

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015
 Protocol ID: SULF.SOY.15.JPR.21 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 °: 39.85874 N
 Longitude of LL Corner °: 83.67273 W
 Altitude of LL Corner, Unit: 1088.00 FT

Conducted Under GLP: No
 Conducted Under GEP: No

Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: GLXMA Glycine max
 Variety: CZ3443LL
 Description: Credenze

Soybean

Planting Rate, Unit: 179000 S/A
 Depth, Unit: 1 IN
 Row Spacing, Unit: 15 IN
 Soil Temperature, Unit: 56 F
 Soil Moisture: NORMAL normal, adequate
 Seed Bed: MEDIUM medium

Planting Date: 4-25-2016
 Planting Method: SEEDED seeded
 Planting Equipment: PP Plot Planter
 Emergence Date: 5-1-2016

Pest Description

- Pest 1 Type:** W **Code:** ERICA *Conyza canadensis*
Common Name: Canada horseweed
Description: Bolted Plants / Glyphosate Resistant
- Pest 2 Type:** W **Code:** ERICA *Conyza canadensis*
Common Name: Canada horseweed
Description: Rosettes/ Glyphosate Resistant
- Pest 3 Type:** W **Code:** LAMPU *Lamium purpureum*
Common Name: Purple deadnettel
- Pest 4 Type:** W **Code:** SENGL *Senecio glabellus*
Common Name: Cressleaf groundsel
- Pest 5 Type:** W **Code:** RANAB *Ranunculus abortivus*
Common Name: Smallflower buttercup
- Pest 6 Type:** W **Code:** VERAR *Veronica arvensis*
Common Name: Corn speedwell
- Pest 7 Type:** W **Code:** ERYRE *Erysimum repandum*
Common Name: Bushy wallflower
- Pest 8 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed
- Pest 9 Type:** W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail
- Pest10 Type:** W **Code:** AMARE *Amaranthus retroflexus*
Common Name: Redroot pigweed
- Pest11 Type:** W **Code:** TAROF *Taraxacum officinale*
Common Name: Common dandelion
- Pest12 Type:** W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Common barnyardgrass

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015
 Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

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: 12 Tillage Type: NOTILL no-till
 Replications: 3 Study Design: RAOBL Randomized Complete Block (RCB)

No. Previous Crop Year

1. Wheat 2015

Maintenance

No.	Date	Maintenance Product Name	Form Conc	Form Type	Rate	Tank Unit	Mix
1.	11-17-2015	Select Max	2	EC	12	OZ/A	yes
2.	11-17-2015	NIS	100	L	0.25	% V/V	yes

Soil Description

Description Name: F-10 West
 % OM: 1.6 Texture: SIC silty clay
 pH: 6.6 Soil Name: Crosby
 CEC: 9 Fert. Level: G good
 Soil Drainage: G good

Application Description

	A	B	C	D	E	F
Application Date:	11-3-2015	4-20-2016	4-26-2016	5-27-2016	6-7-2016	6-24-2016
Appl. Start Time:	9:30 AM	9:00 AM	9:00 AM	10:00 AM	9:15 AM	8:00 AM
Appl. Stop Time:	10:00 AM	9:30 AM	9:05 AM	10:15 AM	9:20 AM	8:15 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	FALL	7 EPP	PRE	POST	POST	LPO
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	Dobbels	Reeb	Reeb	Dobbels	Dobbels	REEB
Air Temperature, Unit:	63 F	55 F	70 F	85 F	66 F	69 F
% Relative Humidity:	61	42	60	50	48	78
Wind Velocity, Unit:	3 MPH	8 MPH	9 MPH	8 MPH	9 MPH	5 MPH
Wind Direction:	ENE	E	SW	S	NW	ENE
Dew Presence (Y/N):	N no	N no	N no	N no	N no	N no
Soil Temperature, Unit:	48 F	50 F	58 F	67 F	65 F	69 F
Soil Moisture:	MOIST	NORMAL	NORMAL	NORMAL	MOIST	SLIDRY
% Cloud Cover:	0	30	15	1	0	20
Next Moisture Occurred On:	11-6-2015	4-21-2016	4-26-2016	5-29-2016	6-15-2016	6-26-2016
Time to Next Moisture, Unit:	3 DAY	1 DAY	6 HR	2 DAY	8 DAYS	2 DAYS

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	BBCH	BBCH
Stage Majority, Percent:				11 100	12 100	14 100
Height, Unit:				1 IN	3 IN	12 IN

Pest Stage At Each Application

	A	B	C	D	E	F
Pest 1 Code, Type, Scale:	ERICA W	BBCH ERICA W	ERICA W	ERICA W	ERICA W	ERICA W
Stage Majority, Percent:	30 100					
Diameter, Unit:	4 IN					
Height, Unit:	4 IN					
Height Minimum, Maximum:	4 6					
Density, Unit:	4 M2					
Pest 2 Code, Type, Scale:	ERICA W		ERICA W	ERICA W	ERICA W	ERICA W
Stage Majority, Percent:	19 100			19 100	19 100	30 100
Diameter, Unit:	3 IN					
Height, Unit:	1 IN			2 IN	4 IN	10 IN
Height Minimum, Maximum:	0.5 1			1 2	4 6	2 12
Density, Unit:	6 M2			6 M2	6 M2	2 M2
Pest 3 Code, Type, Scale:	LAMPU W		LAMPU W	LAMPU W	LAMPU W	LAMPU W
Stage Majority, Percent:	19 100		69 100	69 100		
Diameter, Unit:	4 IN		4 IN	4 in		
Height, Unit:	3 IN		6 IN	6 in		
Height Minimum, Maximum:	3 4		4 6	4 6		
Density, Unit:	10 M2		5.3 M2	4 M2		
Pest 4 Code, Type, Scale:	SENGL W		SENGL W	SENGL W	SENGL W	SENGL W
Stage Majority, Percent:	19 100					
Diameter, Unit:	5 IN					

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015
 Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Height, Unit:	3	IN								
Height Minimum, Maximum:	3	4								
Density, Unit:	1	M2	5.3	m2						
Pest 5 Code, Type, Scale:	RANAB	W	RANAB	W	RANAB	W	RANAB	W	RANAB	W
Stage Majority, Percent:	13	100	65	100						
Diameter, Unit:	4	IN	4	IN						
Height, Unit:	4	IN	8	IN						
Height Minimum, Maximum:	3	4	8	12						
Density, Unit:	0.33	M2	1.3	m2	1	M2				
Pest 6 Code, Type, Scale:	VERAR	W	VERAR	W	VERAR	W	VERAR	W	VERAR	W
Stage Majority, Percent:	69	100	65	100						
Diameter, Unit:	4	IN								
Height, Unit:	2	IN			4	IN				
Height Minimum, Maximum:	1	2			3	6				
Density, Unit:	8	M2								
Pest 7 Code, Type, Scale:	ERYRE	W	ERYRE	W	ERYRE	W	ERYRE	W	ERYRE	W
Stage Majority, Percent:	63	100	65	100	65	100				
Diameter, Unit:	3	IN								
Height, Unit:	8	IN	12	IN	11	IN				
Height Minimum, Maximum:	5	8	8	12	10	12				
Density, Unit:	5.3	M2	4	M2						
Pest 8 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:	11	90	12	90	19	100	19	100	19	100
Stage Minimum, Percent:	11	90	11	10						
Stage Maximum, Percent:	12	10	12	90						
Height, Unit:	1	IN	1	IN	10	IN	8	IN	14	IN
Height Minimum, Maximum:	1	2	1	2	8	12	8	10	8	24
Density, Unit:	4	M2	4	M2	4	M2	2	M2	2	M2
Pest 9 Code, Type, Scale:	SETFA	W	SETFA	W	SETFA	W	SETFA	W	SETFA	W
Stage Majority, Percent:							12	100	14	60
Stage Minimum, Percent:									17	40
Stage Maximum, Percent:									14	60
Height, Unit:							1	IN	6	IN
Height Minimum, Maximum:							0.5	1	2	6
Density, Unit:							125	M2	96	M2
Pest10 Code, Type, Scale:	AMARE	W	AMARE	W	AMARE	W	AMARE	W	AMARE	W
Stage Majority, Percent:									14	60
Stage Minimum, Percent:									17	40
Stage Maximum, Percent:									14	60
Height, Unit:									6	IN
Height Minimum, Maximum:									2	6
Density, Unit:									2	M2
Pest11 Code, Type, Scale:	TAROF	W	TAROF	W	TAROF	W	TAROF	W	TAROF	W
Stage Majority, Percent:									89	100
Height, Unit:									8	IN
Height Minimum, Maximum:									8	12
Density, Unit:									0.25	M2
Pest12 Code, Type, Scale:	ECHCG	W	ECHCG	W	ECHCG	W	ECHCG	W	ECHCG	W
Stage Majority, Percent:									15	60
Stage Minimum, Percent:									16	40
Stage Maximum, Percent:									15	60
Height, Unit:									10	IN
Height Minimum, Maximum:									8	12
Density, Unit:									23	M2

Application Equipment

	A	B	C	D	E	F
Appl. Equipment:	6 FOOT BOOM	6 FOOT BOOM	6 FOOT BOOM	6 FOOT BOOM	10' AI XR	10' AI XR
Equipment Type:	SPRBAC	SPRBAC	SPRBAC	SPRBAC	SPRBAC	SPRBAC
Operation Pressure, Unit:	46 PSI	46 PSI	46 PSI	46 PSI	46 PSI	46 PSI
Nozzle Type:	AI XR	AI XR	AI XR	AI XR	AI XR	AI XR
Nozzle Size:	110015	110015	110015	110015	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN	18 IN	18 IN	18 IN
Boom Length, Unit:	10 FT	10 FT	10 FT	10 FT	10 FT	10 FT
Boom Height, Unit:	20 IN	20 IN	20 IN	20 IN	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER	WATER	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA
Mix Size, Unit:	1 Liters	1 Liters	1 Liters	1 Liters	2 Liters	2 Liters
Propellant:	CO2	CO2	CO2	CO2	CO2	CO2

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015
 Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	ERICA	LAMPU	RANAB	ERICA	LAMPU			
Pest Scientific Name	Conyza canadens> Lamium purpure> Ranunculus abo> Conyza canadens> Lamium purpure>							
Pest Name	Canada horsewe>	Purple deadnet>	Smallflower bu>	Canada horsewe>	Purple deadnet>			
Rating Date	11-16-2015	11-16-2015	11-16-2015	12-2-2015	12-2-2015			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	13 13	13 13	13 13	29 29	29 29			
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	29 DA-A	29 DA-A			
Plant-Eval Interval	-161 DP-1	-161 DP-1	-161 DP-1	-145 DP-1	-145 DP-1			
Days After Emergence	-167 DE-1	-167 DE-1	-167 DE-1	-151 DE-1	-151 DE-1			
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*
1 UNTREATED				0 d	0 b	0 b	0 d	0 e
2 AUTHORITY MTZ	8 oz/a		A	75 a	50 a	51 a	87 b	77 ab
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
AUTHORITY MAXX	6.4 oz/a		B					
2,4-D LV ESTER	16 oz/a		B					
Liberty	29 oz/a		B					
N PAK AMS	1.5 qt/a		B					
CADET	0.6 oz/a		E					
Liberty	29 oz/a		E					
N PAK AMS	1.5 qt/a		E					
Liberty	29 oz/a		G					
N PAK AMS	1.5 qt/a		G					
3 AUTHORITY MTZ	8 oz/a		A	77 a	40 a	46 a	85 bc	75 ab
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
AUTHORITY XL	3.2 oz/a		B					
2,4-D LV ESTER	16 oz/a		B					
Liberty	29 oz/a		B					
N PAK AMS	1.5 qt/a		B					
CADET	0.6 oz/a		E					
Liberty	29 oz/a		E					
N PAK AMS	1.5 qt/a		E					
Liberty	29 oz/a		G					
N PAK AMS	1.5 qt/a		G					
4 AUTHORITY MAXX	5 oz/a		A	63 bc	53 a	46 a	94 a	85 a
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
AUTHORITY MTZ	14 oz/a		B					
2,4-D LV ESTER	16 oz/a		B					
Liberty	29 oz/a		B					
N PAK AMS	1.5 qt/a		B					
CADET	0.6 oz/a		E					
Liberty	29 oz/a		E					
N PAK AMS	1.5 qt/a		E					
Liberty	29 oz/a		G					
N PAK AMS	1.5 qt/a		G					

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.
 Due to missing data, larger LSD values (col. 2: >=13.7 and <=15.4) are used for mean comparisons of treatment pairs with missing data.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 27 because error mean square = 0.

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015
 Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	LAMPU	RANAB	ERICA	LAMPU
Pest Scientific Name	Conyza canadensis> Lamium purpureum> Ranunculus abo>			Conyza canadensis> Lamium purpureum>	
Pest Name	Canada horsewee>	Purple deadnet>	Smallflower bu>	Canada horsewee>	Purple deadnet>
Rating Date	11-16-2015	11-16-2015	11-16-2015	12-2-2015	12-2-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	13 13	13 13	13 13	29 29	29 29
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	29 DA-A	29 DA-A
Plant-Eval Interval	-161 DP-1	-161 DP-1	-161 DP-1	-145 DP-1	-145 DP-1
Days After Emergence	-167 DE-1	-167 DE-1	-167 DE-1	-151 DE-1	-151 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*
5	AUTHORITY MTZ	8 oz/a		A	78 a	43 a		83 bc	72 abc
	WEEDMASTER	32 oz/a		A					
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY ASSIST	5 oz/a		B					
	SENCOR	5 oz/a		B					
	2,4-D LV ESTER	16 oz/a		B					
	Liberty	29 oz/a		B					
	N PAK AMS	1.5 qt/a		B					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					
6	2,4-D LV ESTER	16 oz/a		A	63 bc	40 a	31 a	81 c	53 d
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY MTZ	14 oz/a		C					
	Gramoxone SL	44 oz/a		C					
	AIM	1 oz/a		C					
	N PAK AMS	1.5 qt/a		C					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					
7	2,4-D LV ESTER	16 oz/a		A	57 c	40 a	28 a	81 c	67 bcd
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY MTZ	14 oz/a		C					
	Gramoxone SL	44 oz/a		C					
	BUTYRAC 200	12 oz/a		C					
	AIM	1 oz/a		C					
	N PAK AMS	1.5 qt/a		C					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					
8	2,4-D LV ESTER	16 oz/a		A	57 c	43 a		81 c	70 bc
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY MTZ	14 oz/a		B					
	AIM	1 oz/a		B					
	Gramoxone SL	44 oz/a		B					
	2,4-D LV ESTER	16 oz/a		B					
	N PAK AMS	1.5 qt/a		B					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015
 Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	ERICA	LAMPU	RANAB	ERICA	LAMPU			
Pest Scientific Name	Conyza canadensis> Lamium purpureum> Ranunculus abo> Conyza canadensis> Lamium purpureum>							
Pest Name	Canada horsewee>	Purple deadnet>	Smallflower bu>	Canada horsewee>	Purple deadnet>			
Rating Date	11-16-2015	11-16-2015	11-16-2015	12-2-2015	12-2-2015			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	13 13	13 13	13 13	29 29	29 29			
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	29 DA-A	29 DA-A			
Plant-Eval Interval	-161 DP-1	-161 DP-1	-161 DP-1	-145 DP-1	-145 DP-1			
Days After Emergence	-167 DE-1	-167 DE-1	-167 DE-1	-151 DE-1	-151 DE-1			
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*
9 AUTHORITY MTZ	8 oz/a		A	78 a	47 a	43 a	85 bc	73 abc
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
Liberty	29 oz/a		D					
Anthem Maxx	3 oz/a		D					
Liberty	29 oz/a		F					
N PAK AMS	1.5 qt/a		F					
10 AUTHORITY MTZ	8 oz/a		A	70 ab	43 a	49 a	87 b	60 cd
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
Liberty	29 oz/a		D					
Anthem Maxx	3 oz/a		D					
Liberty	29 oz/a		F					
N PAK AMS	1.5 qt/a		F					
11 AUTHORITY MTZ	8 oz/a		A	68 ab	40 a		86 bc	77 ab
CLASSIC	1 oz/a		A					
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
Liberty	29 oz/a		D					
Anthem Maxx	3 oz/a		D					
Liberty	29 oz/a		F					
N PAK AMS	1.5 qt/a		F					
12 AUTHORITY XL	3.2 oz/a		A	70 ab	53 a		85 bc	78 ab
SENCOR	4 oz/a		A					
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
Liberty	29 oz/a		D					
Anthem Maxx	3 oz/a		D					
Liberty	29 oz/a		F					
N PAK AMS	1.5 qt/a		F					
LSD P=.05				10.6	13.7	17.4	5.3	14.7
Standard Deviation				6.3	8.0	8.3	3.1	8.7
CV				9.95	20.94	38.17	3.99	13.24
Bartlett's X2				8.627	1.305	0.436	21.746	8.817
P(Bartlett's X2)				0.472	0.998	0.804	0.016*	0.454
Skewness				-2.1501*	-1.4884*	-1.0934	-2.9701*	-2.0383*
Kurtosis				4.3722*	2.1368*	-0.2461	7.6936*	4.0127*
Replicate F				5.315	3.705	0.180	0.141	0.065
Replicate Prob(F)				0.0131	0.0428	0.8404	0.8690	0.9377
Treatment F				34.510	8.776	10.456	191.160	19.822
Treatment Prob(F)				0.0001	0.0001	0.0100	0.0001	0.0001

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015
 Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	RANAB	SENGL	ERICA	LAMPU	AMBTR
Pest Scientific Name	Ranunculus	Senecio glabel>	Conyza canadens>	Lamium	Ambrosia trifi>
Pest Name	Smallflower bu>	Cressleaf grou>	Canada horsewe>	Purple deadnet>	Giant ragweed
Rating Date	12-2-2015	12-2-2015	4-26-2016	4-26-2016	4-26-2016
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	29 29	29 29	175 6	175 6	175 6
Trt-Eval Interval	29 DA-A	29 DA-A			
Plant-Eval Interval	-145 DP-1	-145 DP-1	1 DP-1	1 DP-1	1 DP-1
Days After Emergence	-151 DE-1	-151 DE-1	-5 DE-1	-5 DE-1	-5 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	6*	7*	8*	9*	10*	
1	UNTREATED					0 -	0 c	0 c	0 c	0 d
2	AUTHORITY MTZ	8 oz/a		A			70 ab	100 a	99 a	100 a
	WEEDMASTER	32 oz/a		A						
	COC	1 % v/v		A						
	N PAK AMS	1.5 qt/a		A						
	AUTHORITY MAXX	6.4 oz/a		B						
	2,4-D LV ESTER	16 oz/a		B						
	Liberty	29 oz/a		B						
	N PAK AMS	1.5 qt/a		B						
	CADET	0.6 oz/a		E						
	Liberty	29 oz/a		E						
	N PAK AMS	1.5 qt/a		E						
	Liberty	29 oz/a		G						
	N PAK AMS	1.5 qt/a		G						
3	AUTHORITY MTZ	8 oz/a		A	64 -	78 ab	100 a	90 a	100 a	
	WEEDMASTER	32 oz/a		A						
	COC	1 % v/v		A						
	N PAK AMS	1.5 qt/a		A						
	AUTHORITY XL	3.2 oz/a		B						
	2,4-D LV ESTER	16 oz/a		B						
	Liberty	29 oz/a		B						
	N PAK AMS	1.5 qt/a		B						
	CADET	0.6 oz/a		E						
	Liberty	29 oz/a		E						
	N PAK AMS	1.5 qt/a		E						
	Liberty	29 oz/a		G						
	N PAK AMS	1.5 qt/a		G						
4	AUTHORITY MAXX	5 oz/a		A	82 -		100 a	100 a	100 a	
	WEEDMASTER	32 oz/a		A						
	COC	1 % v/v		A						
	N PAK AMS	1.5 qt/a		A						
	AUTHORITY MTZ	14 oz/a		B						
	2,4-D LV ESTER	16 oz/a		B						
	Liberty	29 oz/a		B						
	N PAK AMS	1.5 qt/a		B						
	CADET	0.6 oz/a		E						
	Liberty	29 oz/a		E						
	N PAK AMS	1.5 qt/a		E						
	Liberty	29 oz/a		G						
	N PAK AMS	1.5 qt/a		G						

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015
 Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	RANAB	SENGL	ERICA	LAMPU	AMBTR
Pest Scientific Name	Ranunculus	Senecio glabel>	Conyza canadens>	Lamium	Ambrosia trifi>
Pest Name	abo>	Smallflower bu>	Cressleaf grou>	Canada horsewe>	Purple deadnet>
Rating Date	12-2-2015	12-2-2015	4-26-2016	4-26-2016	4-26-2016
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	29 29	29 29	175 6	175 6	175 6
Trt-Eval Interval	29 DA-A	29 DA-A			
Plant-Eval Interval	-145 DP-1	-145 DP-1	1 DP-1	1 DP-1	1 DP-1
Days After Emergence	-151 DE-1	-151 DE-1	-5 DE-1	-5 DE-1	-5 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	6*	7*	8*	9*	10*
5	AUTHORITY MTZ	8 oz/a		A	80 -	73 ab	100 a	91 a	100 a
	WEEDMASTER	32 oz/a		A					
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY ASSIST	5 oz/a		B					
	SENCOR	5 oz/a		B					
	2,4-D LV ESTER	16 oz/a		B					
	Liberty	29 oz/a		B					
	N PAK AMS	1.5 qt/a		B					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					
6	2,4-D LV ESTER	16 oz/a		A	62 -	50 b	98 b	30 b	50 bc
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY MTZ	14 oz/a		C					
	Gramoxone SL	44 oz/a		C					
	AIM	1 oz/a		C					
	N PAK AMS	1.5 qt/a		C					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					
7	2,4-D LV ESTER	16 oz/a		A	43 -	48 b	100 a	76 a	83 ab
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY MTZ	14 oz/a		C					
	Gramoxone SL	44 oz/a		C					
	BUTYRAC 200	12 oz/a		C					
	AIM	1 oz/a		C					
	N PAK AMS	1.5 qt/a		C					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					
8	2,4-D LV ESTER	16 oz/a		A		42 b	100 a	99 a	100 a
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY MTZ	14 oz/a		B					
	AIM	1 oz/a		B					
	Gramoxone SL	44 oz/a		B					
	2,4-D LV ESTER	16 oz/a		B					
	N PAK AMS	1.5 qt/a		B					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015
 Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	RANAB	SENGL	ERICA	LAMPU	AMBTR			
Pest Scientific Name	Ranunculus Senecio glabel> Conyza canadens> abo>			Lamium Ambrosia trifi> purpure>				
Pest Name	Smallflower bu> Cressleaf grou>		Canada horsewe>	Purple deadnet>	Giant ragweed			
Rating Date	12-2-2015	12-2-2015	4-26-2016	4-26-2016	4-26-2016			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	29 29	29 29	175 6	175 6	175 6			
Trt-Eval Interval	29 DA-A	29 DA-A						
Plant-Eval Interval	-145 DP-1	-145 DP-1	1 DP-1	1 DP-1	1 DP-1			
Days After Emergence	-151 DE-1	-151 DE-1	-5 DE-1	-5 DE-1	-5 DE-1			
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	6*	7*	8*	9*	10*
9 AUTHORITY MTZ	8 oz/a		A	80 -	50 b	100 a	77 a	83 ab
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
Liberty	29 oz/a		D					
Anthem Maxx	3 oz/a		D					
Liberty	29 oz/a		F					
N PAK AMS	1.5 qt/a		F					
10 AUTHORITY MTZ	8 oz/a		A	57 -	53 ab	100 a	17 bc	33 cd
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
Liberty	29 oz/a		D					
Anthem Maxx	3 oz/a		D					
Liberty	29 oz/a		F					
N PAK AMS	1.5 qt/a		F					
11 AUTHORITY MTZ	8 oz/a		A			100 a	96 a	93 a
CLASSIC	1 oz/a		A					
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
Liberty	29 oz/a		D					
Anthem Maxx	3 oz/a		D					
Liberty	29 oz/a		F					
N PAK AMS	1.5 qt/a		F					
12 AUTHORITY XL	3.2 oz/a		A		81 a	100 a	100 a	93 a
SENCOR	4 oz/a		A					
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
Liberty	29 oz/a		D					
Anthem Maxx	3 oz/a		D					
Liberty	29 oz/a		F					
N PAK AMS	1.5 qt/a		F					
LSD P=.05				40.4	29.0	1.4	25.8	41.0
Standard Deviation				17.8	16.3	0.8	15.2	24.2
CV				60.67	38.48	0.91	20.88	31.06
Bartlett's X2				1.586	6.317	0.0	22.795	9.92
P(Bartlett's X2)				0.453	0.503	.	0.004*	0.078
Skewness				-0.7321	-0.6786	-3.143*	-1.1397*	-1.5414*
Kurtosis				-0.8516	-0.4376	8.3512*	-0.2803	0.7535
Replicate F				0.073	0.272	1.000	0.058	0.175
Replicate Prob(F)				0.9311	0.7661	0.3840	0.9440	0.8407
Treatment F				5.130	5.827	3590.091	16.893	5.481
Treatment Prob(F)				0.0666	0.0031	0.0001	0.0001	0.0004

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015
 Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	RANAB	ERYRE	SENGL	TRZAW	ERICA
Pest Scientific Name	Ranunculus abo>	Erysimum repa>	Senecio glabel>	Triticum aesti>	Conyza canad>
Pest Name	Smallflower bu>	Bushy wallflow>	Cressleaf grou>	Winter wheat	Canada horsewe>
Rating Date	4-26-2016	4-26-2016	4-26-2016	4-26-2016	5-11-2016
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	175 6	175 6	175 6	175 6	190 15
Trt-Eval Interval					
Plant-Eval Interval	1 DP-1	1 DP-1	1 DP-1	1 DP-1	16 DP-1
Days After Emergence	-5 DE-1	-5 DE-1	-5 DE-1	-5 DE-1	10 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	11*	12*	13*	14*	15*
1	UNTREATED				0 d	0 d	0 c	0 d	0 c
2	AUTHORITY MTZ	8 oz/a		A	100 a	100 ab	100 a	53 b	100 a
	WEEDMASTER	32 oz/a		A					
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY MAXX	6.4 oz/a		B					
	2,4-D LV ESTER	16 oz/a		B					
	Liberty	29 oz/a		B					
	N PAK AMS	1.5 qt/a		B					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					
3	AUTHORITY MTZ	8 oz/a		A	93 ab	100 ab	100 a	57 b	100 a
	WEEDMASTER	32 oz/a		A					
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY XL	3.2 oz/a		B					
	2,4-D LV ESTER	16 oz/a		B					
	Liberty	29 oz/a		B					
	N PAK AMS	1.5 qt/a		B					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					
4	AUTHORITY MAXX	5 oz/a		A	100 a	100 ab	100 a	17 cd	100 a
	WEEDMASTER	32 oz/a		A					
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY MTZ	14 oz/a		B					
	2,4-D LV ESTER	16 oz/a		B					
	Liberty	29 oz/a		B					
	N PAK AMS	1.5 qt/a		B					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015
 Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	RANAB	ERYRE	SENGL	TRZAW	ERICA
Pest Scientific Name	Ranunculus abo>	Erysimum repa>	Senecio glabel>	Triticum aesti>	Conyza canadens>
Pest Name	Smallflower bu>	Bushy wallflow>	Cressleaf grou>	Winter wheat	Canada horsewe>
Rating Date	4-26-2016	4-26-2016	4-26-2016	4-26-2016	5-11-2016
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	175 6	175 6	175 6	175 6	190 15
Trt-Eval Interval					
Plant-Eval Interval	1 DP-1	1 DP-1	1 DP-1	1 DP-1	16 DP-1
Days After Emergence	-5 DE-1	-5 DE-1	-5 DE-1	-5 DE-1	10 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	11*	12*	13*	14*	15*
5	AUTHORITY MTZ	8 oz/a		A	100 a	100 ab	100 a	23 c	100 a
	WEEDMASTER	32 oz/a		A					
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY ASSIST	5 oz/a		B					
	SENCOR	5 oz/a		B					
	2,4-D LV ESTER	16 oz/a		B					
	Liberty	29 oz/a		B					
	N PAK AMS	1.5 qt/a		B					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					
6	2,4-D LV ESTER	16 oz/a		A	63 c	52 c	75 b	3 d	100 a
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY MTZ	14 oz/a		C					
	Gramoxone SL	44 oz/a		C					
	AIM	1 oz/a		C					
	N PAK AMS	1.5 qt/a		C					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					
7	2,4-D LV ESTER	16 oz/a		A	60 c	60 bc	80 ab	7 cd	100 a
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY MTZ	14 oz/a		C					
	Gramoxone SL	44 oz/a		C					
	BUTYRAC 200	12 oz/a		C					
	AIM	1 oz/a		C					
	N PAK AMS	1.5 qt/a		C					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					
8	2,4-D LV ESTER	16 oz/a		A	99 a	102 a	100 a	83 a	100 a
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY MTZ	14 oz/a		B					
	AIM	1 oz/a		B					
	Gramoxone SL	44 oz/a		B					
	2,4-D LV ESTER	16 oz/a		B					
	N PAK AMS	1.5 qt/a		B					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015
 Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	RANAB	ERYRE	SENGL	TRZAW	ERICA			
Pest Scientific Name	Ranunculus abo>	Erysimum repa>	Senecio glabel>	Triticum aesti>	Conyza canadens>			
Pest Name	Smallflower bu>	Bushy wallflow>	Cressleaf grou>	Winter wheat	Canada horsewe>			
Rating Date	4-26-2016	4-26-2016	4-26-2016	4-26-2016	5-11-2016			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	175 6	175 6	175 6	175 6	190 15			
Trt-Eval Interval								
Plant-Eval Interval	1 DP-1	1 DP-1	1 DP-1	1 DP-1	16 DP-1			
Days After Emergence	-5 DE-1	-5 DE-1	-5 DE-1	-5 DE-1	10 DE-1			
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	11*	12*	13*	14*	15*
9 AUTHORITY MTZ	8 oz/a		A	70 bc	90 abc	101 a	7 cd	63 b
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
Liberty	29 oz/a		D					
Anthem Maxx	3 oz/a		D					
Liberty	29 oz/a		F					
N PAK AMS	1.5 qt/a		F					
10 AUTHORITY MTZ	8 oz/a		A	57 c	60 bc		17 cd	73 ab
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
Liberty	29 oz/a		D					
Anthem Maxx	3 oz/a		D					
Liberty	29 oz/a		F					
N PAK AMS	1.5 qt/a		F					
11 AUTHORITY MTZ	8 oz/a		A	97 a	102 a	100 a	7 cd	100 a
CLASSIC	1 oz/a		A					
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
Liberty	29 oz/a		D					
Anthem Maxx	3 oz/a		D					
Liberty	29 oz/a		F					
N PAK AMS	1.5 qt/a		F					
12 AUTHORITY XL	3.2 oz/a		A	100 a	100 ab	100 a	10 cd	100 a
SENCOR	4 oz/a		A					
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
Liberty	29 oz/a		D					
Anthem Maxx	3 oz/a		D					
Liberty	29 oz/a		F					
N PAK AMS	1.5 qt/a		F					
LSD P=.05				25.9	37.0	14.4	17.0	27.0
Standard Deviation				15.3	21.6	8.3	10.1	15.9
CV				19.57	30.71	10.89	42.62	18.43
Bartlett's X2				15.931	4.02	0.0	6.348	0.731
P(Bartlett's X2)				0.007*	0.259	.	0.785	0.392
Skewness				-1.465*	-1.4787*	-2.396*	1.0562*	-2.2352*
Kurtosis				1.0653	0.7138	4.3559*	0.0911	3.5526*
Replicate F				1.092	0.447	0.972	1.180	0.307
Replicate Prob(F)				0.3531	0.6462	0.3995	0.3261	0.7389
Treatment F				11.745	6.026	38.659	20.616	10.577
Treatment Prob(F)				0.0001	0.0004	0.0001	0.0001	0.0001

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015
 Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	LAMPU	RANAB	SENGL	ERYRE	ERICA	
Pest Scientific Name	Lamium purpure> Ranunculus abo> Senecio glabel> Erysimum repa> Conyza canadens>					
Pest Name	Purple deadnet>		Smallflower bu>	Cressleaf grou>	Bushy wallflow>	Canada horsewe>
Rating Date	5-11-2016		5-11-2016	5-11-2016	5-11-2016	5-26-2016
Rating Type	CONTRO		CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%		%	%	%	%
Number of Subsamples	1		1	1	1	1
Days After First/Last Applic.	190 15		190 15	190 15	190 15	205 30
Trt-Eval Interval	16 DP-1		16 DP-1	16 DP-1	16 DP-1	31 DP-1
Plant-Eval Interval	10 DE-1		10 DE-1	10 DE-1	10 DE-1	25 DE-1
Number of Decimals	0		0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	16*	17*	18*	19*	20*
1	UNTREATED				0 c	0 c	0 b	0 c	0 e
2	AUTHORITY MTZ	8 oz/a	A		100 a	100 a	100 a	100 a	100 a
	WEEDMASTER	32 oz/a	A						
	COC	1 % v/v	A						
	N PAK AMS	1.5 qt/a	A						
	AUTHORITY MAXX	6.4 oz/a	B						
	2,4-D LV ESTER	16 oz/a	B						
	Liberty	29 oz/a	B						
	N PAK AMS	1.5 qt/a	B						
	CADET	0.6 oz/a	E						
	Liberty	29 oz/a	E						
	N PAK AMS	1.5 qt/a	E						
	Liberty	29 oz/a	G						
	N PAK AMS	1.5 qt/a	G						
3	AUTHORITY MTZ	8 oz/a	A		100 a	100 a	100 a	100 a	100 a
	WEEDMASTER	32 oz/a	A						
	COC	1 % v/v	A						
	N PAK AMS	1.5 qt/a	A						
	AUTHORITY XL	3.2 oz/a	B						
	2,4-D LV ESTER	16 oz/a	B						
	Liberty	29 oz/a	B						
	N PAK AMS	1.5 qt/a	B						
	CADET	0.6 oz/a	E						
	Liberty	29 oz/a	E						
	N PAK AMS	1.5 qt/a	E						
	Liberty	29 oz/a	G						
	N PAK AMS	1.5 qt/a	G						
4	AUTHORITY MAXX	5 oz/a	A		100 a	100 a	100 a	100 a	100 a
	WEEDMASTER	32 oz/a	A						
	COC	1 % v/v	A						
	N PAK AMS	1.5 qt/a	A						
	AUTHORITY MTZ	14 oz/a	B						
	2,4-D LV ESTER	16 oz/a	B						
	Liberty	29 oz/a	B						
	N PAK AMS	1.5 qt/a	B						
	CADET	0.6 oz/a	E						
	Liberty	29 oz/a	E						
	N PAK AMS	1.5 qt/a	E						
	Liberty	29 oz/a	G						
	N PAK AMS	1.5 qt/a	G						

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015
 Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	LAMPU	RANAB	SENGL	ERYRE	ERICA	
Pest Scientific Name	Lamium purpure> Ranunculus abo> Senecio glabel> Erysimum repa> Conyza canadens>					
Pest Name	Purple deadnet>		Smallflower bu>	Cressleaf grou>	Bushy wallflow>	Canada horsewe>
Rating Date	5-11-2016		5-11-2016	5-11-2016	5-11-2016	5-26-2016
Rating Type	CONTRO		CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%		%	%	%	%
Number of Subsamples	1		1	1	1	1
Days After First/Last Applic.	190 15		190 15	190 15	190 15	205 30
Trt-Eval Interval	16 DP-1		16 DP-1	16 DP-1	16 DP-1	31 DP-1
Plant-Eval Interval	10 DE-1		10 DE-1	10 DE-1	10 DE-1	25 DE-1
Number of Decimals	0		0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	16*	17*	18*	19*	20*
5	AUTHORITY MTZ	8 oz/a		A	100 a	100 a	100 a	100 a	100 a
	WEEDMASTER	32 oz/a		A					
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY ASSIST	5 oz/a		B					
	SENCOR	5 oz/a		B					
	2,4-D LV ESTER	16 oz/a		B					
	Liberty	29 oz/a		B					
	N PAK AMS	1.5 qt/a		B					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					
6	2,4-D LV ESTER	16 oz/a		A	100 a	100 a	100 a	100 a	100 a
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY MTZ	14 oz/a		C					
	Gramoxone SL	44 oz/a		C					
	AIM	1 oz/a		C					
	N PAK AMS	1.5 qt/a		C					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					
7	2,4-D LV ESTER	16 oz/a		A	100 a	100 a	100 a	100 a	100 a
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY MTZ	14 oz/a		C					
	Gramoxone SL	44 oz/a		C					
	BUTYRAC 200	12 oz/a		C					
	AIM	1 oz/a		C					
	N PAK AMS	1.5 qt/a		C					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					
8	2,4-D LV ESTER	16 oz/a		A	100 a	100 a	98 a	100 a	100 a
	COC	1 % v/v		A					
	N PAK AMS	1.5 qt/a		A					
	AUTHORITY MTZ	14 oz/a		B					
	AIM	1 oz/a		B					
	Gramoxone SL	44 oz/a		B					
	2,4-D LV ESTER	16 oz/a		B					
	N PAK AMS	1.5 qt/a		B					
	CADET	0.6 oz/a		E					
	Liberty	29 oz/a		E					
	N PAK AMS	1.5 qt/a		E					
	Liberty	29 oz/a		G					
	N PAK AMS	1.5 qt/a		G					

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015
 Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	LAMPU	RANAB	SENGL	ERYRE	ERICA			
Pest Scientific Name	Lamium purpure> Ranunculus abo> Senecio glabel> Erysimum repa> Conyza canadens>							
Pest Name	Purple deadnet>		Smallflower bu>	Cressleaf grou>	Bushy wallflow>	Canada horsewe>		
Rating Date	5-11-2016		5-11-2016	5-11-2016	5-11-2016	5-26-2016		
Rating Type	CONTRO		CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%		%	%	%	%		
Number of Subsamples	1		1	1	1	1		
Days After First/Last Applic.	190 15		190 15	190 15	190 15	205 30		
Trt-Eval Interval	16 DP-1		16 DP-1	16 DP-1	16 DP-1	31 DP-1		
Plant-Eval Interval	10 DE-1		10 DE-1	10 DE-1	10 DE-1	25 DE-1		
Number of Decimals	0		0	0	0	0		
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	16*	17*	18*	19*	20*
9 AUTHORITY MTZ	8 oz/a		A	73 b	43 b	90 a	100 a	47 d
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
Liberty	29 oz/a		D					
Anthem Maxx	3 oz/a		D					
Liberty	29 oz/a		F					
N PAK AMS	1.5 qt/a		F					
10 AUTHORITY MTZ	8 oz/a		A	10 c	41 b	83 a	60 b	65 c
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
Liberty	29 oz/a		D					
Anthem Maxx	3 oz/a		D					
Liberty	29 oz/a		F					
N PAK AMS	1.5 qt/a		F					
11 AUTHORITY MTZ	8 oz/a		A	100 a	100 a	100 a	100 a	77 bc
CLASSIC	1 oz/a		A					
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
Liberty	29 oz/a		D					
Anthem Maxx	3 oz/a		D					
Liberty	29 oz/a		F					
N PAK AMS	1.5 qt/a		F					
12 AUTHORITY XL	3.2 oz/a		A	100 a	100 a	100 a	100 a	80 b
SENCOR	4 oz/a		A					
WEEDMASTER	32 oz/a		A					
COC	1 % v/v		A					
N PAK AMS	1.5 qt/a		A					
Liberty	29 oz/a		D					
Anthem Maxx	3 oz/a		D					
Liberty	29 oz/a		F					
N PAK AMS	1.5 qt/a		F					
LSD P=.05				15.4	12.6	16.9	17.6	14.8
Standard Deviation				9.1	7.4	10.0	10.4	8.7
CV				11.12	9.17	11.19	11.78	10.81
Bartlett's X2				0.267	0.271	6.317	0.0	1.634
P(Bartlett's X2)				0.605	0.603	0.042*	.	0.652
Skewness				-1.7212*	-1.7292*	-2.7065*	-2.5075*	-1.6738*
Kurtosis				1.2619	1.473	6.0969*	4.7937*	1.9074*
Replicate F				0.234	1.035	0.424	1.000	1.378
Replicate Prob(F)				0.7933	0.3727	0.6597	0.3840	0.2729
Treatment F				48.909	61.075	24.583	25.091	37.792
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015
 Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERYRE	SENGL	AMBTR	ERICA	SETFA	AMBTR
Pest Scientific Name	Erysimum repa>	Senecio glabel>	Ambrosia trifi>	Conyza canadens>	Setaria faberi	Ambrosia trifi>
Pest Name	Bushy wallflow>	Cressleaf grou>	Giant ragweed	Canada horsewe>	Giant foxtail	Giant ragweed
Rating Date	5-26-2016	5-26-2016	5-26-2016	6-21-2016	6-21-2016	6-21-2016
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	205 30	205 30	205 30	231 14	231 14	231 14
Trt-Eval Interval						
Plant-Eval Interval	31 DP-1	31 DP-1	31 DP-1	57 DP-1	57 DP-1	57 DP-1
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	51 DE-1	51 DE-1	51 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	21*	22*	23*	24*	25*	26*	
1	UNTREATED					0 c	0 c	0 f	0 c	0 d	0 f
2	AUTHORITY MTZ	8 oz/a		A	100 a	100 a	67 ab	100 a	99 ab	90 abc	
	WEEDMASTER	32 oz/a		A							
	COC	1 % v/v		A							
	N PAK AMS	1.5 qt/a		A							
	AUTHORITY MAXX	6.4 oz/a		B							
	2,4-D LV ESTER	16 oz/a		B							
	Liberty	29 oz/a		B							
	N PAK AMS	1.5 qt/a		B							
	CADET	0.6 oz/a		E							
	Liberty	29 oz/a		E							
	N PAK AMS	1.5 qt/a		E							
	Liberty	29 oz/a		G							
	N PAK AMS	1.5 qt/a		G							
3	AUTHORITY MTZ	8 oz/a		A	100 a	100 a	57 abc	97 ab	98 ab	93 ab	
	WEEDMASTER	32 oz/a		A							
	COC	1 % v/v		A							
	N PAK AMS	1.5 qt/a		A							
	AUTHORITY XL	3.2 oz/a		B							
	2,4-D LV ESTER	16 oz/a		B							
	Liberty	29 oz/a		B							
	N PAK AMS	1.5 qt/a		B							
	CADET	0.6 oz/a		E							
	Liberty	29 oz/a		E							
	N PAK AMS	1.5 qt/a		E							
	Liberty	29 oz/a		G							
	N PAK AMS	1.5 qt/a		G							
4	AUTHORITY MAXX	5 oz/a		A	100 a	100 a	60 abc	100 a	100 a	100 a	
	WEEDMASTER	32 oz/a		A							
	COC	1 % v/v		A							
	N PAK AMS	1.5 qt/a		A							
	AUTHORITY MTZ	14 oz/a		B							
	2,4-D LV ESTER	16 oz/a		B							
	Liberty	29 oz/a		B							
	N PAK AMS	1.5 qt/a		B							
	CADET	0.6 oz/a		E							
	Liberty	29 oz/a		E							
	N PAK AMS	1.5 qt/a		E							
	Liberty	29 oz/a		G							
	N PAK AMS	1.5 qt/a		G							

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015
 Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERYRE	SENGL	AMBTR	ERICA	SETFA	AMBTR
Pest Scientific Name	Erysimum repa>	Senecio glabel>	Ambrosia trifi>	Conyza canad>	Setaria faberi	Ambrosia trifi>
Pest Name	Bushy wallflow>	Cressleaf grou>	Giant ragweed	Canada horsewe>	Giant foxtail	Giant ragweed
Rating Date	5-26-2016	5-26-2016	5-26-2016	6-21-2016	6-21-2016	6-21-2016
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	205 30	205 30	205 30	231 14	231 14	231 14
Trt-Eval Interval						
Plant-Eval Interval	31 DP-1	31 DP-1	31 DP-1	57 DP-1	57 DP-1	57 DP-1
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	51 DE-1	51 DE-1	51 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	21*	22*	23*	24*	25*	26*
5	AUTHORITY MTZ	8 oz/a	A		100 a	98 a	37 cde	97 ab	94 abc	78 cd
	WEEDMASTER	32 oz/a	A							
	COC	1 % v/v	A							
	N PAK AMS	1.5 qt/a	A							
	AUTHORITY ASSIST	5 oz/a	B							
	SENCOR	5 oz/a	B							
	2,4-D LV ESTER	16 oz/a	B							
	Liberty	29 oz/a	B							
	N PAK AMS	1.5 qt/a	B							
	CADET	0.6 oz/a	E							
	Liberty	29 oz/a	E							
	N PAK AMS	1.5 qt/a	E							
	Liberty	29 oz/a	G							
	N PAK AMS	1.5 qt/a	G							
6	2,4-D LV ESTER	16 oz/a	A		100 a	98 a	65 ab	100 a	98 ab	99 a
	COC	1 % v/v	A							
	N PAK AMS	1.5 qt/a	A							
	AUTHORITY MTZ	14 oz/a	C							
	Gramoxone SL	44 oz/a	C							
	AIM	1 oz/a	C							
	N PAK AMS	1.5 qt/a	C							
	CADET	0.6 oz/a	E							
	Liberty	29 oz/a	E							
	N PAK AMS	1.5 qt/a	E							
	Liberty	29 oz/a	G							
	N PAK AMS	1.5 qt/a	G							
7	2,4-D LV ESTER	16 oz/a	A		100 a	100 a	77 a	100 a	99 ab	94 a
	COC	1 % v/v	A							
	N PAK AMS	1.5 qt/a	A							
	AUTHORITY MTZ	14 oz/a	C							
	Gramoxone SL	44 oz/a	C							
	BUTYRAC 200	12 oz/a	C							
	AIM	1 oz/a	C							
	N PAK AMS	1.5 qt/a	C							
	CADET	0.6 oz/a	E							
	Liberty	29 oz/a	E							
	N PAK AMS	1.5 qt/a	E							
	Liberty	29 oz/a	G							
	N PAK AMS	1.5 qt/a	G							
8	2,4-D LV ESTER	16 oz/a	A		100 a	98 a	50 bcd	100 a	100 a	81 bcd
	COC	1 % v/v	A							
	N PAK AMS	1.5 qt/a	A							
	AUTHORITY MTZ	14 oz/a	B							
	AIM	1 oz/a	B							
	Gramoxone SL	44 oz/a	B							
	2,4-D LV ESTER	16 oz/a	B							
	N PAK AMS	1.5 qt/a	B							
	CADET	0.6 oz/a	E							
	Liberty	29 oz/a	E							
	N PAK AMS	1.5 qt/a	E							
	Liberty	29 oz/a	G							
	N PAK AMS	1.5 qt/a	G							

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

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

Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015

Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux

Project ID: Study Director:

Sponsor Contact:

Pest Type
 Pest Code
 Pest Scientific Name
 Pest Name
 Rating Date
 Rating Type
 Rating Unit
 Number of Subsamples 1
 Days After First/Last Applic.
 Trt-Eval Interval
 Plant-Eval Interval
 Days After Emergence
 Number of Decimals

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code
---------	----------------	------------	-----------------	-----------

1	UNTREATED			
2	AUTHORITY MTZ	8 oz/a		A
	WEEDMASTER	32 oz/a		A
	COC	1 % v/v		A
	N PAK AMS	1.5 qt/a		A
	AUTHORITY MAXX	6.4 oz/a		B
	2,4-D LV ESTER	16 oz/a		B
	Liberty	29 oz/a		B
	N PAK AMS	1.5 qt/a		B
	CADET	0.6 oz/a		E
	Liberty	29 oz/a		E
	N PAK AMS	1.5 qt/a		E
	Liberty	29 oz/a		G
	N PAK AMS	1.5 qt/a		G
3	AUTHORITY MTZ	8 oz/a		A
	WEEDMASTER	32 oz/a		A
	COC	1 % v/v		A
	N PAK AMS	1.5 qt/a		A
	AUTHORITY XL	3.2 oz/a		B
	2,4-D LV ESTER	16 oz/a		B
	Liberty	29 oz/a		B
	N PAK AMS	1.5 qt/a		B
	CADET	0.6 oz/a		E
	Liberty	29 oz/a		E
	N PAK AMS	1.5 qt/a		E
	Liberty	29 oz/a		G
	N PAK AMS	1.5 qt/a		G
4	AUTHORITY MAXX	5 oz/a		A
	WEEDMASTER	32 oz/a		A
	COC	1 % v/v		A
	N PAK AMS	1.5 qt/a		A
	AUTHORITY MTZ	14 oz/a		B
	2,4-D LV ESTER	16 oz/a		B
	Liberty	29 oz/a		B
	N PAK AMS	1.5 qt/a		B
	CADET	0.6 oz/a		E
	Liberty	29 oz/a		E
	N PAK AMS	1.5 qt/a		E
	Liberty	29 oz/a		G
	N PAK AMS	1.5 qt/a		G

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

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

Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015

Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux

Project ID: Study Director:

Sponsor Contact:

Pest Type
 Pest Code
 Pest Scientific Name
 Pest Name
 Rating Date
 Rating Type
 Rating Unit
 Number of Subsamples 1
 Days After First/Last Applic.
 Trt-Eval Interval
 Plant-Eval Interval
 Days After Emergence
 Number of Decimals

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code 27
5	AUTHORITY MTZ	8 oz/a		A
	WEEDMASTER	32 oz/a		A
	COC	1 % v/v		A
	N PAK AMS	1.5 qt/a		A
	AUTHORITY ASSIST	5 oz/a		B
	SENCOR	5 oz/a		B
	2,4-D LV ESTER	16 oz/a		B
	Liberty	29 oz/a		B
	N PAK AMS	1.5 qt/a		B
	CADET	0.6 oz/a		E
	Liberty	29 oz/a		E
	N PAK AMS	1.5 qt/a		E
	Liberty	29 oz/a		G
	N PAK AMS	1.5 qt/a		G
6	2,4-D LV ESTER	16 oz/a		A
	COC	1 % v/v		A
	N PAK AMS	1.5 qt/a		A
	AUTHORITY MTZ	14 oz/a		C
	Gramoxone SL	44 oz/a		C
	AIM	1 oz/a		C
	N PAK AMS	1.5 qt/a		C
	CADET	0.6 oz/a		E
	Liberty	29 oz/a		E
	N PAK AMS	1.5 qt/a		E
	Liberty	29 oz/a		G
	N PAK AMS	1.5 qt/a		G
7	2,4-D LV ESTER	16 oz/a		A
	COC	1 % v/v		A
	N PAK AMS	1.5 qt/a		A
	AUTHORITY MTZ	14 oz/a		C
	Gramoxone SL	44 oz/a		C
	BUTYRAC 200	12 oz/a		C
	AIM	1 oz/a		C
	N PAK AMS	1.5 qt/a		C
	CADET	0.6 oz/a		E
	Liberty	29 oz/a		E
	N PAK AMS	1.5 qt/a		E
	Liberty	29 oz/a		G
	N PAK AMS	1.5 qt/a		G
8	2,4-D LV ESTER	16 oz/a		A
	COC	1 % v/v		A
	N PAK AMS	1.5 qt/a		A
	AUTHORITY MTZ	14 oz/a		B
	AIM	1 oz/a		B
	Gramoxone SL	44 oz/a		B
	2,4-D LV ESTER	16 oz/a		B
	N PAK AMS	1.5 qt/a		B
	CADET	0.6 oz/a		E
	Liberty	29 oz/a		E
	N PAK AMS	1.5 qt/a		E
	Liberty	29 oz/a		G
	N PAK AMS	1.5 qt/a		G

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015
 Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type
 Pest Code
 Pest Scientific Name
 Pest Name
 Rating Date
 Rating Type
 Rating Unit
 Number of Subsamples 1
 Days After First/Last Applic.
 Trt-Eval Interval
 Plant-Eval Interval
 Days After Emergence
 Number of Decimals

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code 27
9	AUTHORITY MTZ	8 oz/a		A
	WEEDMASTER	32 oz/a		A
	COC	1 % v/v		A
	N PAK AMS	1.5 qt/a		A
	Liberty	29 oz/a		D
	Anthem Maxx	3 oz/a		D
	Liberty	29 oz/a		F
	N PAK AMS	1.5 qt/a		F
10	AUTHORITY MTZ	8 oz/a		A
	WEEDMASTER	32 oz/a		A
	COC	1 % v/v		A
	N PAK AMS	1.5 qt/a		A
	Liberty	29 oz/a		D
	Anthem Maxx	3 oz/a		D
	Liberty	29 oz/a		F
	N PAK AMS	1.5 qt/a		F
11	AUTHORITY MTZ	8 oz/a		A
	CLASSIC	1 oz/a		A
	WEEDMASTER	32 oz/a		A
	COC	1 % v/v		A
	N PAK AMS	1.5 qt/a		A
	Liberty	29 oz/a		D
	Anthem Maxx	3 oz/a		D
	Liberty	29 oz/a		F
	N PAK AMS	1.5 qt/a		F
12	AUTHORITY XL	3.2 oz/a		A
	SENCOR	4 oz/a		A
	WEEDMASTER	32 oz/a		A
	COC	1 % v/v		A
	N PAK AMS	1.5 qt/a		A
	Liberty	29 oz/a		D
	Anthem Maxx	3 oz/a		D
	Liberty	29 oz/a		F
	N PAK AMS	1.5 qt/a		F

LSD P=.05 .
 Standard Deviation .
 CV .
 Bartlett's X2 .
 P(Bartlett's X2) .
 Skewness .
 Kurtosis .

Replicate F
 Replicate Prob(F)
 Treatment F
 Treatment Prob(F)

The Ohio State University

2015/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT/RR SOYBEANS

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

Trial ID: 16FALLSOY1 Location: Western Branch F-10 W Trial Year: 2015

Protocol ID: SULF.SOY.15.JPR.21 Investigator: Dr. Mark M. Loux

Project ID: Study Director:

Sponsor Contact:

Pest Type

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

Pest Code

ERICA, Conyza canadensis, = ERICA, Conyza canadensis,

LAMPU, Lamium purpureum, = US

RANAB, Ranunculus abortivus, = US

SENGL, Senecio glabellus, = US

AMBTR, Ambrosia trifida, = US

ERYRE, Erysimum repandum, = US

TRZAW, Triticum aestivum (winter), = TRZAW, Triticum aestivum (winter),

SETFA, Setaria faberi, = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

-161 DP-1 = 1 GLXMA 4-25-2016

-145 DP-1 = 1 GLXMA 4-25-2016

1 DP-1 = 1 GLXMA 4-25-2016

16 DP-1 = 1 GLXMA 4-25-2016

31 DP-1 = 1 GLXMA 4-25-2016

57 DP-1 = 1 GLXMA 4-25-2016