56 DAP		
Trt Treatment No. Name	Rate	Appl	1*	3*	5*	7*	9*
Rate Unit	Code						
1 BAS842		A	0.0 a	0.0 a	0.0 d	0.0 b	0.0 a
2 ENGENIA SENTRIS ZIDUA SC	12.8 fl oz/a 8 fl oz/a 3.25 fl oz/a	A A A	0.0 a	0.0 a	0.0 d	0.0 b	0.0 a
3 ZIDUA SC	3.25 fl oz/a	A	0.0 a	0.0 a	0.0 d	0.0 b	0.0 a
4 ENGENIA SENTRIS BAS842	12.8 fl oz/a 8 fl oz/a A	A A A	0.0 a	0.0 a	0.0 d	0.0 b	0.0 a
5 VERDICT BAS842	5 fl oz/a A	A A	0.0 a	0.0 a	0.0 d	0.0 b	0.0 a
6 TRICOR BAS842	4 oz/a A	A A	0.0 a	0.0 a	0.0 d	0.0 b	0.0 a
7 ENGENIA SENTRIS BAS842 ROUNDUP POWERMAX 3 INTACT	12.8 fl oz/a 8 fl oz/a B 30 fl oz/a 0.5 % v/v	B B B B B	0.0 a	0.0 a	2.3 c	0.0 b	0.0 a
8 LIBERTY AMSOL BAS842	36 fl oz/a 1.5 lb ai/a C	C C C	0.0 a	0.0 a	3.0 c	0.0 b	0.0 a
9 PREFIX PRIME OIL LIBERTY AMSOL	32 fl oz/a 1 % v/v 36 fl oz/a 1.5 lb ai/a	C C C C	0.0 a	0.0 a	26.3 a	2.3 a	0.0 a
10 ANTHEM MAXX LIBERTY AMSOL	3.16 fl oz/a 36 fl oz/a 1.5 lb ai/a	C C C	0.0 a	0.0 a	9.5 b	1.5 a	0.0 a
11 LIBERTY AMSOL	36 fl oz/a 1.5 lb ai/a	C C	0.0 a	0.0 a	0.0 d	0.0 b	0.0 a

Means followed by same letter or symbol do not significantly differ (P=0.05, LSD).

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

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,3,9 because error mean square = 0.

^Calculated from residual.

Assessed By	Zimmer, Marcelo				
Rating Date	Jun-1-2023	Jun-8-2023	Jun-15-2023	Jul-1-2023	Jul-13-2023
Part Rated	PLOT, C				
Rating Type	PHYGEN	PHYGEN	PHYGEN	PHYGEN	PHYGEN
Rating Unit	%	%	%	%	%
Rating Min/Max/Interval	0, 100, -	0, 100, -	0, 100, -	0, 100, -	0, 100, -
Sample Size	1 PLOT				
Crop Type, Code	C, GLXMA				
Crop Scientific Name	Glycine max				
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean
Crop Variety	AG29XF1	AG29XF1	AG29XF1	AG29XF1	AG29XF1
Pest Type					
Pest Code					
Pest Scientific Name					
Pest Name					
Rating Timing	14 DAP	21 DAP	28 DAP	42 DAP	56 DAP
Trt Treatment					
No. Name					
Rate					
Unit					
Appl Code					
	1*	3*	5*	7*	9*
12 BAS842	0.0 a	0.0 a	0.0 d	0.0 b	0.0 a
LIBERTY					
OUTLOOK					
AMSOL					
LSD P=.05	.	.	2.03	0.93	.
Standard Deviation	0.00	0.00	1.41	0.64	0.00
CV	0.0	0.0	41.39	206.09	0.0
Levene's Prob(F)	.	.	0.00*	0.002*	.
P(Shapiro-Wilk)^	.	.	0.0*	0.0*	.
P(Skewness)^	.	.	0.0023*	0.0149*	.
P(Kurtosis)^	.	.	0.0*	0.0*	.
Replicate F	0.000	0.000	2.083	1.658	0.000
Replicate Prob(F)	1.0000	1.0000	0.1213	0.1951	1.0000
Treatment F	0.000	0.000	118.780	5.384	0.000
Treatment Prob(F)	1.0000	1.0000	0.0001	0.0001	1.0000

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Could not calculate LSD (% mean diff) for columns 1,3,9 because error mean square = 0.
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Assessed By			Zimmer, Marcelo					
Rating Date			Jun-1-2023	Jun-8-2023	Jun-15-2023	Jul-1-2023	Jul-13-2023	
Part Rated			PLOT, C					
Rating Type			CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	
Rating Unit			%	%	%	%	%	
Rating Min/Max/Interval			0, 100, -	0, 100, -	0, 100, -	0, 100, -	0, 100, -	
Sample Size			1 PLOT					
Crop Type, Code								
Crop Scientific Name								
Crop Name								
Crop Variety								
Pest Type			W, Weed					
Pest Code			AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	
Pest Scientific Name			Ambrosia trifida					
Pest Name			Giant ragweed					
Rating Timing			14 DAP	21 DAP	28 DAP	42 DAP	56 DAP	
Trt No.	Treatment Name	Rate Rate Unit	Appl Code	2*	4*	6*	8*	10*
1	BAS842		A	45.0 c	53.8 c	52.5 c	23.8 cd	15.0 de
2	ENGENIA SENTRIS ZIDUA SC	12.8 fl oz/a A 8 fl oz/a A 3.25 fl oz/a A	A	83.8 a	78.8 ab	69.5 bc	50.0 b	46.3 b
3	ZIDUA SC	3.25 fl oz/a A	A	5.0 d	6.3 d	22.5 d	8.8 d	0.0 e
4	ENGENIA SENTRIS BAS842	12.8 fl oz/a A 8 fl oz/a A A	A	72.5 ab	60.0 bc	53.8 c	36.3 bc	25.0 cd
5	VERDICT BAS842	5 fl oz/a A A	A	85.0 a	86.3 a	82.5 ab	55.0 b	43.8 bc
6	TRICOR BAS842	4 oz/a A A	A	57.5 bc	58.8 c	57.0 c	21.3 cd	10.0 de
7	ENGENIA SENTRIS BAS842 ROUNDUP POWERMAX 3 INTACT	12.8 fl oz/a B 8 fl oz/a B B 30 fl oz/a B 0.5 % v/v B	B	0.0 d	0.0 d	97.5 a	98.3 a	93.3 a
8	LIBERTY AMSOL BAS842	36 fl oz/a C 1.5 lb ai/a C C	C	0.0 d	0.0 d	96.3 a	92.0 a	83.8 a
9	PREFIX PRIME OIL LIBERTY AMSOL	32 fl oz/a C 1 % v/v C 36 fl oz/a C 1.5 lb ai/a C	C	0.0 d	0.0 d	98.3 a	91.5 a	88.3 a
10	ANTHEM MAXX LIBERTY AMSOL	3.16 fl oz/a C 36 fl oz/a C 1.5 lb ai/a C	C	0.0 d	0.0 d	95.8 a	87.5 a	80.8 a
11	LIBERTY AMSOL	36 fl oz/a C 1.5 lb ai/a C	C	0.0 d	0.0 d	95.3 a	88.8 a	81.3 a

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Could not calculate LSD (% mean diff) for columns 1,3,9 because error mean square = 0.
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Assessed By	Zimmer, Marcelo				
Rating Date	Jun-1-2023	Jun-8-2023	Jun-15-2023	Jul-1-2023	Jul-13-2023
Part Rated	PLOT, C				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Rating Min/Max/Interval	0, 100, -	0, 100, -	0, 100, -	0, 100, -	0, 100, -
Sample Size	1 PLOT				
Crop Type, Code					
Crop Scientific Name					
Crop Name					
Crop Variety					
Pest Type	W, Weed				
Pest Code	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Pest Scientific Name	Ambrosia trifida				
Pest Name	Giant ragweed				
Rating Timing	14 DAP	21 DAP	28 DAP	42 DAP	56 DAP
Trt Treatment					
No. Name					
Rate					
Rate Unit					
Appl Code					
	2*	4*	6*	8*	10*
12 BAS842					
LIBERTY					
OUTLOOK					
AMSOL					
	60.0 bc	65.8 bc	62.5 bc	56.3 b	91.3 a
LSD P=.05	18.05	19.00	21.52	20.25	20.36
Standard Deviation	12.54	13.21	14.96	14.08	14.15
CV	36.82	38.7	20.32	23.82	25.79
Levene's Prob(F)	0.281	0.202	0.152	0.597	0.595
P(Shapiro-Wilk)^	0.0014*	0.0034*	0.0061*	0.0084*	0.0016*
P(Skewness)^	0.1109	0.6049	0.5807	0.0048*	0.0008*
P(Kurtosis)^	0.0017*	0.0133*	0.0332*	0.0221*	0.0021*
Replicate F	0.692	0.983	1.068	1.240	1.138
Replicate Prob(F)	0.5636	0.4126	0.3762	0.3108	0.3483
Treatment F	33.578	29.122	10.719	20.547	25.077
Treatment Prob(F)	0.0001	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
Could not calculate LSD (% mean diff) for columns 1,3,9 because error mean square = 0.
^Calculated from residual.

Purdue Weed Science

BAS842 in Xtendflex Conventional Till Soybean

Trial ID: 23-TPAC-Soy-02
Protocol ID: 23-TPAC-Soy-02 Location: TPAC Trial Year: 2023
Study Director: Dr. Bill Johnson Sponsor Contact: Gery Welker

Investigator: Dr. Bill Johnson

Assessed By

Zimmer, Marcelo = Marcelo Zimmer

Part Rated

PLOT = plot

C = Crop is Part Rated

Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

Rating Unit

%, 0, 100, = percent

PLOT = total plot

Crop Type Code

C = EPP0 species (Bayer) codes

GLXMA, BSOY, Glycine max, Soybean = US

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US