

The Ohio State University
 2017/FALL/SOYBEAN/AUTHORITY XL/AUTHORITY MTZ/CRUSHER/HARMONY XP/SPLIT/EXTEND SOYBEANS
 Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 18FALLSOY1 Location: Trial Year: 2018
 Protocol ID: SULF.SOY.18JPR.01 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

General Trial Information

Investigator: Dr. Mark M. Loux

Trial Location

City: South Charleston Country: USA United States
 State/Prov.: Ohio
 Postal Code: 45368 Climate Zone: USWARM US Warm Continental

Latitude of LL Corner °: 39.85868 N
 Longitude of LL Corner °: 83.6703 W
 Altitude of LL Corner, Unit: 1088.00 FT

Conducted Under GLP: No
 Conducted Under GEP: No

Investigator: Dr. Mark M. Loux
 Organization: The Ohio State University
 Address: 2021 Coffey Road
 City+State/Prov: Columbus, Ohio
 Postal Code: 43210
 Country: USA United States

Crop 1: GLXMA Glycine max
 Variety: 36X6
 Description: Asgrow RR2X

Crop Description

Soybean
 Planting Date: Apr-30-2018
 Planting Method: PLANTD planted
 Planting Equipment: PP plot planter
 Emergence Date: May-11-2018
 Harvest Date: Oct-24-2018
 Harvested Width, Unit: 6.25 FT
 Harvested Length, Unit: 30 FT
 Harvest Equipment: Massey 8 XP
 % Standard Moisture: 13
 Moisture Meter: Mirrus by Harvest Master
 Weighing Equipment: Mirrus by Harvest Master

Planting Rate, Unit: 166000 S/A
 Depth, Unit: 1.25 IN
 Row Spacing, Unit: 15 IN

Rows per Plot: 8

Soil Temperature, Unit: 50 F
 Soil Moisture: NORMAL normal, adequate
 Seed Bed: MEDTRA medium/trashy

Pest Description

Pest 1 Type: W Code: LAMPU Lamium purpureum
 Common Name: Purple deadnettle

Pest 2 Type: W Code: STEME Stellaria media
 Common Name: Common chickweed

Pest 3 Type: W Code: AMBTR Ambrosia trifida
 Common Name: Giant ragweed

Pest 4 Type: W Code: SETFA Setaria faberi
 Common Name: Giant foxtail

Site and Design

Treated Plot Width: 10 FT
 Treated Plot Length: 30 FT
 Treated Plot Area: 300 FT² Treatments: 14
 Replications: 3
 Site Type: FIELD field
 Experimental Unit: 1 PLOT plot
 Tillage Type: NOTILL no-till
 Study Design: RACOB L Randomized Complete Block (RCB)

No. Previous Crop Year
 1. Corn 2017

Soil Description

Description Name: F-9 E
 % Sand: 36 % OM: 3 Texture: SICL silty clay loam
 % Silt: 49 pH: 6.4 Soil Name: Kokomo
 % Clay: 15 CEC: 17.8 Fert. Level: G good
 Soil Drainage: G good

Analyzed By:
 Spectrum Analytic 11-27-17

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Application Description

	A	B	C	D	E
Application Date:	Nov-9-2017	Apr-20-2018	Apr-30-2018	May-16-2018	Jun-6-2018
Appl. Start Time:	10:00 AM	1:45 PM	1:00 PM	10:30 AM	8:30 AM
Appl. Stop Time:	10:15 AM	2:00 PM	1:15 PM	10:40 AM	8:45 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	FALL	14 EPP	PRE	EPO	7EPP
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	Dobbels	Reeb	Loux	Dobbels	Fisher
Air Temperature, Unit:	46 F	56 F	64 F	66 F	59 F
% Relative Humidity:	68	31	25	77	73
Wind Velocity, Unit:	7 MPH	6 MPH	4 MPH	3 MPH	6 MPH
Wind Direction:	WSW	ENE	SW	NE	NE
Dew Presence (Y/N):	N no	N no	N no	Y yes	Y yes
Soil Temperature, Unit:	41 F	58 F	60 F	66 F	59 F
Soil Moisture:	WET	SLIWET	NORMAL	SLIWET	NORMAL
% Cloud Cover:	0	1	20	100	0
Next Moisture Occurred On:	Nov-12-2017	Apr-23-2018	May-3-2018	May-17-2018	Jun-8-2018
Time to Next Moisture, Unit:	3 DAY	3 DAY	3 DAY	1 DAY	2 DAY
Moisture 1 Week after Appl.:	0.45 IN	0.24 IN	0.71 IN	1.41 IN	1.1 IN

Crop Stage At Each Application

	A		B		C		D		E	
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
Stage Scale Used:					BBCH		BBCH			
Stage Majority, Percent:					10		100		15	
Height, Unit:					2.5 IN		9 IN			
Height Minimum, Maximum:					1.5		2.5		8	

Pest Stage At Each Application

	A		B		C		D		E	
Pest 1 Code, Type, Scale:	LAMPU	W	LAMPU	W	LAMPU	W	LAMPU	W	LAMPU	W
Stage Majority, Percent:	16	80								
Stage Minimum, Percent:	14	20								
Stage Maximum, Percent:	16	80								
Diameter, Unit:	0.5	IN								
Height, Unit:	1	IN								
Height Minimum, Maximum:	0.5	1								
Density, Unit:	3	M2								
Pest 2 Code, Type, Scale:	STEME	W	STEME	W	STEME	W	STEME	W	STEME	W
Stage Majority, Percent:	18	90								
Stage Minimum, Percent:	18	90								
Stage Maximum, Percent:	19	10								
Diameter, Unit:	0.25	IN								
Height, Unit:	0.25	IN								
Height Minimum, Maximum:	0.25	0.25								
Density, Unit:	0.33	M2								
Pest 3 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:		10	100	12	100	16	100	19	100	
Diameter, Unit:		1	IN	1	IN	5	IN			
Height, Unit:		1	IN	3	IN	4	IN	11	IN	
Height Minimum, Maximum:		0.5	1	2	3	1.5	4.5	10	12	
Density, Unit:		2	M2	2	M2	2	M2	2	M2	
Pest 4 Code, Type, Scale:	SETFA	W	SETFA	W	SETFA	W	SETFA	W	SETFA	W
Stage Majority, Percent:				11	100	12	100	15	100	
Height, Unit:				1	IN	2	IN	10	IN	
Height Minimum, Maximum:				0.5	1	0.5	4	4	15	
Density, Unit:				85	M2	125	M2	125	M2	

Application Equipment

	A		B		C		D		E	
Appl. Equipment:	10' AI XR	10' AI XR	10' AI XR	10' TTI	10' TTI					
Equipment Type:	SPRBAC	SPRBAC	SPRBAC	SPRBAC	SPRBAC					
Operation Pressure, Unit:	46	PSI	42	PSI	42	PSI	46	PSI	46	PSI
Nozzle Type:	AI XR	AI XR	AI XR	AI XR	AI XR					
Nozzle Size:	110015	110015	110015	110015	110015					
Nozzle Spacing, Unit:	18	IN	18	IN	18	IN	18	IN	18	IN
Boom Length, Unit:	10	FT	10	FT	10	FT	10	FT	10	FT
Boom Height, Unit:	20	IN	20	IN	20	IN	20	IN	20	IN
Ground Speed, Unit:	3	MPH	3	MPH	3	MPH	3	MPH	3	MPH
Carrier:	WATER	WATER	WATER	WATER	WATER					
Spray Volume, Unit:	15	GPA	15	GPA	15	GPA	15	GPA	15	GPA
Mix Size, Unit:	2	L	2	L	2	L	2	L	2	L
Propellant:	CO2	COMCO2	COMCO2	CO2	CO2					

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Project ID: Study Director:
Sponsor Contact:

Pest Type	Weight	Moisture	Weight	TestWeight
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	Oct-24-2018	Oct-24-2018	Oct-24-2018	Oct-24-2018
Rating Type	WEIGHT	MOICON	YIELD	WEITES
Rating Unit	LBS	%	BU	LBS
Sample Size, Unit	1 PLOT		1 A	1 QT
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	349 140	349 140	349 140	349 140
Trt-Eval Interval				
Plant-Eval Interval	177 DP-1	177 DP-1	177 DP-1	177 DP-1
Days After Emergence	166 DE-1	166 DE-1	166 DE-1	166 DE-1
ARM Action Codes			TY1	
Number of Decimals	1	1	1	1

Trt Treatment No. Name	Appl Code	15*	16*	17*	18*
1 UNTREATED 1		4.6 h	12.2 -	17.9 g	51.5 -
2 HARMONY EXTRA XP 2 Harmony GT 2 Express 2 Weedmaster 2 Roundup Powermax 2 N-PAK AMS 2 CRUSHER 2 Weedmaster 2 N-PAK AMS 2 COMMAND 3 ME 2 AUTHORITY MTZ 2 CLASSIC 2 ROUNDUP POWERMAX 2 BUTYRAC 200 2 N-PAK AMS 2	A A A A A A B B B C C C C C C C	9.5 fg	13.1 -	36.9 ef	54.1 -
3 CRUSHER 3 Weedmaster 3 Roundup Powermax 3 N-PAK AMS 3 COC 3 N-PAK AMS 3 Harmony GT 3 2,4-D Ester 3 Command 3 ME 3 AUTHORITY MTZ 3 Roundup Powermax 3 N-PAK AMS 3 Anthem Maxx 3 Select Max 3 Flexstar 3 COC 3	A A A A A A B B B B B B E E E E	13.7 de	13.0 -	53.0 cd	55.1 -

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Pest Type	Weight	Moisture	Weight	TestWeight
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	Oct-24-2018	Oct-24-2018	Oct-24-2018	Oct-24-2018
Rating Type	WEIGHT	MOICON	YIELD	WEITES
Rating Unit	LBS	%	BU	LBS
Sample Size, Unit	1 PLOT		1 A	1 QT
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	349 140	349 140	349 140	349 140
Trt-Eval Interval				
Plant-Eval Interval	177 DP-1	177 DP-1	177 DP-1	177 DP-1
Days After Emergence	166 DE-1	166 DE-1	166 DE-1	166 DE-1
ARM Action Codes			TY1	
Number of Decimals	1	1	1	1

Trt Treatment No. Name	Appl Code	15*	16*	17*	18*
4 CRUSHER	A	16.6 abc	13.1 -	64.4 abc	55.3 -
4 Weedmaster	A				
4 Roundup Powermax	A				
4 COC	A				
4 N-PAK AMS	A				
4 Command 3 ME	C				
4 AUTHORITY MTZ	C				
4 CLASSIC	C				
4 Roundup Powermax	C				
4 BUTYRAC 200	C				
4 COC	C				
4 N-PAK AMS	C				
4 Roundup Powermax	E				
4 Flexstar	E				
4 N-PAK AMS	E				
4					
5 CRUSHER	A	14.6 cd	13.2 -	56.6 bc	55.2 -
5 Weedmaster	A				
5 Roundup Powermax	A				
5 COC	A				
5 N-PAK AMS	A				
5 Command 3 ME	C				
5 AUTHORITY MTZ	C				
5 CLASSIC	C				
5 Xtendimax	C				
5 Roundup Powermax	C				
5 Roundup Powermax	E				
5 Flexstar	E				
5 N-PAK AMS	E				
5					
6 CRUSHER	A	16.7 abc	13.1 -	64.8 ab	55.2 -
6 Weedmaster	A				
6 Roundup Powermax	A				
6 COC	A				
6 N-PAK AMS	A				
6 Command 3 ME	C				
6 AUTHORITY XL	C				
6 Sencor DF	C				
6 Xtendimax	C				
6 Roundup Powermax	C				
6 Roundup Powermax	E				
6 Flexstar	E				
6 N-PAK AMS	E				
6					

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Pest Type					
Pest Code					
Pest Scientific Name	Weight	Moisture	Weight	TestWeight	
Pest Name					
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	
BBCH Scale	BSOY	BSOY	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	Soybean	Soybean	
Rating Date	Oct-24-2018	Oct-24-2018	Oct-24-2018	Oct-24-2018	
Rating Type	WEIGHT	MOICON	YIELD	WEITES	
Rating Unit	LBS	%	BU	LBS	
Sample Size, Unit	1 PLOT		1 A	1 QT	
Number of Subsamples	1	1	1	1	
Days After First/Last Applic.	349 140	349 140	349 140	349 140	
Trt-Eval Interval					
Plant-Eval Interval	177 DP-1	177 DP-1	177 DP-1	177 DP-1	
Days After Emergence	166 DE-1	166 DE-1	166 DE-1	166 DE-1	
ARM Action Codes			TY1		
Number of Decimals	1	1	1	1	
Trt Treatment No. Name	Appl Code	15*	16*	17*	18*
7 CRUSHER	A	15.1 bcd	12.8 -	58.6 abc	54.9 -
7 Weedmaster	A				
7 Roundup Powermax	A				
7 COC	A				
7 N-PAK AMS	A				
7 Command 3 ME	C				
7 Authority Maxx	C				
7 Sencor DF	C				
7 Xtendimax	C				
7 Roundup Powermax	C				
7 Roundup Powermax	E				
7 Flexstar	E				
7 N-PAK AMS	E				
7					
8 CRUSHER	A	18.0 a	13.1 -	69.7 a	55.2 -
8 Weedmaster	A				
8 Roundup Powermax	A				
8 COC	A				
8 N-PAK AMS	A				
8 Command 3 ME	C				
8 Authority First	C				
8 Sencor DF	C				
8 Xtendimax	C				
8 Roundup Powermax	C				
8 Roundup Powermax	E				
8 Flexstar	E				
8 N-PAK AMS	E				
8					
9 CRUSHER	A	16.5 a-d	13.3 -	63.7 abc	55.2 -
9 Weedmaster	A				
9 Roundup Powermax	A				
9 COC	A				
9 N-PAK AMS	A				
9 Command 3 ME	D				
9 Xtendimax	D				
9 Roundup Powermax	D				
9 Roundup Powermax	E				
9 Flexstar	E				
9 N-PAK AMS	E				
9					

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Pest Type					
Pest Code					
Pest Scientific Name	Weight	Moisture	Weight	TestWeight	
Pest Name					
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	
BBCH Scale	BSOY	BSOY	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	Soybean	Soybean	
Rating Date	Oct-24-2018	Oct-24-2018	Oct-24-2018	Oct-24-2018	
Rating Type	WEIGHT	MOICON	YIELD	WEITES	
Rating Unit	LBS	%	BU	LBS	
Sample Size, Unit	1 PLOT		1 A	1 QT	
Number of Subsamples	1	1	1	1	
Days After First/Last Applic.	349 140	349 140	349 140	349 140	
Trt-Eval Interval					
Plant-Eval Interval	177 DP-1	177 DP-1	177 DP-1	177 DP-1	
Days After Emergence	166 DE-1	166 DE-1	166 DE-1	166 DE-1	
ARM Action Codes			TY1		
Number of Decimals	1	1	1	1	
Trt Treatment No. Name	Appl Code	15*	16*	17*	18*
10 CRUSHER	A	17.7 ab	13.1 -	68.2 a	54.8 -
10 Weedmaster	A				
10 Roundup Powermax	A				
10 COC	A				
10 N-PAK AMS	A				
10 Command 3 ME	D				
10 Xtendimax	D				
10 Roundup Powermax	D				
10 Roundup Powermax	E				
10 Flexstar	E				
10 N-PAK AMS	E				
10					
11 CRUSHER	A	17.6 ab	13.2 -	68.0 a	55.0 -
11 Weedmaster	A				
11 Roundup Powermax	A				
11 COC	A				
11 N-PAK AMS	A				
11 Command 3 ME	D				
11 Xtendimax	D				
11 Roundup Powermax	D				
11 Roundup Powermax	E				
11 Flexstar	E				
11 N-PAK AMS	E				
11					
12 CRUSHER	A	7.2 gh	12.7 -	27.9 fg	46.5 -
12 Weedmaster	A				
12 Roundup Powermax	A				
12 COC	A				
12 N-PAK AMS	A				
12 Xtendimax	C				
12 Roundup Powermax	C				
12					

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Pest Code					
Pest Scientific Name	Weight	Moisture	Weight	TestWeight	
Pest Name					
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	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	Oct-24-2018	Oct-24-2018	Oct-24-2018	Oct-24-2018	Oct-24-2018
Rating Type	WEIGHT	MOICON	YIELD	WEITES	
Rating Unit	LBS	%	BU	LBS	
Sample Size, Unit	1 PLOT		1 A	1 QT	
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	349 140	349 140	349 140	349 140	349 140
Trt-Eval Interval					
Plant-Eval Interval	177 DP-1	177 DP-1	177 DP-1	177 DP-1	177 DP-1
Days After Emergence	166 DE-1	166 DE-1	166 DE-1	166 DE-1	166 DE-1
ARM Action Codes			TY1		
Number of Decimals	1	1	1	1	1
Trt Treatment No. Name	Appl Code	15*	16*	17*	18*
13 CRUSHER	A	10.7 f	12.8 -	41.5 e	54.5 -
13 Weedmaster	A				
13 Roundup Powermax	A				
13 COC	A				
13 N-PAK AMS	A				
13 HARMONY EXTRA XP	B				
13 2,4-D Ester	B				
13 Command 3 ME	B				
13 AUTHORITY MTZ	B				
13 Classic	B				
13 Roundup Powermax	B				
13 N-PAK AMS	B				
13 Anthem Maxx	E				
13 Select Max	E				
13 Flexstar	E				
13 COC	E				
13					

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Pest Code					
Pest Scientific Name	Weight	Moisture	Weight	TestWeight	
Pest Name					
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	
BBCH Scale	BSOY	BSOY	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	Soybean	Soybean	
Rating Date	Oct-24-2018	Oct-24-2018	Oct-24-2018	Oct-24-2018	
Rating Type	WEIGHT	MOICON	YIELD	WEITES	
Rating Unit	LBS	%	BU	LBS	
Sample Size, Unit	1 PLOT		1 A	1 QT	
Number of Subsamples	1	1	1	1	
Days After First/Last Applic.	349 140	349 140	349 140	349 140	
Trt-Eval Interval					
Plant-Eval Interval	177 DP-1	177 DP-1	177 DP-1	177 DP-1	
Days After Emergence	166 DE-1	166 DE-1	166 DE-1	166 DE-1	
ARM Action Codes			TY1		
Number of Decimals	1	1	1	1	
Trt Treatment No. Name	Appl Code	15*	16*	17*	18*
14 CRUSHER	A	10.9 ef	12.4 -	42.5 de	51.8 -
14 Weedmaster	A				
14 Roundup Powermax	A				
14 COC	A				
14 N-PAK AMS	A				
14 HARMONY EXTRA XP	B				
14 2,4-D Ester	B				
14 Command 3 ME	B				
14 AUTHORITY MTZ	B				
14 Roundup Powermax	B				
14 N-PAK AMS	B				
14 Anthem Maxx	E				
14 Classic	E				
14 Select Max	E				
14 Flexstar	E				
14 COC	E				
14					
LSD P=.05		2.88	0.91	11.37	6.48
Standard Deviation		1.72	0.54	6.79	3.86
CV		12.71	4.19	12.95	7.16
Levene's F		0.882	0.978	0.891	1.026
Levene's Prob(F)		0.579	0.496	0.571	0.456
Skewness		-0.7637*	-1.8321*	-0.7619*	-4.569*
Kurtosis		-0.5023	4.1971*	-0.4987	23.0711*
Randomized Complete Block (RCB) AIC		210.4823	81.2963	325.0411	NA
Spatial AIC		SPa	SPa 81.2439	SPa	NA
		178.1843		293.4826	
Analyzed as		CRD+SPa	CRD+SPa	CRD+SPa	RCB
Replicate F		0.878	1.393	0.804	2.791
Replicate Prob(F)		0.4273	0.2657	0.4578	0.0798
Treatment F		17.489	1.086	16.637	1.204
Treatment Prob(F)		0.0001	0.4103	0.0001	0.3305

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Type

WEIGHT = weight

MOICON = moisture content

YIELD = yield

WEITES = weight - test

Rating Unit

% = percent

BU = bushel

PLOT = total plot

A = acre

QT = quart

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* Adjusted means

The Ohio State University

2017/FALL/SOYBEAN/AUTHORITY XL/AUTHORITY MTZ/CRUSHER/HARMONY XP/SPLIT/EXTEND SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/

Trial ID: 18FALLSOY1 Location: Trial Year: 2018

Protocol ID: SULF.SOY.18JPR.01 Investigator: Dr. Mark M. Loux

Project ID: Study Director:
Sponsor Contact:Plant-Eval Interval

177 DP-1 = 1 GLXMA Apr-30-2018

ARM Action CodesTY1 = $3.872 * [15] * (100 - [16]) / 87$

SPa = Nearest column neighbor