

Purdue Weed Science

UPI Soybean Herbicide Programs Showcase

Trial ID: 18S-TPAC-SOY-17 Location: TPAC Trial Year: 2018
 Protocol ID: 18S-TPAC-SOY-17 Investigator: Dr. Bill Johnson
 Project ID: Trzn-06-US-IN-18-22TLE Study Director: Dustin Johnson
 Sponsor Contact: T. Estes - UPI

General Trial Information

Study Director: Dustin Johnson **Title:** Research Associate
Investigator: Dr. Bill Johnson **Title:** Professor

Discipline: H herbicide
Trial Status: E established
Initiation Date: May-7-2018

Trial Location

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

Latitude of LL Corner °: 40.29208 N
Longitude of LL Corner °: 86.91135 W

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Dustin Johnson **Title:** Research Associate
Organization: Purdue University
Address: 915 W. State Street
City+State/Prov: West Lafayette, IN
Postal Code: 47907 **E-mail:** john1357@purdue.edu
Country: USA United States

Investigator: Dr. Bill Johnson **Title:** Professor
Organization: Purdue University
Address: 915 W. State Street
City+State/Prov: West Lafayette, IN
Postal Code: 47907 **E-mail:** wgj@purdue.edu
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: Becks 296L4
Description: Liberty Link

Planting Date: May-7-2018
Planting Method: PLANTD planted
Planting Equipment: PP plot planter
Emergence Date: May-23-2018

Planting Rate, Unit: 155000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 15 IN

Harvested Width, Unit: 10 FT
Harvested Length, Unit: 25 FT
% Standard Moisture: 13

Rows per Plot: 7
Soil Temperature, Unit: 72 F
Soil Moisture: DRY dry

Pest Description

Pest 1 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 2 Type: W **Code:** AMARE Amaranthus retroflexus
Common Name: Redroot pigweed

Pest 3 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

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 FT2 **Treatments:** 4 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RAOBL Randomized Complete Block (RCB)

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Field Prep/Maintenance:

6/20/18 Sprayed Interline @ 32 oz/a over trial except for untreated checks to clean up any weeds for field day.

Soil Description

Description Name: TPAC- Field 4B
% OM: 2.9 **Texture:** SIL silt loam
pH: 6.2 **Soil Name:** Toronto-Millbrook
CEC: 13.3

Application Description

	A	B
Application Date:	May-7-2018	Jun-1-2018
Appl. Start Time:	6:15 PM	12:45 PM
Appl. Stop Time:	6:25 PM	12:50 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PREPRE	POSPOS
Application Placement:	BROADC	BROADC
Applied By:	M. ZIMMER	M. ZIMMER
Air Temperature, Unit:	73 F	81 F
% Relative Humidity:	32	73
Wind Velocity, Unit:	8 MPH	3 MPH
Wind Direction:	NE	WNW
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	72 F	78 F
Soil Moisture:	DRY	WET
% Cloud Cover:	5	50

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	12
Stage Minimum, Percent:	00	12
Stage Maximum, Percent:	00	13
Height, Unit:		5.5 IN
Height Minimum, Maximum:		3 8

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	00	16
Stage Minimum, Percent:	00	10
Stage Maximum, Percent:	00	19
Height, Unit:		5 IN
Height Minimum, Maximum:		4 6
Density, Unit:		5 FT2
Pest 2 Code, Type, Scale:	AMARE W W	AMARE W
Stage Majority, Percent:	00	15
Stage Minimum, Percent:	00	10
Stage Maximum, Percent:	00	19
Height, Unit:		2 IN
Height Minimum, Maximum:		0.25 4.5
Density, Unit:		10 FT2
Pest 3 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	00	16
Stage Minimum, Percent:	00	10
Stage Maximum, Percent:	00	19
Height, Unit:		6 IN
Height Minimum, Maximum:		0.25 10
Density, Unit:		10 FT2

Application Equipment

	A	B
Appl. Equipment:	CO2 BACKPACK	CO2 BACKPACK
Equipment Type:	BACSPR	BACSPR
Operation Pressure, Unit:	29 PSI	18 PSI
Nozzle Type:	TTI	FLAFXR
Nozzle Size:	110015	XR11002
Nozzle Spacing, Unit:	15 IN	15 IN
Nozzles/Row:	8	8
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	17 IN	17 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	1.8 L	1.8 L
Propellant:	COMCO2	COMCO2

Date	By	Notes
Jun-1-2018	D. JOHNSON	Pop up shower occurred at 3:30pm after application.
Jun-8-2018	D. JOHNSON	Evening storm brought hail and damage to crop occurred.
Jun-12-2018	D. JOHNSON	Sprayed to control yellow nutsedge in plots - lost plots 304 & 404. 403 is partially damaged as well but is an untreated check.

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Reps: 4 Plots: 10 by 30 feet
 Spray vol: 15 GAL/AC Mix Size: 1.8 L (total for 4 plots; minimum=1.564 L)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Appl Code	Appl Description	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	UNTREATED CHECK								101	204	302	403
2	MOCASSIN MTZ	4.5 LB/GAL		EC	32 fl oz/a	A	AT PLANTING	30.0 mL/mx	102	203	301	404
	SCEPTER	70 %		WG	2.1 oz/a	A	AT PLANTING	1.887 g/mx				
	INTERLINE	2.34 LB/GAL		SL	32 fl oz/a	B	EPOST 2-4" WEEDS	30.0 mL/mx				
	N-PAK AMS	3.4 LBA/GAL		L	2.5 % v/v	B	EPOST 2-4" WEEDS	45.0 mL/mx				
	SELECT MAX	0.97 LB/GAL		L	6 fl oz/a	B	EPOST 2-4" WEEDS	5.625 mL/mx				
	NIS	100 %		SL	0.25 % v/v	B	EPOST 2-4" WEEDS	4.5 mL/mx				
3	MOCASSIN MTZ	4.5 LB/GAL		EC	40 fl oz/a	A	AT PLANTING	37.5 mL/mx	103	201	304	402
	SCEPTER	70 %		WG	2.1 oz/a	A	AT PLANTING	1.887 g/mx				
	INTERLINE	2.34 LB/GAL		SL	32 fl oz/a	B	EPOST 2-4" WEEDS	30.0 mL/mx				
	N-PAK AMS	3.4 LBA/GAL		L	2.5 % v/v	B	EPOST 2-4" WEEDS	45.0 mL/mx				
	SELECT MAX	0.97 LB/GAL		L	6 fl oz/a	B	EPOST 2-4" WEEDS	5.625 mL/mx				
	NIS	100 %		SL	0.25 % v/v	B	EPOST 2-4" WEEDS	4.5 mL/mx				
4	TRIPZIN ZC	4 LB/GAL		ZC	42 fl oz/a	A	AT PLANTING	39.37 mL/mx	104	202	303	401
	SCEPTER	70 %		WG	2.1 oz/a	A	AT PLANTING	1.887 g/mx				
	INTERLINE	2.34 LB/GAL		SL	32 fl oz/a	B	EPOST 2-4" WEEDS	30.0 mL/mx				
	N-PAK AMS	3.4 LBA/GAL		L	2.5 % v/v	B	EPOST 2-4" WEEDS	45.0 mL/mx				
	SELECT MAX	0.97 LB/GAL		L	6 fl oz/a	B	EPOST 2-4" WEEDS	5.625 mL/mx				
	NIS	100 %		SL	0.25 % v/v	B	EPOST 2-4" WEEDS	4.5 mL/mx				

Sort Order: Treatment

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Pest Type Pest Code Pest Name		W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail	W Weed AMARE Redroot pigweed		W Weed AMBTR Giant ragweed
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jun-1-2018	Jun-1-2018	Jun-1-2018	Jun-1-2018	Jun-15-2018	Jun-15-2018
Rating Type	PHYGEN	CONTROL	CONTRO	CONTROL	PHYGEN	CONTROL
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Assessed By	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER	D. JOHNSON	D. JOHNSON
Rating Timing	A1	A1	A1	A1	A2	A2
Days After First/Last Applic.	25 25	25 25	25 25	25 25	39 14	39 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0
Trt No.	1	2	3	4	5	6
Treatment Name						
Rate						
Appl Code						
1 UNTREATED CHECK	0	0	0	0	0	0
2 MOCASSIN MTZ	0 -	0 -	65 -	95 -	0 -	91 -
SCEPTER	32 fl oz/a A					
INTERLINE	2.1 oz/a A					
N-PAK AMS	32 fl oz/a B					
SELECT MAX	2.5 % v/v B					
NIS	6 fl oz/a B					
NIS	0.25 % v/v B					
3 MOCASSIN MTZ	0 -	0 -	81 -	99 -	0 -	91 -
SCEPTER	40 fl oz/a A					
INTERLINE	2.1 oz/a A					
N-PAK AMS	32 fl oz/a B					
SELECT MAX	2.5 % v/v B					
NIS	6 fl oz/a B					
NIS	0.25 % v/v B					
4 TRIPZIN ZC	0 -	0 -	83 -	73 -	0 -	94 -
SCEPTER	42 fl oz/a A					
INTERLINE	2.1 oz/a A					
N-PAK AMS	32 fl oz/a B					
SELECT MAX	2.5 % v/v B					
NIS	6 fl oz/a B					
NIS	0.25 % v/v B					
LSD P=.05	0.5	.	46.8	50.6	.	7.5
Standard Deviation	0.3	0.0	27.0	29.3	0.0	3.8
CV	346.41	0.0	35.46	32.97	0.0	4.14
Levene's F		0.00	1.069	1.191	0.00	0.438
Levene's Prob(F)		0.00*	0.383	0.348	0.00*	0.662
Skewness	3.4641*	.	-3.131*	-3.3174*	.	-1.0529
Kurtosis	12.0*	.	10.361*	11.248*	.	1.1686
Replicate F	1.000	0.000	0.709	0.800	0.000	0.682
Replicate Prob(F)	0.4547	1.0000	0.5808	0.5373	1.0000	0.6079
Treatment F	1.000	0.000	0.521	0.942	0.000	1.083
Treatment Prob(F)	0.4219	1.0000	0.6183	0.4409	1.0000	0.4209

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.
 Missing data estimates are included in columns: Yates=5,6,7,8,9,10,11,12,13,14,15,16,17,18,19
 Could not calculate LSD (% mean diff) for columns 2,5,7,8,9,11,13,14,15,16 because error mean square = 0.

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Pest Type Pest Code Pest Name	W Weed SETFA Giant foxtail	W Weed ECHSS Barnyardgrass	W Weed AMARE Redroot pigweed	W Weed ABUTH velvetleaf	W Weed GLXMA Soybean PHYGEN	W Weed AMBTR Giant ragweed
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jun-15-2018	Jun-15-2018	Jun-15-2018	Jun-15-2018	Jun-29-2018	Jun-29-2018
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	PHYGEN	CONTROL
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON
Rating Timing	A2	A2	A2	A2	A3	A3
Days After First/Last Applic.	39 14	39 14	39 14	39 14	53 28	53 28
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0
Trt No.	7	8	9	10	11	12
Treatment Name	1 UNTREATED CHECK					
Rate	0	0	0	0	0	0
Rate Unit						
Appl Code						
2 MOCASSIN MTZ	100 -	100 -	100 -	99 -	0 -	98 -
SCEPTER	32 fl oz/a A 2.1 oz/a A					
INTERLINE	32 fl oz/a B					
N-PAK AMS	2.5 % v/v B					
SELECT MAX	6 fl oz/a B					
NIS	0.25 % v/v B					
3 MOCASSIN MTZ	100 -	100 -	100 -	97 -	0 -	96 -
SCEPTER	40 fl oz/a A 2.1 oz/a A					
INTERLINE	32 fl oz/a B					
N-PAK AMS	2.5 % v/v B					
SELECT MAX	6 fl oz/a B					
NIS	0.25 % v/v B					
4 TRIPZIN ZC	100 -	100 -	100 -	100 -	0 -	98 -
SCEPTER	42 fl oz/a A 2.1 oz/a A					
INTERLINE	32 fl oz/a B					
N-PAK AMS	2.5 % v/v B					
SELECT MAX	6 fl oz/a B					
NIS	0.25 % v/v B					
LSD P=.05	.	.	.	5.7	.	5.6
Standard Deviation	0.0	0.0	0.0	2.9	0.0	2.9
CV	0.0	0.0	0.0	2.97	0.0	2.94
Levene's F	0.00	0.00	0.00		0.00	0.605
Levene's Prob(F)	0.00*	0.00*	0.00*		0.00*	0.573
Skewness	.	.	.	-3.1623*	.	0.295
Kurtosis	.	.	.	10.0*	.	-1.999
Replicate F	0.000	0.000	0.000	1.886	0.000	0.160
Replicate Prob(F)	1.0000	1.0000	1.0000	0.2731	1.0000	0.9179
Treatment F	0.000	0.000	0.000	1.181	0.000	0.636
Treatment Prob(F)	1.0000	1.0000	1.0000	0.3953	1.0000	0.5756

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Pest Type Pest Code Pest Name	W Weed SETFA Giant foxtail	W Weed ECHSS Barnyardgrass	W Weed AMARE Redroot pigweed	W Weed ABUTH velvetleaf		
Crop Code Crop Name Part Rated Rating Date Rating Type Rating Unit Number of Subsamples Assessed By	GLXMA Soybean PLOT - Jun-29-2018 CONTROL % 1 D. JOHNSON	GLXMA Soybean PLOT - Jun-29-2018 CONTROL % 1 D. JOHNSON	GLXMA Soybean PLOT - Jun-29-2018 CONTROL % 1 D. JOHNSON	GLXMA Soybean PLOT - Jun-29-2018 CONTROL % 1 D. JOHNSON	GLXMA Soybean PLOT - Oct-18-2018 YIELD lb/plot 1 D. JOHNSON	GLXMA Soybean PLOT - Oct-18-2018 MOICON % 1 D. JOHNSON
Rating Timing Days After First/Last Applic. Trt-Eval Interval ARM Action Codes Number of Decimals	A3 53 28 14 DA-A P 0	A3 53 28 14 DA-A P 0	A3 53 28 14 DA-A P 0	A3 53 28 14 DA-A P 0	164 139 123 DA-A P 1	164 139 123 DA-A P 1
Trt No.	13	14	15	16	17	18
Treatment Name	1 UNTREATED CHECK					
Rate	0	0	0	0	14.6	12.3
Rate Unit						
Appl Code						
2 MOCASSIN MTZ SCEPTER INTERLINE N-PAK AMS SELECT MAX NIS	100 - 32 fl oz/a A 2.1 oz/a A 32 fl oz/a B 2.5 % v/v B 6 fl oz/a B 0.25 % v/v B	100 -	100 -	100 -	23.8 -	12.5 -
3 MOCASSIN MTZ SCEPTER INTERLINE N-PAK AMS SELECT MAX NIS	100 - 40 fl oz/a A 2.1 oz/a A 32 fl oz/a B 2.5 % v/v B 6 fl oz/a B 0.25 % v/v B	100 -	100 -	100 -	24.6 -	12.4 -
4 TRIPZIN ZC SCEPTER INTERLINE N-PAK AMS SELECT MAX NIS	100 - 42 fl oz/a A 2.1 oz/a A 32 fl oz/a B 2.5 % v/v B 6 fl oz/a B 0.25 % v/v B	100 -	100 -	100 -	24.8 -	12.3 -
LSD P=.05	.	.	.	.	4.17	0.58
Standard Deviation	0.0	0.0	0.0	0.0	2.12	0.29
CV	0.0	0.0	0.0	0.0	8.7	2.37
Levene's F	0.00	0.00	0.00	0.00	0.05	0.776
Levene's Prob(F)	0.00*	0.00*	0.00*	0.00*	0.952	0.496
Skewness	.	.	.	.	0.0224	1.5554*
Kurtosis	.	.	.	.	-0.923	2.7221*
Replicate F	0.000	0.000	0.000	0.000	3.031	2.137
Replicate Prob(F)	1.0000	1.0000	1.0000	1.0000	0.1560	0.2383
Treatment F	0.000	0.000	0.000	0.000	0.246	0.690
Treatment Prob(F)	1.0000	1.0000	1.0000	1.0000	0.7933	0.5530

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Pest Type			
Pest Code			
Pest Name			
Crop Code			GLXMA
Crop Name			Soybean
Part Rated			PLOT -
Rating Date			Oct-18-2018
Rating Type			YIELD
Rating Unit			BU
Number of Subsamples			1
Assessed By			D. JOHNSON
Rating Timing			
Days After First/Last Applic.			164 139
Trt-Eval Interval			123 DA-A
ARM Action Codes			TY1
Number of Decimals			1
Trt No.	Treatment Name	Rate	Appl Code
		Rate Unit	
			19
1	UNTREATED CHECK		42.7
2	MOCASSIN MTZ	32 fl oz/a A	69.5 -
	SCEPTER	2.1 oz/a A	
	INTERLINE	32 fl oz/a B	
	N-PAK AMS	2.5 % v/v B	
	SELECT MAX	6 fl oz/a B	
	NIS	0.25 % v/v B	
3	MOCASSIN MTZ	40 fl oz/a A	71.8 -
	SCEPTER	2.1 oz/a A	
	INTERLINE	32 fl oz/a B	
	N-PAK AMS	2.5 % v/v B	
	SELECT MAX	6 fl oz/a B	
	NIS	0.25 % v/v B	
4	TRIPZIN ZC	42 fl oz/a A	72.7 -
	SCEPTER	2.1 oz/a A	
	INTERLINE	32 fl oz/a B	
	N-PAK AMS	2.5 % v/v B	
	SELECT MAX	6 fl oz/a B	
	NIS	0.25 % v/v B	
LSD P=.05			12.16
Standard Deviation			6.20
CV			8.68
Levene's F			0.042
Levene's Prob(F)			0.959
Skewness			-0.0154
Kurtosis			-0.9576
Replicate F			2.876
Replicate Prob(F)			0.1669
Treatment F			0.283
Treatment Prob(F)			0.7676

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Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

SETFA, Setaria faberi, Giant foxtail = US

AMARE, Amaranthus retroflexus, Redroot pigweed = US

ECHSS, Echinochloa sp., Barnyardgrass = US

ABUTH, Abutilon theophrasti, velvetleaf = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Part Rated

PLOT = plot

Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

YIELD = yield

MOICON = moisture content

Rating Unit

% = percent

lb/plot = pounds per plot

BU = bushel

Rating Timing

A1 = 1st Assessment According to Trial Schedule

A2 = 2nd Assessment According to trial Schedule

A3 = 3rd Assessment According to Trial Schedule

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = $2.904 * [17] * (100 - @MVAVGREP([18])) / 87$