

The Ohio State University
 2017-8/FALL/SOYBEAN/COMMAND 3ME/AUTHORITY//SPLIT/EXTEND SOYBEANS
 Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 18FALLSOY2 Location: Trial Year: 2018
 Protocol ID: SULF.SOY.18JPR.03a 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 °: 39.85787 N
 Longitude of LL Corner °: 83.67403 W
 Altitude of LL Corner, Unit: 1081.00 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 Description

Crop 1: GLXMA Glycine max
 Variety: 3841LL
 Description: Credenze

Soybean
 BBCH Scale: BSOY

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

Rows per Plot: 8

Soil Temperature, Unit: 58 F
 Soil Moisture: NORMAL normal, adequate
 Seed Bed: MEDTRA medium/trashy

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

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: TAROF Taraxacum officinale
 Common Name: Blowball
 Pest 4 Type: W Code: SENGL Packera glabella
 Common Name: Cressleaf groundsel
 Pest 5 Type: W Code: RANAB Ranunculus abortivus
 Common Name: Smallflower buttercup
 Pest 6 Type: W Code: AMBTR Ambrosia trifida
 Common Name: Giant ragweed
 Pest 7 Type: W Code: SETFA Setaria faberi
 Common Name: Giant foxtail
 Pest 8 Type: W Code: ECHCG Echinochloa crus-galli
 Common Name: Common barnyard grass

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. Soybean 2017

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Soil Description

Description Name: G-8
 % Sand: 36 % OM: 2.4 **Texture:** L loam
 % Silt: 47 pH: 6.2 **Soil Name:** Crosby
 % Clay: 17 CEC: 13.4 **Fert. Level:** G good
Soil Drainage: F fair

Analyzed By:
 Spectrum Analytic, Inc. Wahington Court House, OH

Application Description

	A	B	C	D	E	F
Application Date:	Nov-9-2017	Apr-20-2018	Apr-26-2018	Apr-30-2018	Jun-6-2018	
Appl. Start Time:	10:00 AM	2:00 PM	1:00 PM	1:00 PM	11:30 AM	
Appl. Stop Time:	10:15 AM	2:15 PM	1:15 PM	1:15 PM	11:45 AM	
Interval to Prev. Appl., Unit:		162 DAYS	6 DAYS	4 DAYS	37 DAYS	
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	
Application Timing:	FALL	14 EPP	7 EPP	PRE	POST	
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	
Applied By:	Dobbels	Reeb	Dobbels	Dobbels	Dobbels	
Air Temperature, Unit:	46 F	56 F	66 F	64 F	60 F	
% Relative Humidity:	68	31	51	25	73	
Wind Velocity, Unit:	7 MPH	6 MPH	3 MPH	4 MPH	6 MPH	
Wind Direction:	WSW	ENE	SSE	SW	NE	
Dew Presence (Y/N):	N no	N no	N no	N no	N no	
Soil Temperature, Unit:	41 F	58 F	72 F	60 F	60 F	
Soil Moisture:	WET	SLIWET	SLIWET	NORMAL	MOIST	
% Cloud Cover:	0	1	55	20	0	
Next Moisture Occurred On:	Nov-12-2017	Apr-23-2018	May-3-2018	May-3-2018	Jun-8-2018	
Time to Next Moisture, Unit:	3 DAY	3 DAY	1 WK	3 DAY	2 DAY	
Moisture 1 Week after Appl.:	0.45 IN	0.24 IN	0.13 IN	0.94 IN	1.1 IN	

Crop Stage At Each Application

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

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Pest Stage At Each Application

	A	B	C	D	E	F
Pest 1 Code, Type, Scale:	LAMPU W	LAMPU W	LAMPU W	LAMPU W	LAMPU W	LAMPU W
Stage Majority, Percent:	14 80					
Stage Minimum, Percent:	14 80					
Stage Maximum, Percent:	16 20					
Diameter, Unit:	0.25 IN					
Height, Unit:	0.5 IN					
Height Minimum, Maximum:	0.5 1					
Density, Unit:	50 M2					
Pest 2 Code, Type, Scale:	STEME W	STEME W	STEME W	STEME W	STEME W	STEME W
Stage Majority, Percent:	16 90					
Stage Minimum, Percent:	16 90					
Stage Maximum, Percent:	18 10					
Diameter, Unit:	0.5 IN					
Height, Unit:	05 IN					
Height Minimum, Maximum:	05 05					
Density, Unit:	8 M2					
Pest 3 Code, Type, Scale:	TAROF W	TAROF W	TAROF W	TAROF W	TAROF W	TAROF W
Stage Majority, Percent:	19 100					
Diameter, Unit:	11 IN					
Height, Unit:	0.5 IN					
Height Minimum, Maximum:	0.5 0.75					
Density, Unit:	3 M2					
Pest 4 Code, Type, Scale:	SENGL W	SENGL W	SENGL W	SENGL W	SENGL W	SENGL W
Stage Majority, Percent:	16 80					
Stage Minimum, Percent:	16 80					
Stage Maximum, Percent:	19 20					
Diameter, Unit:	4 IN					
Height, Unit:	0.5 IN					
Height Minimum, Maximum:	0.5 0.75					
Density, Unit:	1 M2					
Pest 5 Code, Type, Scale:	RANAB W	RANAB W	RANAB W	RANAB W	RANAB W	RANAB W
Stage Majority, Percent:			12 100			
Diameter, Unit:			1 IN			
Height, Unit:			2 IN			
Height Minimum, Maximum:			1 2			
Density, Unit:			0.33 M2			
Pest 6 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:	10 90	12 100	16 100			
Stage Minimum, Percent:	10 90					
Stage Maximum, Percent:	12 10					
Height, Unit:	1.5 IN	2 IN	10 IN			
Height Minimum, Maximum:	1 1.5	1 2	6 12			
Density, Unit:	3 M2	3 M2	3 M2			
Pest 7 Code, Type, Scale:	SETFA W	SETFA W	SETFA W	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:			12 100	15 100		
Height, Unit:			1 IN	10 IN		
Height Minimum, Maximum:			1 2	8 12		
Density, Unit:			130 M2	130 M2		
Pest 8 Code, Type, Scale:	ECHCG W	ECHCG W	ECHCG W	ECHCG W	ECHCG W	ECHCG W
Stage Majority, Percent:					15 100	
Height, Unit:					10 IN	
Height Minimum, Maximum:					6 12	
Density, Unit:					85 M2	

Application Equipment

	A	B	C	D	E	F
Appl. Equipment:	10' AI XR	10' AI XR	10' AI XR	10' AI XR	10' AI XR	
Equipment Type:	SPRBAC	SPRBAC	SPRBAC	SPRBAC	SPRBAC	
Operation Pressure, Unit:	46 PSI	46 PSI	46 PSI	42 PSI	42 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	CO2	CO2	CO2	COMCO2	

Date By Notes
 Apr-20-2018 Dobbels No weeds were present at the 14 EPP application

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Trt	Treatment	Other	Other	Appl					
No.	Name	Rate	Rate	Unit	Code	18*	19*	20*	21*
1	UNTREATED					10.1 b	13.1 -	39.0 b	55.0 -
1									
2	Weedmaster			A		14.2 a	13.3 -	54.6 a	54.6 -
2	Roundup Powermax			A					
2	COC			A					
2	N-PAK AMS			A					
2	Command 3 ME			B					
2	METRIBUZIN			B					
2	2,4-D Ester			B					
2	Roundup Powermax			B					
2	N-PAK AMS			B					
2	Liberty 280 SL			E					
2	Classic			E					
2	N-PAK AMS			E					
2	Liberty 280 SL			F					
2	N-PAK AMS			F					
3	WEEDMASTER			A		15.5 a	13.7 -	59.5 a	55.1 -
3	ROUNDUP POWERMAX			A					
3	COC			A					
3	N-PAK AMS			A					
3	COMMAND 3 ME			B					
3	AUTHORITY MTZ			B					
3	2,4-D Ester			B					
3	Roundup Powermax			B					
3	N-PAK AMS			B					
3									
3	Liberty 280 SL			E					
3	Classic			E					
3	N-PAK AMS			E					
3	Liberty 280 SL			F					
3	N-PAK AMS			F					

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Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	18*	19*	20*	21*
4	WEEDMASTER			A	15.1 a	13.0 -	58.5 a	54.7 -
4	ROUNDUP POWERMAX			A				
4	COC			A				
4	N-PAK AMS			A				
4	COMMAND 3 ME			B				
4	SPARTAN CHARGE	0.164 lb ai/a		B				
4	SPARTAN	4.7 oz/a		B				
4	AIM	1.02 oz/a		B				
4	2,4-D Ester			B				
4	Roundup Powermax			B				
4	N-PAK AMS			B				
4	Liberty 280 SL			E				
4	Classic			E				
4	N-PAK AMS			E				
4	Liberty 280 SL			F				
4	N-PAK AMS			F				
5	WEEDMASTER			A	14.0 a	13.2 -	54.1 a	55.4 -
5	ROUNDUP POWERMAX			A				
5	COC			A				
5	N-PAK AMS			A				
5	COMMAND 3 ME			B				
5	METRIBUZIN			B				
5	Authority Assist			B				
5	2,4-D Ester			B				
5	Roundup Powermax			B				
5	N-PAK AMS			B				
5	Liberty 280 SL			E				
5	Classic			E				
5	N-PAK AMS			E				
5	Liberty 280 SL			F				
5	N-PAK AMS			F				

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Pest Type				
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	
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	Other Rate	Other Rate Unit	Appl Code	18*	19*	20*	21*
6 WEEDMASTER			A	14.0 a	13.2 -	54.1 a	55.3 -
6 ROUNDUP POWERMAX			A				
6 COC			A				
6 N-PAK AMS			A				
6 COMMAND 3 ME			B				
6 METRIBUZIN			B				
6 Authority XL			B				
6 2,4-D Ester			B				
6 Roundup Powermax			B				
6 N-PAK AMS			B				
6 Liberty 280 SL			E				
6 N-PAK AMS			E				
6 Liberty 280 SL			F				
6 N-PAK AMS			F				
7 WEEDMASTER			A	14.8 a	13.4 -	57.0 a	55.1 -
7 ROUNDUP POWERMAX			A				
7 COC			A				
7 N-PAK AMS			A				
7 COMMAND 3 ME			B				
7 METRIBUZIN			B				
7 CRUSHER			B				
7 2,4-D Ester			B				
7 Roundup Powermax			B				
7 N-PAK AMS			B				
7 Liberty 280 SL			E				
7 Classic			E				
7 N-PAK AMS			E				
7 Liberty 280 SL			F				
7 N-PAK AMS			F				
8 WEEDMASTER			A	15.5 a	13.3 -	59.8 a	55.6 -
8 ROUNDUP POWERMAX			A				
8 COC			A				
8 N-PAK AMS			A				
8 COMMAND 3 ME			C				
8 METRIBUZIN			C				
8 2,4-D Ester			C				
8 Roundup Powermax			C				
8 N-PAK AMS			C				
8 Liberty 280 SL			E				
8 Classic			E				
8 N-PAK AMS			E				
8 Liberty 280 SL			F				
8 N-PAK AMS			F				

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Pest Type								
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					
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	Other Rate	Other Rate	Unit	Appl Code	18*	19*	20*	21*
9					15.0 a	13.2 -	57.8 a	55.7 -
9 WEEDMASTER				A				
9 ROUNDUP POWERMAX				A				
9 COC				A				
9 N-PAK AMS				A				
9 COMMAND 3 ME				C				
9 AUTHORITY MTZ				C				
9 2,4-D Ester				C				
9 Roundup Powermax				C				
9 N-PAK AMS				C				
9 Anthem Maxx				E				
9 Liberty 280 SL				E				
9 Classic				E				
9 N-PAK AMS				E				
9 Liberty 280 SL				F				
9 N-PAK AMS				F				
10 CRUSHER				A	15.1 a	13.3 -	58.4 a	54.6 -
10 WEEDMASTER				A				
10 ROUNDUP POWERMAX				A				
10 COC				A				
10 N-PAK AMS				A				
10 COMMAND 3 ME				C				
10 Authority Assist				C				
10 METRIBUZIN				C				
10 2,4-D Ester				C				
10 Roundup Powermax				C				
10 N-PAK AMS				C				
10 Anthem Maxx				E				
10 Liberty 280 SL				E				
10 Classic				E				
10 N-PAK AMS				E				
10 Liberty 280 SL				F				
10 N-PAK AMS				F				

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Trt Treatment No. Name	Other Rate	Other Rate	Unit	Appl Code	18*	19*	20*	21*
11 WEEDMASTER				A	15.6 a	13.2 -	60.1 a	55.3 -
11 ROUNDUP POWERMAX				A				
11 COC				A				
11 N-PAK AMS				A				
11 COMMAND 3 ME				C				
11 METRIBUZIN				C				
11 Authority XL				C				
11 2,4-D Ester				C				
11 Roundup Powermax				C				
11 N-PAK AMS				C				
11 Anthem Maxx				E				
11 Liberty 280 SL				E				
11 N-PAK AMS				E				
11 Liberty 280 SL				F				
11 N-PAK AMS				F				
12 WEEDMASTER				A	13.6 a	13.2 -	52.5 a	55.3 -
12 ROUNDUP POWERMAX				A				
12 COC				A				
12 N-PAK AMS				A				
12 COMMAND 3 ME				C				
12 METRIBUZIN				C				
12 Sharpen				C				
12 2,4-D Ester				C				
12 Roundup Powermax				C				
12 N-PAK AMS				C				
12 Anthem Maxx				E				
12 Liberty 280 SL				E				
12 Classic				E				
12 N-PAK AMS				E				
12 Liberty 280 SL				F				
12 N-PAK AMS				F				

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Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	18*	19*	20*	21*
	13 Weedmaster			A		14.3 a	13.1 -	55.1 a	54.7 -
	13 Roundup Powermax			A					
	13 COC			A					
	13 N-PAK AMS			A					
	13 COMMAND 3 ME			D					
	13 METRIBUZIN			D					
	13 Sharpen			D					
	13 BUTYRAC 200			D					
	13 Roundup Powermax			D					
	13 N-PAK AMS			D					
	13 Liberty 280 SL			E					
	13 Classic			E					
	13 N-PAK AMS			E					
	13 Liberty 280 SL			F					
	13 N-PAK AMS			F					

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Trt	Treatment No.	Name	Other Rate	Other Rate Unit	Appl Code	18*	19*	20*	21*
	14	Command 3 ME			A	14.9 a	13.1 -	57.6 a	55.6 -
	14	Weedmaster			A				
	14	Roundup Powermax			A				
	14	COC			A				
	14	N-PAK AMS			A				
	14	COMMAND 3 ME			D				
	14	METRIBUZIN			D				
	14	Sharpen			D				
	14	BUTYRAC 200			D				
	14	Gramoxone SL 2.0			D				
	14	NIS			D				
	14	Liberty 280 SL			E				
	14	Classic			E				
	14	N-PAK AMS			E				
	14	Liberty 280 SL			F				
	14	N-PAK AMS			F				
		LSD P=.05				2.15	0.40	8.34	0.96
		Standard Deviation				1.27	0.24	4.94	0.56
		CV				8.7	1.81	8.74	1.02
		Levene's F				0.379	0.584	0.39	0.371
		Levene's Prob(F)				0.966	0.846	0.962	0.969
		Skewness				-0.5274	0.3938	-0.5372	-0.5405
		Kurtosis				0.2005	1.4407*	0.1921	0.7838
		Randomized Complete Block (RCB) AIC				176.6742	21.2429	290.2274	100.0466
		Spatial AIC				SPa 154.199	SPb 13.1508	SPa 268.0712	SPc 85.8142
		Analyzed as				CRD+SPa	CRD+SPb	CRD+SPa	CRD+SPc
		Replicate F				0.421	2.147	0.446	26.154
		Replicate Prob(F)				0.6614	0.1370	0.6455	0.0001
		Treatment F				4.714	1.836	4.610	1.006
		Treatment Prob(F)				0.0006	0.0909	0.0007	0.4823

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

Plant-Eval Interval

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

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

The Ohio State University
2017-8/FALL/SOYBEAN/COMMAND 3ME/AUTHORITY//SPLIT/EXTEND SOYBEANS
Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
Trial ID: 18FALLSOY2 Location: Trial Year: 2018
Protocol ID: SULF.SOY.18JPR.03a Investigator: Dr. Mark M. Loux
Project ID: Study Director:
Sponsor Contact:

ARM Action Codes

$$TY1 = 3.872 * [18] * (100 - [19]) / 87$$

SPa = Quadratic spatial trend
SPb = Linear spatial trend
SPc = Cubic spatial trend