

Purdue Weed Science

BALANCE GT SOYBEANS

Trial ID: 18S-MGS-Soy-10 Location: Meigs Trial Year: 2018
 Protocol ID: 18S-MGS-Soy-10 Investigator: Dr. Bill Johnson
 Project ID: HP18USAXP6UEF1 Study Director: Taylor Campbell
 Sponsor Contact: Bayer - Alan Kurtz

General Trial Information

Study Director: Taylor Campbell
Investigator: Dr. Bill Johnson

Discipline: H herbicide
Trial Status: E established

Trial Location

City: Lafayette **Country:** USA United States
State/Prov.: Indiana
Postal Code: 47909

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Taylor Campbell
Organization: Purdue University
Address: 915 W State Street
City+State/Prov: West Lafayette, IN
Postal Code: 47907
Country: USA United States

Investigator: Dr. Bill Johnson
Organization: Purdue University
Address: 915 W State Street
City+State/Prov: West Lafayette, IN
Postal Code: 47907
Country: USA United States

Cooperator/Landowner

Cooperator: Jay Young **Role:** Superintendent
Organization: Purdue University
Address 1: 8343 US 231 S
City: Lafayette **Phone No.:** 765-538-3422
State/Prov: IN **Fax No.:** 765-538-3423
Postal Code: 47909
Country: USA United States **E-mail:** jayyoung@purdue.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: FG72 x LL-MGL3172
Description: Isoxaflutole and LL Tolerant

Planting Rate, Unit: 100000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 30 IN
Soil Temperature, Unit: 78 F
Soil Moisture: DRY dry

Planting Date: 5/16/2018
Planting Method: PLANTD planted
Planting Equipment: PP plot planter
Emergence Date: 5/19/2018

Pest Description

Pest 1 Type: W **Code:** AMATA *Amaranthus tamariscinus*
Common Name: Common waterhemp

Site and Design

Treated Plot Width: 6.67 FT
Treated Plot Length: 25 FT
Treated Plot Area: 166.75 FT2 **Treatments:** 12
Replications: 4
Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: NOTILL no-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: MGS-S3
% Sand: 40.7 **% OM:** 2.3 **Texture:** L loam
% Silt: 38.6 **pH:** 6.5 **Soil Name:** Starks-Fincastle complex
% Clay: 20.7 **CEC:** 14.3 **Fert. Level:** G good

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Application Description

	A	B
Application Date:	5/17/2018	7/25/2018
Appl. Start Time:	10:00 AM	10:26 AM
Appl. Stop Time:	10:22 AM	10:42 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PREMCR	POSPOS
Application Placement:	BROADC	BROADC
Applied By:	T. Campbell	T. Campbell
Air Temperature, Unit:	80 F	74 F
% Relative Humidity:	35	79
Wind Velocity, Unit:	6 MPH	5 MPH
Wind Direction:	W	E
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	79 F	73 F
Soil Moisture:	DRY	SLIWET
% Cloud Cover:	50	98

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	BBCH	BBCH
Stage Majority, Percent:	00	13 80
Stage Minimum, Percent:		13 80
Stage Maximum, Percent:		14 20
Average Diameter, Unit:		6 IN
Height, Unit:		16 IN
Height Minimum, Maximum:		16 18

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AMATA W	AMATA W
Stage Majority, Percent:	00	14 60
Stage Minimum, Percent:		11 20
Stage Maximum, Percent:		19 20
Diameter, Unit:		3 IN
Height, Unit:		4 IN
Height Minimum, Maximum:		2 8
Density, Unit:		5 FT2

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	Sponsor Contact: Bayer - Alan Kurtz	

Application Equipment

	A	B
Appl. Equipment:	CO2 BACKPACK	CO2 BACKPACK
Equipment Type:	BACCAI	BACCAI
Operation Pressure, Unit:	28 PSI	43 PSI
Nozzle Type:	XR	AIXR
Nozzle Size:	8002	11015
Nozzle Spacing, Unit:	20 IN	20 IN
Nozzles/Row:	4	4
Boom Length, Unit:	6.7 FT	6.7 FT
Boom Height, Unit:	18 IN	25 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	945 mL	945 mL
Propellant:	COMCO2	COMCO2

Date By Notes

4/24/2018 T. Campbell Burndown 32 oz of Roundup Power Max, 1 pt of 2,4-D Shredder (ester formulation), and 2.5% v/v N-Pak AMS @ 10 gpa, 30 psi, 5 mph, and 1102 AIXR nozzle on a 4 wheeler with a 20 ft boom with 20 inch spacings

5/16/2018 T. Campbell Gramoxone sprayed morning of planting at 2 pt/a plus 1% v/v of COC @ 10 gpa, 30 psi, 5 mph, and 1102 AIXR nozzle on a 4 wheeler with a 20 ft boom with 20 inch spacings

6/7/2018 T. Campbell Evening storm brought hail and slight damage occurred at Meigs field site.

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Reps: 4 Appl Code: A Plots: 6.67 by 25 feet
 Spray vol: 15 GAL/AC Mix Size: 945 mL (total for 4 plots; minimum=869.4 mL)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Code	Amt to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
5	BALANCE BEAN TRICOR	4 LBA/GAL 75 %		SC DF	3 fl oz/a 5.33 oz/a		A	1.477 mL/mx 2.515 g/mx		105	406	603	804
6	BALANCE BEAN TRICOR	4 LBA/GAL 75 %		SC DF	3 fl oz/a 5.33 oz/a		A	1.477 mL/mx 2.515 g/mx		106	301	504	703
7	BALANCE BEAN TRICOR	4 LBA/GAL 75 %		SC DF	3 fl oz/a 5.33 oz/a		A	1.477 mL/mx 2.515 g/mx		201	305	601	705
8	BALANCE BEAN TRICOR	4 LBA/GAL 75 %		SC DF	3 fl oz/a 5.33 oz/a		A	1.477 mL/mx 2.515 g/mx		202	306	605	704
9	BALANCE BEAN TRICOR	4 LBA/GAL 75 %		SC DF	3 fl oz/a 5.33 oz/a		A	1.477 mL/mx 2.515 g/mx		203	404	606	702
10	BALANCE BEAN TRICOR	4 LBA/GAL 75 %		SC DF	3 fl oz/a 5.33 oz/a		A	1.477 mL/mx 2.515 g/mx		204	401	503	701
11	BALANCE BEAN ZIDUA	4 LBA/GAL 85 %		SC WG	3 fl oz/a 1.5 oz/a		A	1.477 mL/mx 0.7077 g/mx		205	302	602	706
12	BALANCE BEAN TRICOR	4 LBA/GAL 75 %		SC DF	2 fl oz/a 5.33 oz/a		A	0.9844 mL/mx 2.515 g/mx		206	304	506	802

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Project ID: HP18USAXP6UEF1	Study Director: Taylor Campbell	
	Sponsor Contact: Bayer - Alan Kurtz	

Reps: 4 Appl Code: B Plots: 6.67 by 25 feet
 Spray vol: 15 GAL/AC Mix Size: 945 mL (total for 4 plots; minimum=869.4 mL)

Trt No.	Treatment	Form Conc	Form Unit	Form Type	Rate	Appl Unit	Code	Amt to Measure	Rep 1	Rep 2	Rep 3	Rep 4
2	ROUNDUP POWERMAX N-PAK	4.5 LBAE/GAL 3.4 LBA/GAL		SL L	32 fl oz/a 2.5 % v/v	B B		15.75 mL/mx 23.62 mL/mx	102	405	604	801
3	LIBERTY 280 SL N-PAK	2.34 LB/GAL 3.4 LBA/GAL		SL L	32 fl oz/a 2.5 % v/v	B B		15.75 mL/mx 23.62 mL/mx	103	402	505	806
4	ROUNDUP POWERMAX LIBERTY 280 SL N-PAK	4.5 LBAE/GAL 2.34 LB/GAL 3.4 LBA/GAL		SL SL L	32 fl oz/a 32 fl oz/a 2.5 % v/v	B B B		15.75 mL/mx 15.75 mL/mx 23.62 mL/mx	104	303	501	803
5	ROUNDUP POWERMAX N-PAK	4.5 LBAE/GAL 3.4 LBA/GAL		SL L	32 fl oz/a 2.5 % v/v	B B		15.75 mL/mx 23.62 mL/mx	105	406	603	804
6	LIBERTY 280 SL N-PAK	2.34 LB/GAL 3.4 LBA/GAL		SL L	32 fl oz/a 2.5 % v/v	B B		15.75 mL/mx 23.62 mL/mx	106	301	504	703
7	LIBERTY 280 SL ROUNDUP POWERMAX N-PAK	2.34 LB/GAL 4.5 LBAE/GAL 3.4 LBA/GAL		SL SL L	32 fl oz/a 32 fl oz/a 2.5 % v/v	B B B		15.75 mL/mx 15.75 mL/mx 23.62 mL/mx	201	305	601	705
8	OUTLOOK ROUNDUP POWERMAX N-PAK	6 LB/GAL 4.5 LBAE/GAL 3.4 LBA/GAL		EC SL L	12 fl oz/a 32 fl oz/a 2.5 % v/v	B B B		5.906 mL/mx 15.75 mL/mx 23.62 mL/mx	202	306	605	704
9	OUTLOOK LIBERTY 280 SL N-PAK	6 LB/GAL 2.34 LB/GAL 3.4 LBA/GAL		EC SL L	12 fl oz/a 32 fl oz/a 2.5 % v/v	B B B		5.906 mL/mx 15.75 mL/mx 23.62 mL/mx	203	404	606	702
10	OUTLOOK LIBERTY 280 SL ROUNDUP POWERMAX N-PAK	6 LB/GAL 2.34 LB/GAL 4.5 LBAE/GAL 3.4 LBA/GAL		EC SL SL L	12 fl oz/a 32 fl oz/a 32 fl oz/a 2.5 % v/v	B B B B		5.906 mL/mx 15.75 mL/mx 15.75 mL/mx 23.62 mL/mx	204	401	503	701
11	LIBERTY 280 SL N-PAK	2.34 LB/GAL 3.4 LBA/GAL		SL L	32 fl oz/a 2.5 % v/v	B B		15.75 mL/mx 23.62 mL/mx	205	302	602	706
12	LIBERTY 280 SL N-PAK	2.34 LB/GAL 3.4 LBA/GAL		SL L	32 fl oz/a 2.5 % v/v	B B		15.75 mL/mx 23.62 mL/mx	206	304	506	802

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Protocol ID: 18S-MGS-Soy-10	Investigator: Dr. Bill Johnson	
Project ID: HP18USAXP6UEF1	Study Director: Taylor Campbell	
	Sponsor Contact: Bayer - Alan Kurtz	

Reps: 4 Appl Code: _ Plots: 6.67 by 25 feet
 Spray vol: 15 GAL/AC Mix Size: 945 mL (total for 4 plots; minimum=869.4 mL)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Appl Unit	Code	Amt Product to Measure	Rep			
									1	2	3	4
1	UNTREATED							101	403	502	805	

Sort Order: Application Code, Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
118.125	mL	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	
324.808	mL	N-PAK	3.4	LBA/GAL	L	
157.500	mL	LIBERTY 280 SL	2.34	LB/GAL	SL	
14.150	mL	BALANCE BEAN	4	LBA/GAL	SC	
22.004	g	TRICOR	75	%	DF	
22.148	mL	OUTLOOK	6	LB/GAL	EC	
0.885	g	ZIDUA	85	%	WG	

* 'Per area' calculations based on spray volume= 15 GAL/AC, mix size= 945 mL (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 945 mL.

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 Sponsor Contact: Bayer - Alan Kurtz

Pest Type			W Weed AMATA		W Weed AMATA		W Weed AMATA
Pest Code			Common waterhe>		Common waterhe>		Common waterhe>
Pest Name							
Crop Code	GLXMA			GLXMA			
Crop Name	Soybean			Soybean			
Part Rated	PLOT C		PLOT P	PLOT C		PLOT P	PLOT P
Rating Date	6/12/2018		6/12/2018	6/25/2018		6/25/2018	7/3/2018
Rating Type	PHYGEN		CONTRO	PHYGEN		CONTRO	CONTRO
Rating Unit	%		%	%		%	%
Number of Subsamples	1		1	1		1	1
Assessed By	T. Campbell		T. Campbell	T. Campbell		T. Campbell	T. Campbell
Days After First/Last Applic.	26 26		26 26	39 39		39 39	47 47
Trt-Eval Interval	26 DA-A		26 DA-A			37 DE-1	45 DE-1
Days After Emergence	24 DE-1		24 DE-1	37 DE-1		37 DE-1	45 DE-1
Number of Decimals	0		0	0		0	0
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code	1	2	3	4	5
1 UNTREATED			0	0	0	0	0
2 ROUNDUP POWERMAX N-PAK	32 fl oz/a B 2.5 % v/v B						25 e
3 LIBERTY 280 SL N-PAK	32 fl oz/a B 2.5 % v/v B						73 cd
4 ROUNDUP POWERMAX LIBERTY 280 SL N-PAK	32 fl oz/a B 32 fl oz/a B 2.5 % v/v B						64 d
5 BALANCE BEAN TRICOR ROUNDUP POWERMAX N-PAK	3 fl oz/a A 5.33 oz/a A 32 fl oz/a B 2.5 % v/v B		0 -	94 -	0 -	40 -	75 cd
6 BALANCE BEAN TRICOR LIBERTY 280 SL N-PAK	3 fl oz/a A 5.33 oz/a A 32 fl oz/a B 2.5 % v/v B		0 -	99 -	0 -	45 -	89 ab
7 BALANCE BEAN TRICOR LIBERTY 280 SL ROUNDUP POWERMAX N-PAK	3 fl oz/a A 5.33 oz/a A 32 fl oz/a B 32 fl oz/a B 2.5 % v/v B		0 -	95 -	0 -	33 -	93 a
8 BALANCE BEAN TRICOR OUTLOOK ROUNDUP POWERMAX N-PAK	3 fl oz/a A 5.33 oz/a A 12 fl oz/a B 32 fl oz/a B 2.5 % v/v B		0 -	97 -	0 -	54 -	79 bc
9 BALANCE BEAN TRICOR OUTLOOK LIBERTY 280 SL N-PAK	3 fl oz/a A 5.33 oz/a A 12 fl oz/a B 32 fl oz/a B 2.5 % v/v B		0 -	99 -	0 -	48 -	94 a
10 BALANCE BEAN TRICOR OUTLOOK LIBERTY 280 SL ROUNDUP POWERMAX N-PAK	3 fl oz/a A 5.33 oz/a A 12 fl oz/a B 32 fl oz/a B 32 fl oz/a B 2.5 % v/v B		0 -	98 -	0 -	41 -	90 ab
11 BALANCE BEAN ZIDUA LIBERTY 280 SL N-PAK	3 fl oz/a A 1.5 oz/a A 32 fl oz/a B 2.5 % v/v B		0 -	100 -	0 -	74 -	99 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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=7

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

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 Sponsor Contact: Bayer - Alan Kurtz

Pest Type		W Weed		W Weed	
Pest Code		AMATA		AMATA	
Pest Name		Common waterhe>		Common waterhe>	Common waterhe>
Crop Code	GLXMA		GLXMA		
Crop Name	Soybean		Soybean		
Part Rated	PLOT C	PLOT P	PLOT C	PLOT P	PLOT P
Rating Date	6/12/2018	6/12/2018	6/25/2018	6/25/2018	7/3/2018
Rating Type	PHYGEN	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Assessed By	T. Campbell	T. Campbell	T. Campbell	T. Campbell	T. Campbell
Days After First/Last Applic.	26 26	26 26	39 39	39 39	47 47
Trt-Eval Interval	26 DA-A	26 DA-A			
Days After Emergence	24 DE-1	24 DE-1	37 DE-1	37 DE-1	45 DE-1
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate Appl				
No. Name	Rate Unit Code	1	2	3	4
12 BALANCE BEAN	2 fl oz/a A	0 -	96 -	0 -	64 -
TRICOR	5.33 oz/a A				
LIBERTY 280 SL	32 fl oz/a B				
N-PAK	2.5 % v/v B				96 a
LSD P=.05	.	6.5	.	29.8	12.8
Standard Deviation	0.0	4.4	0.0	20.3	8.9
CV	0.0	4.54	0.0	40.78	11.15
Levene's F	0.00	1.342	0.00	1.105	2.985
Levene's Prob(F)	0.00*	0.274	0.00*	0.392	0.009*
Skewness	.	-1.8313*	.	0.2389	-1.6636*
Kurtosis	.	2.3699*	.	-0.6731	2.3089*
Replicate F	0.000	2.577	0.000	0.530	5.142
Replicate Prob(F)	1.0000	0.0810	1.0000	0.6664	0.0055
Treatment F	0.000	0.795	0.000	1.782	22.968
Treatment Prob(F)	1.0000	0.6000	1.0000	0.1442	0.0001

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Project ID: HP18USAXP6UEF1	Study Director: Taylor Campbell	
	Sponsor Contact: Bayer - Alan Kurtz	

Pest Type	W Weed	W Weed
Pest Code	AMATA	AMATA
Pest Name	Common waterhe>	Common waterhe>
Crop Code		
Crop Name		
Part Rated	PLOT P	PLOT P
Rating Date	7/9/2018	7/23/2018
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	T. Campbell	T. Campbell
Days After First/Last Applic.	53 53	67 67
Trt-Eval Interval		
Days After Emergence	51 DE-1	65 DE-1
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		6
		7
1 UNTREATED		0
2 ROUNDUP POWERMAX N-PAK	32 fl oz/a B 2.5 % v/v B	23 f
3 LIBERTY 280 SL N-PAK	32 fl oz/a B 2.5 % v/v B	74 de
4 ROUNDUP POWERMAX LIBERTY 280 SL N-PAK	32 fl oz/a B 32 fl oz/a B 2.5 % v/v B	66 e
5 BALANCE BEAN TRICOR ROUNDUP POWERMAX N-PAK	3 fl oz/a A 5.33 oz/a A 32 fl oz/a B 2.5 % v/v B	79 cd
6 BALANCE BEAN TRICOR LIBERTY 280 SL N-PAK	3 fl oz/a A 5.33 oz/a A 32 fl oz/a B 2.5 % v/v B	92 ab
7 BALANCE BEAN TRICOR LIBERTY 280 SL ROUNDUP POWERMAX N-PAK	3 fl oz/a A 5.33 oz/a A 32 fl oz/a B 32 fl oz/a B 2.5 % v/v B	90 abc
8 BALANCE BEAN TRICOR OUTLOOK ROUNDUP POWERMAX N-PAK	3 fl oz/a A 5.33 oz/a A 12 fl oz/a B 32 fl oz/a B 2.5 % v/v B	81 bcd
9 BALANCE BEAN TRICOR OUTLOOK LIBERTY 280 SL N-PAK	3 fl oz/a A 5.33 oz/a A 12 fl oz/a B 32 fl oz/a B 2.5 % v/v B	92 ab
10 BALANCE BEAN TRICOR OUTLOOK LIBERTY 280 SL ROUNDUP POWERMAX N-PAK	3 fl oz/a A 5.33 oz/a A 12 fl oz/a B 32 fl oz/a B 32 fl oz/a B 2.5 % v/v B	97 a
11 BALANCE BEAN ZIDUA LIBERTY 280 SL N-PAK	3 fl oz/a A 1.5 oz/a A 32 fl oz/a B 2.5 % v/v B	98 a

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 Untreated treatment(s) 1 excluded from analysis.
 Missing data estimates are included in columns: Yates=7
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		Sponsor Contact: Bayer - Alan Kurtz			
Pest Type		W Weed		W Weed	
Pest Code		AMATA		AMATA	
Pest Name		Common waterhe>		Common waterhe>	
Crop Code					
Crop Name					
Part Rated		PLOT P		PLOT P	
Rating Date		7/9/2018		7/23/2018	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		T. Campbell		T. Campbell	
Days After First/Last Applic.		53 53		67 67	
Trt-Eval Interval					
Days After Emergence		51 DE-1		65 DE-1	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	6	7	
12 BALANCE BEAN	2 fl oz/a A		97 a	97 a	
TRICOR	5.33 oz/a A				
LIBERTY 280 SL	32 fl oz/a B				
N-PAK	2.5 % v/v B				
LSD P=.05			12.0	11.8	
Standard Deviation			8.3	8.2	
CV			10.3	10.02	
Levene's F			2.556	3.005	
Levene's Prob(F)			0.021*	0.009*	
Skewness			-1.8772*	-1.9265*	
Kurtosis			3.1394*	3.2171*	
Replicate F			7.036	7.035	
Replicate Prob(F)			0.0010	0.0011	
Treatment F			27.696	28.715	
Treatment Prob(F)			0.0001	0.0001	

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Sponsor Contact: Bayer - Alan Kurtz

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

AMATA, Amaranthus tamariscinus, Common waterhemp = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Part Rated

PLOT = plot

C = Crop is Part Rated

P = Pest is Part Rated

Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

Rating Unit

% = percent