

The Ohio State University

FG72 IFT weed control systems
 Trial ID: 18 BALANCEDEMO
 Protocol ID: 18 BALANCEDEMO
 Project ID: HP18USAXP4/SULFSOY.03

Location: Trial Year: 2018
 Investigator: Dr. Mark M. Loux
 Study Director: Bryan Reeb
 Sponsor Contact: Dave Lamore, Bayer/Joe Reed FMC

General Trial Information

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Discipline: H herbicide
Initiation Date: May-11-2018

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 °: 39.85941 N
Longitude of LL Corner °: 83.67073 W
Altitude of LL Corner, Unit: 1090.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: Stine 34BA20 **BBCH Scale:** BSOY
Description: Stine FG-72

Planting Rate, Unit: 170000 S/A
Depth, Unit: 1.25 IN
Soil Temperature, Unit: 61 F
Soil Moisture: NORMAL normal, adequate
Seed Bed: MEDIUM medium

Planting Date: May-11-2018
Planting Method: PLANTD planted
Planting Equipment: FE field equipment
Emergence Date: May-17-2018

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail

Pest 2 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Common barnyard grass

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

Pest 4 Type: W **Code:** AMARE *Amaranthus retroflexus*
Common Name: Redroot pigweed

Pest 5 Type: W **Code:** POLPY *Persicaria pensylvanica*
Common Name: annual smartweed

Pest 6 Type: W **Code:** IPOHE *Ipomoea hederacea*
Common Name: ivy-leaf morning glory

Pest 7 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: common lambsquarters

Pest 8 Type: W **Code:** SIDSP *Sida spinosa*
Common Name: Prickly sida

Site and Design

Treated Plot Width: 6.67 FT
Treated Plot Length: 30 FT
Treated Plot Area: 200.1 FT2 **Treatments:** 14
Replications: 3

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

No. Previous Crop Year
 1. CORN 2017

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Soil Description

Description Name: F-8 East
% Sand: 37 **% OM:** 2.7 **Texture:** L loam
% Silt: 49 **pH:** 6 **Soil Name:** Kokomo
% Clay: 15 **CEC:** 16.9 **Fert. Level:** G good
Soil Drainage: G good

Application Description

	A	B
Application Date:	May-11-2018	Jun-14-2018
Appl. Start Time:	12:50 PM	1:00 PM
Appl. Stop Time:	1:00 PM	1:15 PM
Interval to Prev. Appl., Unit:		34 DAYS
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Application Placement:	BROSOI	BROFOL
Applied By:	Boden	Reeb
Air Temperature, Unit:	72 F	77 F
% Relative Humidity:	57	39
Wind Velocity, Unit:	10 MPH	2 MPH
Wind Direction:	SE	NNE
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	62 F	72 F
Soil Moisture:	NORMAL	WET
% Cloud Cover:	15	0
Next Moisture Occurred On:	May-15-2018	Jun-19-2018
Time to Next Moisture, Unit:	4 DAY	5 DAY
Moisture 1 Week after Appl.:	0.93 IN	1.44 IN

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		61 100
Height, Unit:		10 IN
Height Minimum, Maximum:		9 12

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	15	90
Stage Minimum, Percent:	14	10
Stage Maximum, Percent:	15	90
Height, Unit:	4	IN
Height Minimum, Maximum:	1	10
Density, Unit:	320	PLA/m2
Pest 2 Code, Type, Scale:	ECHCG W	ECHCG W
Stage Majority, Percent:	17	80
Stage Minimum, Percent:	16	20
Stage Maximum, Percent:	17	80
Height, Unit:	6	IN
Height Minimum, Maximum:	2	12
Density, Unit:	176	PLA/m2
Pest 3 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	19	80
Stage Minimum, Percent:	16	20
Stage Maximum, Percent:	19	80
Height, Unit:	5	IN
Height Minimum, Maximum:	4	8
Density, Unit:	13	PLA/m2
Pest 4 Code, Type, Scale:	AMARE W	AMARE W
Stage Majority, Percent:	16	80
Stage Minimum, Percent:	14	20
Stage Maximum, Percent:	80	
Height, Unit:	2	IN
Height Minimum, Maximum:	1	3
Density, Unit:	19	PLA/m2
Pest 5 Code, Type, Scale:	POLPY W	POLPY W
Stage Majority, Percent:	19	100
Height, Unit:	3	IN
Height Minimum, Maximum:	2	4
Density, Unit:	0.33	PLA/m2
Pest 6 Code, Type, Scale:	IPOHE W	IPOHE W
Stage Majority, Percent:	16	70
Stage Minimum, Percent:	14	10
Stage Maximum, Percent:	18	20
Height, Unit:	3	IN
Height Minimum, Maximum:	2	4
Density, Unit:	3	PLA/m2
Pest 7 Code, Type, Scale:	CHEAL W	CHEAL W
Density, Unit:	7	PLA/m2
Pest 8 Code, Type, Scale:	SIDSP W	SIDSP W
Density, Unit:	8	PLA/m2

Application Equipment

	A	B
Appl. Equipment:	6' BACKPACK	10' BACKPACK
Equipment Type:	BACCAI	BACCAI
Operation Pressure, Unit:	44 PSI	44 PSI
Nozzle Type:	TTI	AIXR
Nozzle Size:	11015	11015
Nozzle Spacing, Unit:	18 IN	18 IN
Nozzles/Row:	4	6
Boom Length, Unit:	6.67 FT	10 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 gal/ac	15 gal/ac
Mix Size, Unit:	1 L	3 GAL
Propellant:	COMCO2	COMCO2

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Pest Type	O Other	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	AMARE				
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>				
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>	Redroot pigweed				
Rating Date	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-13-2018			
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Days After First/Last Applic.	33 33	33 33	33 33	33 33	33 33	33 33			
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A			
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1	33 DP-1	33 DP-1			
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1			
Trt Treatment	Other	Other	Appl						
No. Name	Rate	Rate	Unit Code	1*	2*	3*	4*	5*	6*
1 UTC				0.0 -	0.0 e	0.0 f	0.0 b	0.0 -	0.0 c
2 Balance Bean	3 oz/a		A	0.0 -	50.0 cd	26.7 de	40.0 a	100.0 -	65.0 b
2 Roundup Power Max	32 oz/a		B						
2 N-pak ams	1.5 qt/a		B						
3 Balance Bean	3 oz/a		A	0.0 -	50.0 cd	36.7 cde	35.0 a	100.0 -	93.3 a
3 Valor SX	2 oz/a		A						
3 Roundup Power Max	32 oz/a		B						
3 N-pak ams	1.5 qt/a		B						
4 Balance Bean	3 oz/a		A	0.0 -	66.7 abc	70.0 ab	50.0 a	100.0 -	90.0 a
4 Outlook	12 oz/a		A						
4 Roundup Power Max	32 oz/a		B						
4 N-pak ams	1.5 qt/a		B						
5 Balance Bean	3 oz/a		A	0.0 -	71.7 abc	53.3 bc	50.0 a	100.0 -	93.3 a
5 Zidua WG	1.5 oz/a		A						
5 Roundup Power Max	32 oz/a		B						
5 N-pak ams	1.5 qt/a		B						
6 Balance Bean	3 oz/a		A	0.0 -	50.0 cd	66.7 ab	55.0 a	100.0 -	86.7 a
6 Sencor DF	6 oz/a		A						
6 Roundup Power Max	32 oz/a		B						
6 N-pak ams	1.5 qt/a		B						
7 Balance Bean	3 oz/a		A	0.0 -	36.7 d	16.7 e	30.0 a	100.0 -	91.7 a
7 Sonic	6 oz/a		A						
7 Roundup Power Max	32 oz/a		B						
7 N-pak ams	1.5 qt/a		B						
8 Balance Bean	3 oz/a		A	0.0 -	60.0 a-d	43.3 cd	55.0 a	100.0 -	96.7 a
8 Warrant Ultra	50 oz/a		A						
8 Roundup Power Max	32 oz/a		B						
8 N-pak ams	1.5 qt/a		B						
9 Balance Bean	3 oz/a		A	0.0 -	80.0 a	76.7 a	50.0 a	100.0 -	96.7 a
9 Boundary	2 pt/a		A						
9 Roundup Power Max	32 oz/a		B						
9 N-pak ams	1.5 qt/a		B						
10 Balance Bean	3 oz/a		A	0.0 -	60.0 a-d	40.0 cd	60.0 a	100.0 -	100.0 a
10 Valor XLT @ 4.0 oz			A						
10 Valor SX	2.35 oz/a		A						
10 Classic	1.65 oz/a		A						
10 Roundup Power Max	32 oz/a		B						
10 N-pak ams	1.5 qt/a		B						

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Pest Type	O Other	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code		SETFA	ECHCG	AMBTR	CHEAL	AMARE			
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>				
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>	Redroot pigweed				
Rating Date	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-13-2018			
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Days After First/Last Applic.	33 33	33 33	33 33	33 33	33 33	33 33			
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A			
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1	33 DP-1	33 DP-1			
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*	6*
11 Balance Bean	3 oz/a		A	0.0 -	56.7 bcd	33.3 cde	45.0 a	100.0 -	88.3 a
11 Canopy	3 oz/a		A						
11 Roundup Power Max	32 oz/a		B						
11 N-pak ams	1.5 qt/a		B						
12 Balance Bean	3 oz/a		A	0.0 -	60.0 a-d	46.7 cd	60.0 a	100.0 -	95.0 a
12 Authority MTZ	14 oz/a		A						
12 Roundup Power Max	32 oz/a		B						
12 N-pak ams	1.5 qt/a		B						
13 Balance Bean	3 oz/a		A	0.0 -	36.7 d	33.3 cde	70.0 a	100.0 -	90.0 a
13 Authority First	6.4 oz/a		A						
13 Roundup Power Max	32 oz/a		B						
13 N-pak ams	1.5 qt/a		B						
14 Balance Bean	3 oz/a		A	0.0 -	75.0 ab	68.3 ab	70.0 a	100.0 -	100.0 a
14 Authority Supreme	9.8 oz/a		A						
14 Roundup Power Max	32 oz/a		B						
14 N-pak ams	1.5 qt/a		B						
LSD P=.05				.	14.28	15.15	23.86	.	10.67
Standard Deviation				0.00	8.51	9.03	11.04	0.00	6.36
CV				0.0	15.81	20.66	23.08	0.0	7.5
Levene's F				0.00	0.729	0.742		0.00	0.625
Levene's Prob(F)				.	0.721	0.709		.	0.813
Skewness				.	-0.9701*	-0.0154	-0.8359	-3.4528*	-2.6274*
Kurtosis				.	1.2944	-0.3201	1.0406	10.4158*	6.4313*
Replicate F				0.000	1.390	8.996	0.117	0.000	8.230
Replicate Prob(F)				1.0000	0.2671	0.0011	0.7377	1.0000	0.0017
Treatment F				0.000	16.797	17.631	5.342	0.000	49.622
Treatment Prob(F)				1.0000	0.0001	0.0001	0.0024	1.0000	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	O Other	W Weed			
Pest Code	IPOHE	HIBTR	POLPY	SIDSP		SETFA			
Pest Scientific Name	Ipomoea hederata>	Hibiscus trion>	Persicaria pen>	Sida spinosa		Setaria faberi			
Pest Name	ivy-leaf morni>	Venice mallow	annual smartwe>	Prickly sida		Giant foxtail			
Rating Date	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-26-2018	Jun-26-2018			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Days After First/Last Applic.	33 33	33 33	33 33	33 33	46 12	46 12			
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A					
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1	46 DP-1	46 DP-1			
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	40 DE-1	40 DE-1			
Trt Treatment	Other	Other	Appl						
No. Name	Rate	Rate	Unit Code	7*	8*	9*	10*	11*	12*
1 UTC				0.0 b	0.0 b	0.0 c	0.0 b	0.0 -	100.0 -
2 Balance Bean	3 oz/a		A	70.0 a	100.0 a	96.7 a	100.0 a	0.0 -	100.0 -
2 Roundup Power Max	32 oz/a		B						
2 N-pak ams	1.5 qt/a		B						
3 Balance Bean	3 oz/a		A	70.0 a	100.0 a	96.7 a	100.0 a	0.0 -	100.0 -
3 Valor SX	2 oz/a		A						
3 Roundup Power Max	32 oz/a		B						
3 N-pak ams	1.5 qt/a		B						
4 Balance Bean	3 oz/a		A	61.7 a	96.7 a	100.0 a	98.3 a	0.0 -	100.0 -
4 Outlook	12 oz/a		A						
4 Roundup Power Max	32 oz/a		B						
4 N-pak ams	1.5 qt/a		B						
5 Balance Bean	3 oz/a		A	56.7 a	100.0 a	100.0 a	100.0 a	0.0 -	100.0 -
5 Zidua WG	1.5 oz/a		A						
5 Roundup Power Max	32 oz/a		B						
5 N-pak ams	1.5 qt/a		B						
6 Balance Bean	3 oz/a		A	53.3 a	99.3 a	100.0 a	100.0 a	0.0 -	100.0 -
6 Sencor DF	6 oz/a		A						
6 Roundup Power Max	32 oz/a		B						
6 N-pak ams	1.5 qt/a		B						
7 Balance Bean	3 oz/a		A	90.0 a	100.0 a	96.7 a	98.3 a	0.0 -	100.0 -
7 Sonic	6 oz/a		A						
7 Roundup Power Max	32 oz/a		B						
7 N-pak ams	1.5 qt/a		B						
8 Balance Bean	3 oz/a		A	65.0 a	96.7 a	96.7 a	98.3 a	0.0 -	100.0 -
8 Warrant Ultra	50 oz/a		A						
8 Roundup Power Max	32 oz/a		B						
8 N-pak ams	1.5 qt/a		B						
9 Balance Bean	3 oz/a		A	53.3 a	100.0 a	100.0 a	98.3 a	0.0 -	100.0 -
9 Boundary	2 pt/a		A						
9 Roundup Power Max	32 oz/a		B						
9 N-pak ams	1.5 qt/a		B						
10 Balance Bean	3 oz/a		A	85.0 a	100.0 a	100.0 a	100.0 a	0.0 -	100.0 -
10 Valor XLT @ 4.0 oz			A						
10 Valor SX	2.35 oz/a		A						
10 Classic	1.65 oz/a		A						
10 Roundup Power Max	32 oz/a		B						
10 N-pak ams	1.5 qt/a		B						

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Pest Name	ivy-leaf morri>	Venice mallow	annual smartwe>	Prickly sida		Giant foxtail			
Rating Date	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-26-2018	Jun-26-2018			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Days After First/Last Applic.	33 33	33 33	33 33	33 33	46 12	46 12			
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A					
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1	46 DP-1	46 DP-1			
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	40 DE-1	40 DE-1			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	7*	8*	9*	10*	11*	12*
11 Balance Bean	3 oz/a		A	56.7 a	100.0 a	96.7 a	98.3 a	0.0 -	100.0 -
11 Canopy	3 oz/a		A						
11 Roundup Power Max	32 oz/a		B						
11 N-pak ams	1.5 qt/a		B						
12 Balance Bean	3 oz/a		A	63.3 a	98.3 a	100.0 a	99.3 a	0.0 -	100.0 -
12 Authority MTZ	14 oz/a		A						
12 Roundup Power Max	32 oz/a		B						
12 N-pak ams	1.5 qt/a		B						
13 Balance Bean	3 oz/a		A	80.0 a	100.0 a	100.0 a	98.3 a	0.0 -	100.0 -
13 Authority First	6.4 oz/a		A						
13 Roundup Power Max	32 oz/a		B						
13 N-pak ams	1.5 qt/a		B						
14 Balance Bean	3 oz/a		A	71.7 a	100.0 a	75.0 b	96.7 a	0.0 -	100.0 -
14 Authority Supreme	9.8 oz/a		A						
14 Roundup Power Max	32 oz/a		B						
14 N-pak ams	1.5 qt/a		B						
LSD P=.05				23.74	2.30	12.64	3.49	.	.
Standard Deviation				14.14	1.37	7.53	2.08	0.00	0.00
CV				22.59	1.48	8.38	2.26	0.0	0.0
Levene's F				0.416	0.796	2.188	0.489	0.00	0.00
Levene's Prob(F)				0.951	0.659	0.04*	0.913	.	.
Skewness				-0.7202	-3.4292*	-2.9614*	-3.4185*	.	.
Kurtosis				0.8869	10.3083*	7.7353*	10.2605*	.	.
Replicate F				8.037	1.068	0.955	0.793	0.000	0.000
Replicate Prob(F)				0.0019	0.3581	0.3980	0.4633	1.0000	1.0000
Treatment F				6.824	1131.387	37.615	485.433	0.000	0.000
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	1.0000	1.0000

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 Protocol ID: 18 BALANCEDEMO
 Project ID: HP18USAXP4/SULFSOY.03

Location: Trial Year: 2018
 Investigator: Dr. Mark M. Loux
 Study Director: Bryan Reeb
 Sponsor Contact: Dave Lamore, Bayer/Joe Reed FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	ECHCG	AMBTR	CHEAL	AMARE	IPOHE			
Pest Scientific Name	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>	Ipomoea heder>			
Pest Name	Common barnyar>	Giant ragweed	common lambsqu>	Redroot pigweed	ivy-leaf morni>			
Rating Date	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	46 12	46 12	46 12	46 12	46 12			
Trt-Eval Interval								
Plant-Eval Interval	46 DP-1	46 DP-1	46 DP-1	46 DP-1	46 DP-1			
Days After Emergence	40 DE-1	40 DE-1	40 DE-1	40 DE-1	40 DE-1			
Trt Treatment	Other	Other	Appl					
No. Name	Rate	Rate	Unit Code	13*	14*	15*	16*	17*
1 UTC				90.6 b	100.0 -	100.0 -	100.0 -	100.0
2 Balance Bean	3 oz/a		A	99.8 a	92.2 -	100.0 -	100.0 -	96.7 -
2 Roundup Power Max	32 oz/a		B					
2 N-pak ams	1.5 qt/a		B					
3 Balance Bean	3 oz/a		A	99.1 a	95.7 -	100.0 -	100.0 -	81.7 -
3 Valor SX	2 oz/a		A					
3 Roundup Power Max	32 oz/a		B					
3 N-pak ams	1.5 qt/a		B					
4 Balance Bean	3 oz/a		A	99.8 a	96.7 -	100.0 -	100.0 -	90.0 -
4 Outlook	12 oz/a		A					
4 Roundup Power Max	32 oz/a		B					
4 N-pak ams	1.5 qt/a		B					
5 Balance Bean	3 oz/a		A	99.8 a	98.3 -	100.0 -	100.0 -	95.0 -
5 Zidua WG	1.5 oz/a		A					
5 Roundup Power Max	32 oz/a		B					
5 N-pak ams	1.5 qt/a		B					
6 Balance Bean	3 oz/a		A	100.0 a	96.7 -	100.0 -	100.0 -	90.0 -
6 Sencor DF	6 oz/a		A					
6 Roundup Power Max	32 oz/a		B					
6 N-pak ams	1.5 qt/a		B					
7 Balance Bean	3 oz/a		A	99.8 a	98.9 -	100.0 -	100.0 -	100.0 -
7 Sonic	6 oz/a		A					
7 Roundup Power Max	32 oz/a		B					
7 N-pak ams	1.5 qt/a		B					
8 Balance Bean	3 oz/a		A	100.0 a	99.4 -	100.0 -	100.0 -	91.7 -
8 Warrant Ultra	50 oz/a		A					
8 Roundup Power Max	32 oz/a		B					
8 N-pak ams	1.5 qt/a		B					
9 Balance Bean	3 oz/a		A	100.0 a	95.5 -	100.0 -	100.0 -	91.7 -
9 Boundary	2 pt/a		A					
9 Roundup Power Max	32 oz/a		B					
9 N-pak ams	1.5 qt/a		B					
10 Balance Bean	3 oz/a		A	99.1 a	98.9 -	100.0 -	100.0 -	95.0 -
10 Valor XLT @ 4.0 oz			A					
10 Valor SX	2.35 oz/a		A					
10 Classic	1.65 oz/a		A					
10 Roundup Power Max	32 oz/a		B					
10 N-pak ams	1.5 qt/a		B					

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Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 2 in column 4; 2 in 19

Could not calculate LSD (% mean diff) for columns 1,5,11,12,15,16,18,19,21,22,23,24,25,26,27,28,29,30 because error mean square = 0.

The Ohio State University

FG72 IFT weed control systems

Trial ID: 18 BALANCEDEMO

Protocol ID: 18 BALANCEDEMO

Project ID: HP18USAXP4/SULFSOY.03

Location:

Trial Year: 2018

Investigator: Dr. Mark M. Loux

Study Director: Bryan Reeb

Sponsor Contact: Dave Lamore, Bayer/Joe Reed FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	ECHCG	AMBTR	CHEAL	AMARE	IPHOE			
Pest Scientific Name	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>	Ipomoea heder>			
Pest Name	Common barnyar>	Giant ragweed	common lambsqu>	Redroot pigweed	ivy-leaf morni>			
Rating Date	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	46 12	46 12	46 12	46 12	46 12			
Trt-Eval Interval								
Plant-Eval Interval	46 DP-1	46 DP-1	46 DP-1	46 DP-1	46 DP-1			
Days After Emergence	40 DE-1	40 DE-1	40 DE-1	40 DE-1	40 DE-1			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	13*	14*	15*	16*	17*
11 Balance Bean	3 oz/a		A	98.0 a	96.7 -	100.0 -	100.0 -	91.7 -
11 Canopy	3 oz/a		A					
11 Roundup Power Max	32 oz/a		B					
11 N-pak ams	1.5 qt/a		B					
12 Balance Bean	3 oz/a		A	100.0 a	100.0 -	100.0 -	100.0 -	86.7 -
12 Authority MTZ	14 oz/a		A					
12 Roundup Power Max	32 oz/a		B					
12 N-pak ams	1.5 qt/a		B					
13 Balance Bean	3 oz/a		A	99.8 a	100.0 -	100.0 -	100.0 -	100.0 -
13 Authority First	6.4 oz/a		A					
13 Roundup Power Max	32 oz/a		B					
13 N-pak ams	1.5 qt/a		B					
14 Balance Bean	3 oz/a		A	100.0 a	99.4 -	100.0 -	100.0 -	96.7 -
14 Authority Supreme	9.8 oz/a		A					
14 Roundup Power Max	32 oz/a		B					
14 N-pak ams	1.5 qt/a		B					
LSD P=.05				1.21 - 5.42	4.97 - 7.46	.	.	11.43
Standard Deviation				3.77t	7.68t	0.00	0.00	6.78
CV				4.36t	9.27t	0.0	0.0	7.31
Levene's F				0.495	0.381	0.00	0.00	0.511
Levene's Prob(F)				0.909	0.965	.	.	0.889
Skewness				-1.9007*	-0.5478	.	.	-0.6716
Kurtosis				4.0526*	-1.4568*	.	.	-0.6562
Replicate F				2.886	4.923	0.000	0.000	0.683
Replicate Prob(F)				0.0738	0.0154	1.0000	1.0000	0.5147
Treatment F				4.877	1.314	0.000	0.000	1.763
Treatment Prob(F)				0.0003	0.2666	1.0000	1.0000	0.1146

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The Ohio State University

FG72 IFT weed control systems

Trial ID: 18 BALANCEDEMO

Protocol ID: 18 BALANCEDEMO

Project ID: HP18USAXP4/SULFSOY.03

Location:

Trial Year: 2018

Investigator: Dr. Mark M. Loux

Study Director: Bryan Reeb

Sponsor Contact: Dave Lamore, Bayer/Joe Reed FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	HIBTR	POLPY	SIDSP	SETFA	ECHCG	AMBTR			
Pest Scientific Name	Hibiscus trion>	Persicaria pen>	Sida spinosa	Setaria faberi	Echinochloa cr>	Ambrosia trifi>			
Pest Name	Venice mallow	annual smartwe>	Prickly sida	Giant foxtail	Common barnyar>	Giant ragweed			
Rating Date	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Days After First/Last Applic.	46 12	46 12	46 12	59 25	59 25	59 25			
Trt-Eval Interval									
Plant-Eval Interval	46 DP-1	46 DP-1	46 DP-1	59 DP-1	59 DP-1	59 DP-1			
Days After Emergence	40 DE-1	40 DE-1	40 DE-1	53 DE-1	53 DE-1	53 DE-1			
Trt Treatment	Other	Other	Appl						
No. Name	Rate	Rate	Unit Code	18*	19*	20*	21*	22*	23*
1 UTC				100.0 -	100.0 -	100.0 -	100.0 -	96.7	100.0 -
2 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
2 Roundup Power Max	32 oz/a		B						
2 N-pak ams	1.5 qt/a		B						
3 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
3 Valor SX	2 oz/a		A						
3 Roundup Power Max	32 oz/a		B						
3 N-pak ams	1.5 qt/a		B						
4 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
4 Outlook	12 oz/a		A						
4 Roundup Power Max	32 oz/a		B						
4 N-pak ams	1.5 qt/a		B						
5 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
5 Zidua WG	1.5 oz/a		A						
5 Roundup Power Max	32 oz/a		B						
5 N-pak ams	1.5 qt/a		B						
6 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
6 Sencor DF	6 oz/a		A						
6 Roundup Power Max	32 oz/a		B						
6 N-pak ams	1.5 qt/a		B						
7 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
7 Sonic	6 oz/a		A						
7 Roundup Power Max	32 oz/a		B						
7 N-pak ams	1.5 qt/a		B						
8 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
8 Warrant Ultra	50 oz/a		A						
8 Roundup Power Max	32 oz/a		B						
8 N-pak ams	1.5 qt/a		B						
9 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
9 Boundary	2 pt/a		A						
9 Roundup Power Max	32 oz/a		B						
9 N-pak ams	1.5 qt/a		B						
10 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
10 Valor XLT @ 4.0 oz			A						
10 Valor SX	2.35 oz/a		A						
10 Classic	1.65 oz/a		A						
10 Roundup Power Max	32 oz/a		B						
10 N-pak ams	1.5 qt/a		B						

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The Ohio State University

FG72 IFT weed control systems
 Trial ID: 18 BALANCEDEMO
 Protocol ID: 18 BALANCEDEMO
 Project ID: HP18USAXP4/SULFSOY.03

Location: Trial Year: 2018
 Investigator: Dr. Mark M. Loux
 Study Director: Bryan Reeb
 Sponsor Contact: Dave Lamore, Bayer/Joe Reed FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	HIBTR	POLPY	SIDSP	SETFA	ECHCG	AMBTR			
Pest Scientific Name	Hibiscus trion>	Persicaria pen>	Sida spinosa	Setaria faberi	Echinochloa cr>	Ambrosia trifi>			
Pest Name	Venice mallow	annual smartwe>	Prickly sida	Giant foxtail	Common barnyar>	Giant ragweed			
Rating Date	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Days After First/Last Applic.	46 12	46 12	46 12	59 25	59 25	59 25			
Trt-Eval Interval									
Plant-Eval Interval	46 DP-1	46 DP-1	46 DP-1	59 DP-1	59 DP-1	59 DP-1			
Days After Emergence	40 DE-1	40 DE-1	40 DE-1	53 DE-1	53 DE-1	53 DE-1			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	18*	19*	20*	21*	22*	23*
11 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
11 Canopy	3 oz/a		A						
11 Roundup Power Max	32 oz/a		B						
11 N-pak ams	1.5 qt/a		B						
12 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
12 Authority MTZ	14 oz/a		A						
12 Roundup Power Max	32 oz/a		B						
12 N-pak ams	1.5 qt/a		B						
13 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
13 Authority First	6.4 oz/a		A						
13 Roundup Power Max	32 oz/a		B						
13 N-pak ams	1.5 qt/a		B						
14 Balance Bean	3 oz/a		A	100.0 -	100.0 -	400.0 -	100.0 -	100.0 -	100.0 -
14 Authority Supreme	9.8 oz/a		A						
14 Roundup Power Max	32 oz/a		B						
14 N-pak ams	1.5 qt/a		B						
LSD P=.05				.	.	233.08	.	.	.
Standard Deviation				0.00	0.00	138.87	0.00	0.00	0.00
CV				0.0	0.0	114.37	0.0	0.0	0.0
Levene's F				0.00		1.00	0.00	0.00	0.00
Levene's Prob(F)				.		0.477	.	.	.
Skewness				.	.	6.4807*	.	.	.
Kurtosis				.	.	42.0*	.	.	.
Replicate F				0.000	0.000	1.000	0.000	0.000	0.000
Replicate Prob(F)				1.0000	1.0000	0.3816	1.0000	1.0000	1.0000
Treatment F				0.000	0.000	1.000	0.000	0.000	0.000
Treatment Prob(F)				1.0000	1.0000	0.4786	1.0000	1.0000	1.0000

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The Ohio State University

FG72 IFT weed control systems
 Trial ID: 18 BALANCEDEMO
 Protocol ID: 18 BALANCEDEMO
 Project ID: HP18USAXP4/SULFSOY.03

Location: Trial Year: 2018
 Investigator: Dr. Mark M. Loux
 Study Director: Bryan Reeb
 Sponsor Contact: Dave Lamore, Bayer/Joe Reed FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	CHEAL	AMARE	IPOHE	HIBTR	POLPY			
Pest Scientific Name	Chenopodium al-	Amaranthus ret-	Ipomoea heder-	Hibiscus trion-	Persicaria pen-			
Pest Name	common lambsqu>	Redroot pigweed	ivy-leaf morni>	Venice mallow	annual smartwe>			
Rating Date	Jul-9-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	59 25	59 25	59 25	59 25	59 25			
Trt-Eval Interval								
Plant-Eval Interval	59 DP-1	59 DP-1	59 DP-1	59 DP-1	59 DP-1			
Days After Emergence	53 DE-1	53 DE-1	53 DE-1	53 DE-1	53 DE-1			
Trt Treatment	Other	Other	Appl					
No. Name	Rate	Rate	Unit Code	24*	25*	26*	27*	28*
1 UTC				100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
2 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
2 Roundup Power Max	32 oz/a		B					
2 N-pak ams	1.5 qt/a		B					
3 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
3 Valor SX	2 oz/a		A					
3 Roundup Power Max	32 oz/a		B					
3 N-pak ams	1.5 qt/a		B					
4 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
4 Outlook	12 oz/a		A					
4 Roundup Power Max	32 oz/a		B					
4 N-pak ams	1.5 qt/a		B					
5 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
5 Zidua WG	1.5 oz/a		A					
5 Roundup Power Max	32 oz/a		B					
5 N-pak ams	1.5 qt/a		B					
6 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
6 Sencor DF	6 oz/a		A					
6 Roundup Power Max	32 oz/a		B					
6 N-pak ams	1.5 qt/a		B					
7 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
7 Sonic	6 oz/a		A					
7 Roundup Power Max	32 oz/a		B					
7 N-pak ams	1.5 qt/a		B					
8 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
8 Warrant Ultra	50 oz/a		A					
8 Roundup Power Max	32 oz/a		B					
8 N-pak ams	1.5 qt/a		B					
9 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
9 Boundary	2 pt/a		A					
9 Roundup Power Max	32 oz/a		B					
9 N-pak ams	1.5 qt/a		B					
10 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
10 Valor XLT @ 4.0 oz			A					
10 Valor SX	2.35 oz/a		A					
10 Classic	1.65 oz/a		A					
10 Roundup Power Max	32 oz/a		B					
10 N-pak ams	1.5 qt/a		B					

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The Ohio State University

FG72 IFT weed control systems
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 Protocol ID: 18 BALANCEDEMO
 Project ID: HP18USAXP4/SULFSOY.03

Location: Trial Year: 2018
 Investigator: Dr. Mark M. Loux
 Study Director: Bryan Reeb
 Sponsor Contact: Dave Lamore, Bayer/ Joe Reed FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	CHEAL	AMARE	IPHOE	HIBTR	POLPY			
Pest Scientific Name	Chenopodium al-	Amaranthus ret>	Ipomoea heder>	Hibiscus trion>	Persicaria pen>			
Pest Name	common lambsqu>	Redroot pigweed	ivy-leaf morni>	Venice mallow	annual smartwe>			
Rating Date	Jul-9-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	59 25	59 25	59 25	59 25	59 25			
Trt-Eval Interval								
Plant-Eval Interval	59 DP-1	59 DP-1	59 DP-1	59 DP-1	59 DP-1			
Days After Emergence	53 DE-1	53 DE-1	53 DE-1	53 DE-1	53 DE-1			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	24*	25*	26*	27*	28*
11 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
11 Canopy	3 oz/a		A					
11 Roundup Power Max	32 oz/a		B					
11 N-pak ams	1.5 qt/a		B					
12 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
12 Authority MTZ	14 oz/a		A					
12 Roundup Power Max	32 oz/a		B					
12 N-pak ams	1.5 qt/a		B					
13 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
13 Authority First	6.4 oz/a		A					
13 Roundup Power Max	32 oz/a		B					
13 N-pak ams	1.5 qt/a		B					
14 Balance Bean	3 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	100.0 -
14 Authority Supreme	9.8 oz/a		A					
14 Roundup Power Max	32 oz/a		B					
14 N-pak ams	1.5 qt/a		B					
LSD P=.05				.	.	.	.	.
Standard Deviation				0.00	0.00	0.00	0.00	0.00
CV				0.0	0.0	0.0	0.0	0.0
Levene's F				0.00	0.00	0.00	0.00	0.00
Levene's Prob(F)				.	.	.	.	.
Skewness				.	.	.	.	.
Kurtosis				.	.	.	.	.
Replicate F				0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F				0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000

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The Ohio State University

FG72 IFT weed control systems

Trial ID: 18 BALANCEDEMO

Protocol ID: 18 BALANCEDEMO

Project ID: HP18USAXP4/SULFSOY.03

Location:

Trial Year: 2018

Investigator: Dr. Mark M. Loux

Study Director: Bryan Reeb

Sponsor Contact: Dave Lamore, Bayer/Joe Reed FMC

Pest Type	W Weed
Pest Code	SIDSP
Pest Scientific Name	Sida spinosa
Pest Name	Prickly sida
Rating Date	Jul-9-2018
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1 1
Days After First/Last Applic.	59 25
Trt-Eval Interval	
Plant-Eval Interval	59 DP-1
Days After Emergence	53 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	29*	30
1	UTC				100.0	-
2	Balance Bean	3 oz/a		A	100.0	-
2	Roundup Power Max	32 oz/a		B		
2	N-pak ams	1.5 qt/a		B		
3	Balance Bean	3 oz/a		A	100.0	-
3	Valor SX	2 oz/a		A		
3	Roundup Power Max	32 oz/a		B		
3	N-pak ams	1.5 qt/a		B		
4	Balance Bean	3 oz/a		A	100.0	-
4	Outlook	12 oz/a		A		
4	Roundup Power Max	32 oz/a		B		
4	N-pak ams	1.5 qt/a		B		
5	Balance Bean	3 oz/a		A	100.0	-
5	Zidua WG	1.5 oz/a		A		
5	Roundup Power Max	32 oz/a		B		
5	N-pak ams	1.5 qt/a		B		
6	Balance Bean	3 oz/a		A	100.0	-
6	Sencor DF	6 oz/a		A		
6	Roundup Power Max	32 oz/a		B		
6	N-pak ams	1.5 qt/a		B		
7	Balance Bean	3 oz/a		A	100.0	-
7	Sonic	6 oz/a		A		
7	Roundup Power Max	32 oz/a		B		
7	N-pak ams	1.5 qt/a		B		
8	Balance Bean	3 oz/a		A	100.0	-
8	Warrant Ultra	50 oz/a		A		
8	Roundup Power Max	32 oz/a		B		
8	N-pak ams	1.5 qt/a		B		
9	Balance Bean	3 oz/a		A	100.0	-
9	Boundary	2 pt/a		A		
9	Roundup Power Max	32 oz/a		B		
9	N-pak ams	1.5 qt/a		B		
10	Balance Bean	3 oz/a		A	100.0	-
10	Valor XLT @ 4.0 oz			A		
10	Valor SX	2.35 oz/a		A		
10	Classic	1.65 oz/a		A		
10	Roundup Power Max	32 oz/a		B		
10	N-pak ams	1.5 qt/a		B		

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Scientific Name	Sida spinosa
Pest Name	Prickly sida
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Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1 1
Days After First/Last Applic.	59 25
Trt-Eval Interval	
Plant-Eval Interval	59 DP-1
Days After Emergence	53 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	29*	30
11	Balance Bean	3 oz/a		A	100.0	-
11	Canopy	3 oz/a		A		
11	Roundup Power Max	32 oz/a		B		
11	N-pak ams	1.5 qt/a		B		
12	Balance Bean	3 oz/a		A	100.0	-
12	Authority MTZ	14 oz/a		A		
12	Roundup Power Max	32 oz/a		B		
12	N-pak ams	1.5 qt/a		B		
13	Balance Bean	3 oz/a		A	100.0	-
13	Authority First	6.4 oz/a		A		
13	Roundup Power Max	32 oz/a		B		
13	N-pak ams	1.5 qt/a		B		
14	Balance Bean	3 oz/a		A	100.0	-
14	Authority Supreme	9.8 oz/a		A		
14	Roundup Power Max	32 oz/a		B		
14	N-pak ams	1.5 qt/a		B		

LSD P=.05	. .
Standard Deviation	0.00 .
CV	0.0 .
Levene's F	0.00 .
Levene's Prob(F)	. .
Skewness	. .
Kurtosis	. .
Replicate F	0.000
Replicate Prob(F)	1.0000
Treatment F	0.000
Treatment Prob(F)	1.0000

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Trial Year: 2018

Pest Type

O, Other, G-BYRO7, G-OthStg = Other animal or nematode

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

Pest Code

SETFA, Setaria faberi, Giant foxtail = US

ECHCG, Echinochloa crus-galli, Common barnyard grass = US

AMBTR, Ambrosia trifida, Giant ragweed = US

CHEAL, Chenopodium album, common lambsquarters = US

AMARE, Amaranthus retroflexus, Redroot pigweed = US

IPOHE, Ipomoea hederacea, ivy-leaf morning glory = US

HIBTR, Hibiscus trionum, Venice mallow = US

POLPY, Persicaria pensylvanica, annual smartweed = US

SIDSP, Sida spinosa, Prickly sida = US

Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

33 DP-1 = 1 GLXMA May-11-2018

46 DP-1 = 1 GLXMA May-11-2018

59 DP-1 = 1 GLXMA May-11-2018