

Purdue University Weed Science

2013/AUTHORITY MTZ/SOYBEANS/BURNDOWN

Trial ID: 13S-SEP-CTS-06 Location: SEPAC Trial Year: 2013
 Protocol ID: 13S-SEP-CTS-06 Investigator: Dr. Bill Johnson
 Project ID: SULF.SOY.13.JPR.10 Study Director: JOE IKLEY
 Sponsor Contact: FMC - JOE REED

General Trial Information

Study Director: JOE IKLEY **Title:** RESEARCH ASSOCIATE
Investigator: DR. BILL JOHNSON **Title:** PROFESSOR

Discipline: H HERBICIDE
Trial Status: F one-year/final
Initiation Date: 5/30/2013 **Planned Completion Date:** 8/16/2013
Completion Date: 10/1/2013

Trial Location

City: BUTLERVILLE **Country:** USA UNITED STATES
State/Prov.: INDIANA
Postal Code: 47223

Contacts

Study Director: JOE IKLEY **Title:** RESEARCH ASSOCIATE
Organization: PURDUE UNIVERSITY
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Investigator: DR. BILL JOHNSON **Title:** PROFESSOR
Organization: PURDUE UNIVERSITY
Address: 915 WEST STATE STREET **Phone No.:** 765-494-4656
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Postal Code: 47907 **E-mail:** WGJ@PURDUE.EDU

Cooperator/Landowner

Cooperator: DON BIEHLE **Role:** SUPERINTENDENT
Organization: SOUTHEAST PURDUE AGRICULTURE CENTER
Address 1: 4425 EAST COUNTY ROAD 350 NORTH
City: BUTLERVILLE **Phone No.:** 812-458-6977
State/Prov: INDIANA **Fax No.:** 812-458-6979
Postal Code: 47223-0216 **Mobile No.:** 812-592-8426
Country: USA UNITED STATES **E-mail:** BIEHLED@PURDUE.EDU

Crop Description

Crop 1: GLXMA GLYCINE MAX
Variety: ASGROW 2933
Description: RR

Planting Rate, Unit: 140000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 30 IN
Spacing Within Row, Unit: 2 IN
Planting Density, Unit: 140000 S/A
Soil Temperature, Unit: 79 F
Soil Moisture: SLIWET SLIGHTLY WET, MOIST

Crop Description: SOYBEAN

Planting Date: 5/30/2013
Planting Method: DIRDRI DIRECT DRILLED
Planting Equipment: JD7000
Emergence Date: 6/5/2013
Harvest Date: 10/1/2013
Harvested Width, Unit: 10 FT
Harvested Length, Unit: 25 FT
Harvest Equipment: Gleaner F3
% Standard Moisture: 13.0
Moisture Meter: Harvest Master
Weighing Equipment: Harvest Master

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Pest Description

- Pest 1 Type:** W **Code:** BROSS BROMUS SP.
Common Name: BROMEGRASS
- Pest 2 Type:** W **Code:** AMBEL AMBROSIA ARTEMISIIFOLIA
Common Name: COMMON RAGWEED
- Pest 3 Type:** W **Code:** ERICA CONYZA CANADENSIS
Common Name: CANADA HORSEWEED
- Pest 4 Type:** W **Code:** PANDI PANICUM DICHOTOMIFLORUM
Common Name: FALL PANICUM
- Pest 5 Type:** W **Code:** XANST XANTHIUM STRUMARIUM
Common Name: HEART-LEAF COCKLEBUR
- Pest 6 Type:** W **Code:** HORPU HORDEUM PUSILLUM
Common Name: LITTLE BARLEY
- Pest 7 Type:** W **Code:** DIGSA DIGITARIA SANGUINALIS
Common Name: LARGE CRABGRASS
- Pest 8 Type:** W **Code:** IPOSS IPOMOEA SP.
Common Name: MORNING GLORY

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 **Tillage Type:** NOTILL NO-TILL
Replications: 4 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: SEPAC-U41 **Texture:** SIL SILT LOAM
% Sand: 20 **% OM:** 1.3 **Soil Name:** AVONBURG
% Silt: 65 **pH:** 6.5 **Fert. Level:** F FAIR
% Clay: 15 **CEC:** 5.7 **Soil Drainage:** P POOR

Application Description

	A	B
Application Date:	5/30/2013	7/5/2013
Appl. Start Time:	13:00	9:15
Appl. Stop Time:	2:30 PM	10:15 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PREPRE	ACCRST
Application Placement:	SOIL	BROADC
Applied By:	DEVKOTA	HENEGHAN
Air Temperature, Unit:	86.5 F	72 F
% Relative Humidity:	60	88
Wind Velocity, Unit:	5 MPH	2.3 MPH
Wind Direction:	SSE	N
Dew Presence (Y/N):	N NO	Y YES
Soil Temperature, Unit:	79 F	67 F
Soil Moisture:	SLIWET	WET
% Cloud Cover:	45	100
Next Moisture Occurred On:	5/31/2013	
Time to Next Moisture, Unit:	24 HR	

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Crop Stage At Each Application		
	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	BBCH	BBCH
Stage Majority, Percent:	00	16
Stage Minimum, Percent:		15
Stage Maximum, Percent:		16
Height, Unit:		11 IN
Height Minimum, Maximum:		10 12
Stage Scale Used:	BBCH	BBCH

Pest Stage At Each Application		
	A	B
Pest 1 Code, Type, Scale:	BROSS W	BROSS W
Stage Majority, Percent:	79	
Height, Unit:	35 IN	
Height Minimum, Maximum:	30 40	
Density, Unit:	25 YD2	
Pest 2 Code, Type, Scale:	AMBEL W	AMBEL W
Stage Majority, Percent:	34	
Stage Minimum, Percent:	33	
Stage Maximum, Percent:	35	
Height, Unit:	10 IN	
Height Minimum, Maximum:	7 12	
Density, Unit:	37 YD2	
Pest 3 Code, Type, Scale:	ERICA W	ERICA W
Stage Majority, Percent:	13	
Stage Minimum, Percent:	12	
Stage Maximum, Percent:	14	
Height, Unit:	1 IN	
Height Minimum, Maximum:	0.5 2	
Density, Unit:	75 YD2	
Pest 4 Code, Type, Scale:	PANDI W	PANDI W
Stage Majority, Percent:	14	14
Stage Minimum, Percent:	12	13
Stage Maximum, Percent:	14	15
Height, Unit:	1.5 IN	10 IN
Height Minimum, Maximum:	0.5 3	6.5 13
Density, Unit:	60 YD2	13 YD2
Pest 5 Code, Type, Scale:	XANST W	XANST W
Stage Majority, Percent:	34	
Stage Minimum, Percent:	32	
Stage Maximum, Percent:	35	
Height, Unit:	7 IN	
Height Minimum, Maximum:	5 8	
Density, Unit:	25 YD2	
Pest 6 Code, Type, Scale:	HORPU W	HORPU W
Pest 7 Code, Type, Scale:	DIGSA W	DIGSA W
Stage Majority, Percent:		23G

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Stage Minimum, Percent:		22G
Stage Maximum, Percent:		25G
Height, Unit:		3.5 IN
Height Minimum, Maximum:		2 5
Density, Unit:		20 YD2
Pest 8 Code, Type, Scale:	IPOSS W	IPOSS W
Stage Majority, Percent:		33G
Stage Minimum, Percent:		30
Stage Maximum, Percent:		35G
Height, Unit:		3 IN
Height Minimum, Maximum:		1 5
Density, Unit:		5 YD2

Application Equipment

	A	B
Appl. Equipment:	CO2 BACKPACK	CO2 BACKPACK
Equipment Type:	SPRBAC	SPRBAC
Operation Pressure, Unit:	17 PSI	17 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	XR11002	XR11002
Nozzle Spacing, Unit:	15 IN	15 IN
Nozzles/Row:	8	8
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	H2O	H2O
Water Hardness (ppm CaCO3):	150	150
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	1.8 LITERS	1.8 LITERS
Propellant:	CO2	CO2
Tank Mix (Y/N):	N NO	N NO

Date	By	Notes
7/5/2013		PLOT 403 SPRAYED BY MISTAKE NOZZLES 1 AND 2 CLOGGED FOR PLOTS 101 AND 201

Trial Comments

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Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
4.032	g	CLASSIC	25	WG	
180.081	ml	ROUNDUP POWERMAX	5.5	SL	
7.500	ml	SPARTAN	4	SC	
17.921	g	SENCOR	75	WG	

* 'Per area' calculations based on spray volume= 15 gal/ac, mix size= 1.8 liters (mix size basis).

* 'Per volume' calculations use spray volume= 15 gal/ac, mix size= 1.8 liters.

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Pest Type	W WEED	W WEED	W WEED	
Pest Code	HORPU	AMBEL	HORPU	
Pest Scientific Name	HORDEUM PUSILL>	AMBROSIA ARTEM>	HORDEUM PUSILL>	
Pest Name	LITTLE BARLEY	COMMON RAGWEED	LITTLE BARLEY	
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Part Rated	PLOT P	PLOT P	PLOT P	
Rating Date	6/6/2013	6/6/2013	6/13/2013	
Rating Type	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	
Days After First/Last Applic.	7 7	7 7	14 14	
Trt-Eval Interval	7 DA-A	7 DA-A	14 DA-A	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	1	2
1 UNTREATED		101	0	0
		403	0	0
		701	0	0
		903	0	0
		Mean =	0	0
2 AUTHORITY MTZ	70 g ai/a A	102	95	95
GRAMOXONE INTEON	170 g ai/a A	302	95	95
N-PAK AMS	4.9 % v/v A	603	95	100
ANTHEM	45.7 g ai/a B	801	95	95
CLASSIC	5.3 g ai/a B			
ROUNDUP POWERMAX	624 g ae/a B			
N-PAK AMS	4.9 % v/v B			
		Mean =	95	96
3 AUTHORITY MTZ	70 g ai/a A	103	95	90
GRAMOXONE INTEON	227 g ai/a A	303	95	100
N-PAK AMS	4.9 % v/v A	601	95	100
ANTHEM	45.7 g ai/a B	902	95	90
CLASSIC	5.3 g ai/a B			
ROUNDUP POWERMAX	624 g ae/a B			
N-PAK AMS	4.9 % v/v B			
		Mean =	95	95
4 SPARTAN	34 g ai/a A	201	95	90
SENCOR	106 g ai/a A	501	95	100
GRAMOXONE INTEON	170 g ai/a A	602	95	90
N-PAK AMS	4.9 % v/v A	802	95	90
ANTHEM	45.7 g ai/a B			
CLASSIC	5.3 g ai/a B			
ROUNDUP POWERMAX	624 g ae/a B			
N-PAK AMS	4.9 % v/v B			
		Mean =	95	93
5 SPARTAN	34 g ai/a A	202	95	100
SENCOR	106 g ai/a A	402	95	100
GRAMOXONE INTEON	227 g ai/a A	702	95	90
N-PAK AMS	4.9 % v/v A	803	95	100
ANTHEM	45.7 g ai/a B			
CLASSIC	5.3 g ai/a B			
ROUNDUP POWERMAX	624 g ae/a B			
N-PAK AMS	4.9 % v/v B			
		Mean =	95	98

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Pest Type		W WEED		W WEED		W WEED
Pest Code		AMBEL		PANDI		AMBEL
Pest Scientific Name		AMBROSIA ARTEM>		PANICUM DICHOT>		AMBROSIA ARTEM>
Pest Name		COMMON RAGWEED		FALL PANICUM		COMMON RAGWEED
Crop Code			GLXMA			
BBCH Scale			BSOY			
Crop Scientific Name			GLYCINE MAX			
Crop Name			SOYBEAN			
Part Rated		PLOT P	PLOT C	PLOT P		PLOT P
Rating Date		6/13/2013	6/13/2013	6/13/2013		6/27/2013
Rating Type		CONTRO	PHYGEN	CONTRO		CONTRO
Rating Unit		%	%	%		%
Sample Size, Unit		1 PLOT	1 PLOT	1 PLOT		1 PLOT
Days After First/Last Applic.		14 14	14 14	14 14		28 28
Trt-Eval Interval		14 DA-A	14 DA-A	14 DA-A		28 DA-A
ARM Action Codes		P	P	P		P
Number of Decimals		0	0	0		0
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	4	5	6	7
1 UNTREATED		101	0	0	0	0
		403	0	0	0	0
		701	0	0	0	0
		903	0	0	0	0
		Mean =	0	0	0	0
2 AUTHORITY MTZ	70 g ai/a	A 102	100	0	90	95
GRAMOXONE INTEON	170 g ai/a	A 302	100	0	100	100
N-PAK AMS	4.9 % v/v	A 603	100	0	100	100
ANTHEM	45.7 g ai/a	B 801	80	0	95	70
CLASSIC	5.3 g ai/a	B				
ROUNDUP POWERMAX	624 g ae/a	B				
N-PAK AMS	4.9 % v/v	B				
		Mean =	95	0	96	91
3 AUTHORITY MTZ	70 g ai/a	A 103	100	0	90	100
GRAMOXONE INTEON	227 g ai/a	A 303	100	0	90	100
N-PAK AMS	4.9 % v/v	A 601	95	0	95	90
ANTHEM	45.7 g ai/a	B 902	100	0	90	100
CLASSIC	5.3 g ai/a	B				
ROUNDUP POWERMAX	624 g ae/a	B				
N-PAK AMS	4.9 % v/v	B				
		Mean =	99	0	91	98
4 SPARTAN	34 g ai/a	A 201	100	0	90	80
SENCOR	106 g ai/a	A 501	95	0	95	100
GRAMOXONE INTEON	170 g ai/a	A 602	100	0	95	85
N-PAK AMS	4.9 % v/v	A 802	90	0	90	80
ANTHEM	45.7 g ai/a	B				
CLASSIC	5.3 g ai/a	B				
ROUNDUP POWERMAX	624 g ae/a	B				
N-PAK AMS	4.9 % v/v	B				
		Mean =	96	0	93	86
5 SPARTAN	34 g ai/a	A 202	100	0	100	95
SENCOR	106 g ai/a	A 402	100	0	90	100
GRAMOXONE INTEON	227 g ai/a	A 702	100	0	95	90
N-PAK AMS	4.9 % v/v	A 803	100	0	90	100
ANTHEM	45.7 g ai/a	B				
CLASSIC	5.3 g ai/a	B				
ROUNDUP POWERMAX	624 g ae/a	B				
N-PAK AMS	4.9 % v/v	B				
		Mean =	100	0	94	96

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Pest Type				W WEED	W WEED	W WEED	
Pest Code				PANDI	AMBEL	PANDI	
Pest Scientific Name				PANICUM DICHOT>	AMBROSIA ARTEM>	PANICUM DICHOT>	
Pest Name				FALL PANICUM	COMMON RAGWEED	FALL PANICUM	
Crop Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Part Rated				PLOT P	PLOT P	PLOT P	
Rating Date				7/12/2013	7/12/2013	7/26/2013	
Rating Type				CONTRO	CONTRO	CONTRO	
Rating Unit				%	%	%	
Sample Size, Unit				1 PLOT	1 PLOT	1 PLOT	
Days After First/Last Applic.				43 7	43 7	57 21	
Trt-Eval Interval				43 DA-A	43 DA-A	57 DA-A	
ARM Action Codes				P	P	P	
Number of Decimals				0	0	0	
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code Plot		8	9	10	
1 UNTREATED			101	0	0	0	0
			403	0	0	0	0
			701	0	0	0	0
			903	0	0	0	0
			Mean =	0	0	0	0
2 AUTHORITY MTZ	70 g ai/a	A	102	90	95	100	100
GRAMOXONE INTEON	170 g ai/a	A	302	100	100	100	100
N-PAK AMS	4.9 % v/v	A	603	100	100	100	100
ANTHEM	45.7 g ai/a	B	801	90	98	100	100
CLASSIC	5.3 g ai/a	B					
ROUNDUP POWERMAX	624 g ae/a	B					
N-PAK AMS	4.9 % v/v	B					
			Mean =	95	98	100	100
3 AUTHORITY MTZ	70 g ai/a	A	103	87	99	100	100
GRAMOXONE INTEON	227 g ai/a	A	303	95	99	100	100
N-PAK AMS	4.9 % v/v	A	601	95	100	100	100
ANTHEM	45.7 g ai/a	B	902	98	98	100	100
CLASSIC	5.3 g ai/a	B					
ROUNDUP POWERMAX	624 g ae/a	B					
N-PAK AMS	4.9 % v/v	B					
			Mean =	94	99	100	100
4 SPARTAN	34 g ai/a	A	201	85	85	100	100
SENCOR	106 g ai/a	A	501	94	100	100	100
GRAMOXONE INTEON	170 g ai/a	A	602	98	93	100	100
N-PAK AMS	4.9 % v/v	A	802	90	95	100	100
ANTHEM	45.7 g ai/a	B					
CLASSIC	5.3 g ai/a	B					
ROUNDUP POWERMAX	624 g ae/a	B					
N-PAK AMS	4.9 % v/v	B					
			Mean =	92	93	100	100
5 SPARTAN	34 g ai/a	A	202	92	100	100	100
SENCOR	106 g ai/a	A	402	90	99	100	100
GRAMOXONE INTEON	227 g ai/a	A	702	98	100	100	100
N-PAK AMS	4.9 % v/v	A	803	93	100	100	100
ANTHEM	45.7 g ai/a	B					
CLASSIC	5.3 g ai/a	B					
ROUNDUP POWERMAX	624 g ae/a	B					
N-PAK AMS	4.9 % v/v	B					
			Mean =	93	100	100	100

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	W WEED PANDI	W WEED AMBEL	W WEED PANDI
Pest Type	PANICUM DICHOT>	AMBROSIA ARTEM>	PANICUM DICHOT>
Pest Code	FALL PANICUM	COMMON RAGWEED	FALL PANICUM
Pest Scientific Name			
Pest Name			
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Part Rated	PLOT P	PLOT P	PLOT P
Rating Date	7/12/2013	7/12/2013	7/26/2013
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT
Days After First/Last Applic.	43 7	43 7	57 21
Trt-Eval Interval	43 DA-A	43 DA-A	57 DA-A
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment			
Rate	Appl		
No. Name	Rate Unit Code Plot	8	9
6 SPARTAN	22.7 g ai/a A 203	90	98
SENCOR	106 g ai/a A 502	100	100
GRAMOXONE INTEON	170 g ai/a A 703	95	100
N-PAK AMS	4.9 % v/v A 901	95	100
ANTHEM	45.7 g ai/a B		
CLASSIC	5.3 g ai/a B		
ROUNDUP POWERMAX	624 g ae/a B		
N-PAK AMS	4.9 % v/v B		
	Mean =	95	100
7 SPARTAN	22.7 g ai/a A 301	92	100
SENCOR	106 g ai/a A 401	85	95
GRAMOXONE INTEON	227 g ai/a A 503	94	100
N-PAK AMS	4.9 % v/v A 1001	95	95
ANTHEM	45.7 g ai/a B		
CLASSIC	5.3 g ai/a B		
ROUNDUP POWERMAX	624 g ai/a B		
N-PAK AMS	4.9 % v/v B		
	Mean =	92	98
			100

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				W WEED AMBEL AMBROSIA ARTEM> COMMON RAGWEED	GLXMA BSOY Glycine max Soybean YIELD C	GLXMA BSOY Glycine max Soybean YIELD C	GLXMA BSOY Glycine max Soybean YIELD C
Pest Type	Pest Code	Pest Scientific Name	Pest Name				
Crop Code	BBCH Scale	Crop Scientific Name	Crop Name				
Part Rated	Rating Date	Rating Type	Rating Unit				
Sample Size, Unit	Days After First/Last Applic.	Trt-Eval Interval	ARM Action Codes				
Number of Decimals							
Trt Treatment	Rate	Appl		11	12	13	14
No. Name	Rate Unit	Code	Plot				
1 UNTREATED			101	0	3.5013734	9.7	652.4
			403	0	4.9230625*	13.6*	917.3*
			701	0	4.2540284	11.8	792.6
			903	0	4.8991705	13.6	912.8
			Mean =	0	4.3944087	12.2	818.8
2 AUTHORITY MTZ	70 g ai/a	A	102	100	12.1032192	33.5	2255.1
GRAMOXONE INTEON	170 g ai/a	A	302	100	14.5224775	40.2	2705.8
N-PAK AMS	4.9 % v/v	A	603	100	17.6406498	48.9	3286.8
ANTHEM	45.7 g ai/a	B	801	100	15.8127606	43.8	2946.2
CLASSIC	5.3 g ai/a	B					
ROUNDUP POWERMAX	624 g ae/a	B					
N-PAK AMS	4.9 % v/v	B					
			Mean =	100	15.0197768	41.6	2798.5
3 AUTHORITY MTZ	70 g ai/a	A	103	100	14.2536784	39.5	2655.7
GRAMOXONE INTEON	227 g ai/a	A	303	100	15.9740466	44.3	2976.3
N-PAK AMS	4.9 % v/v	A	601	100	15.9740466	44.3	2976.3
ANTHEM	45.7 g ai/a	B	902	100	15.2213835	42.2	2836.0
CLASSIC	5.3 g ai/a	B					
ROUNDUP POWERMAX	624 g ae/a	B					
N-PAK AMS	4.9 % v/v	B					
			Mean =	100	15.3557888	42.5	2861.1
4 SPARTAN	34 g ai/a	A	201	100	12.5870683	34.9	2345.2
SENCOR	106 g ai/a	A	501	100	16.9417517	46.9	3156.6
GRAMOXONE INTEON	170 g ai/a	A	602	100	16.6191877	46.0	3096.5
N-PAK AMS	4.9 % v/v	A	802	100	16.4041386	45.4	3056.4
ANTHEM	45.7 g ai/a	B					
CLASSIC	5.3 g ai/a	B					
ROUNDUP POWERMAX	624 g ae/a	B					
N-PAK AMS	4.9 % v/v	B					
			Mean =	100	15.6380366	43.3	2913.7
5 SPARTAN	34 g ai/a	A	202	100	13.6622934	37.9	2545.5
SENCOR	106 g ai/a	A	402	100	16.7267087	46.3	3116.5
GRAMOXONE INTEON	227 g ai/a	A	702	100	16.1890966	44.9	3016.3
N-PAK AMS	4.9 % v/v	A	803	100	20.1136800	55.7	3747.6
ANTHEM	45.7 g ai/a	B					
CLASSIC	5.3 g ai/a	B					
ROUNDUP POWERMAX	624 g ae/a	B					
N-PAK AMS	4.9 % v/v	B					
			Mean =	100	16.6729447	46.2	3106.5

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Pest Type	W WEED			
Pest Code	AMBEL			
Pest Scientific Name	AMBROSIA ARTEM>			
Pest Name	COMMON RAGWEED			
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
Part Rated	PLOT P	YIELD C	YIELD C	YIELD C
Rating Date	7/26/2013	10/1/2013	10/1/2013	10/1/2013
Rating Type	CONTRO	YIELD	YIELD	YIELD
Rating Unit	%	lb/plot	bu/ac	kg/ha
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Days After First/Last Applic.	57 21	124 88	124 88	124 88
Trt-Eval Interval	57 DA-A			
ARM Action Codes	P		TY1	TY2
Number of Decimals	0		1	1
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	11	12
6 SPARTAN	22.7 g ai/a	A 203	100	16.6729527
SENCOR	106 g ai/a	A 502	100	17.2643217
GRAMOXONE INTEON	170 g ai/a	A 703	100	17.5868928
N-PAK AMS	4.9 % v/v	A 901	100	13.1784373
ANTHEM	45.7 g ai/a	B		
CLASSIC	5.3 g ai/a	B		
ROUNDUP POWERMAX	624 g ae/a	B		
N-PAK AMS	4.9 % v/v	B		
		Mean =	100	16.1756511
7 SPARTAN	22.7 g ai/a	A 301	100	15.2213835
SENCOR	106 g ai/a	A 401	100	15.8665176
GRAMOXONE INTEON	227 g ai/a	A 503	100	16.7267087
N-PAK AMS	4.9 % v/v	A 1001	100	13.2322023
ANTHEM	45.7 g ai/a	B		
CLASSIC	5.3 g ai/a	B		
ROUNDUP POWERMAX	624 g ai/a	B		
N-PAK AMS	4.9 % v/v	B		
		Mean =	100	15.2617030
				44.8
				3013.8
				42.2
				2836.0
				44.0
				2956.2
				46.3
				3116.5
				36.7
				2465.4
				42.3
				2843.5

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2013/AUTHORITY MTZ/SOYBEANS/BURNDOWN

Trial ID: 13S-SEP-CTS-06 Location: SEPAC Trial Year: 2013
 Protocol ID: 13S-SEP-CTS-06 Investigator: Dr. Bill Johnson
 Project ID: SULF.SOY.13.JPR.10 Study Director: JOE IKLEY
 Sponsor Contact: FMC - JOE REED

Pest Type

W, WEED, G-BYRW7, G-WEDSTG = Weed or volunteer crop

Pest Code

HORPU, HORDEUM PUSILLUM, = US

AMBEL, AMBROSIA ARTEMISIIFOLIA, = US

PANDI, PANICUM DICHOTOMIFLORUM, = US

Crop Code

GLXMA, BSOY, GLYCINE MAX, = US

Part Rated

PLOT = plot

YIELD = yield

P = Pest is Part Rated

C = Crop is Part Rated

Rating Type

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

YIELD = yield

Rating Unit

% = percent

lb/plot = pounds per plot

bu/ac = bushels per acre

kg/ha = kilograms per hectare

PLOT = total plot

ARM Action Codes

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

TY1 = 2.770483*[12]

TY2 = 186.3191*[12]

Purdue University Weed Science

2013/AUTHORITY MTZ/SOYBEANS/BURNDOWN

Trial ID: 13S-SEP-CTS-06 Location: SEPAC Trial Year: 2013
 Protocol ID: 13S-SEP-CTS-06 Investigator: Dr. Bill Johnson
 Project ID: SULF.SOY.13.JPR.10 Study Director: JOE IKLEY
 Sponsor Contact: FMC - JOE REED

Pest Type	W WEED	W WEED	W WEED	W WEED
Pest Code	HORPU	AMBEL	HORPU	AMBEL
Pest Scientific Name	HORDEUM PUSILL>	AMBROSIA ARTEM>	HORDEUM PUSILL>	AMBROSIA ARTEM>
Pest Name	LITTLE BARLEY	COMMON RAGWEED	LITTLE BARLEY	COMMON RAGWEED
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	6/6/2013	6/6/2013	6/13/2013	6/13/2013
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Days After First/Last Applic.	7 7	7 7	14 14	14 14
Trt-Eval Interval	7 DA-A	7 DA-A	14 DA-A	14 DA-A
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment No. Name	Rate	Appl		
	Rate Unit	Code	1	2
			3	4
1 UNTREATED			0 b	0 b
2 AUTHORITY MTZ	70 g ai/a A		95 a	96 a
GRAMOXONE INTEON	170 g ai/a A			100 a
N-PAK AMS	4.9 % v/v A			95 a
ANTHEM	45.7 g ai/a B			
CLASSIC	5.3 g ai/a B			
ROUNDUP POWERMAX	624 g ae/a B			
N-PAK AMS	4.9 % v/v B			
3 AUTHORITY MTZ	70 g ai/a A		95 a	95 a
GRAMOXONE INTEON	227 g ai/a A			100 a
N-PAK AMS	4.9 % v/v A			99 a
ANTHEM	45.7 g ai/a B			
CLASSIC	5.3 g ai/a B			
ROUNDUP POWERMAX	624 g ae/a B			
N-PAK AMS	4.9 % v/v B			
4 SPARTAN	34 g ai/a A		95 a	93 a
SENCOR	106 g ai/a A			100 a
GRAMOXONE INTEON	170 g ai/a A			96 a
N-PAK AMS	4.9 % v/v A			
ANTHEM	45.7 g ai/a B			
CLASSIC	5.3 g ai/a B			
ROUNDUP POWERMAX	624 g ae/a B			
N-PAK AMS	4.9 % v/v B			
5 SPARTAN	34 g ai/a A		95 a	98 a
SENCOR	106 g ai/a A			100 a
GRAMOXONE INTEON	227 g ai/a A			100 a
N-PAK AMS	4.9 % v/v A			
ANTHEM	45.7 g ai/a B			
CLASSIC	5.3 g ai/a B			
ROUNDUP POWERMAX	624 g ae/a B			
N-PAK AMS	4.9 % v/v B			
6 SPARTAN	22.7 g ai/a A		95 a	96 a
SENCOR	106 g ai/a A			100 a
GRAMOXONE INTEON	170 g ai/a A			99 a
N-PAK AMS	4.9 % v/v A			
ANTHEM	45.7 g ai/a B			
CLASSIC	5.3 g ai/a B			
ROUNDUP POWERMAX	624 g ae/a B			
N-PAK AMS	4.9 % v/v B			

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Yates=12,13,14

Purdue University Weed Science

Pest Type	W WEED	W WEED	W WEED	W WEED		
Pest Code	HORPU	AMBEL	HORPU	AMBEL		
Pest Scientific Name	HORDEUM PUSILL>	AMBROSIA ARTEM>	HORDEUM PUSILL>	AMBROSIA ARTEM>		
Pest Name	LITTLE BARLEY	COMMON RAGWEED	LITTLE BARLEY	COMMON RAGWEED		
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	6/6/2013	6/6/2013	6/13/2013	6/13/2013		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Days After First/Last Applic.	7 7	7 7	14 14	14 14		
Trt-Eval Interval	7 DA-A	7 DA-A	14 DA-A	14 DA-A		
ARM Action Codes	P	P	P	P		
Number of Decimals	0	0	0	0		
Trt Treatment No. Name	Rate	Appl Code	1	2	3	4
7 SPARTAN	22.7 g ai/a	A	95 a	95 a	100 a	93 a
SENCOR	106 g ai/a	A				
GRAMOXONE INTEON	227 g ai/a	A				
N-PAK AMS	4.9 % v/v	A				
ANTHEM	45.7 g ai/a	B				
CLASSIC	5.3 g ai/a	B				
ROUNDUP POWERMAX	624 g ai/a	B				
N-PAK AMS	4.9 % v/v	B				
LSD (P=.05)			0.0	6.9	0.0	8.0
Standard Deviation			0.0	4.6	0.0	5.4
CV			0.0	5.65	0.0	6.48
Bartlett's X2			0.0	1.905	0.0	8.806
P(Bartlett's X2)			.	0.862	.	0.066
Skewness			-2.1586*	-2.0954*	-2.1586*	-2.0533*
Kurtosis			2.8592*	2.7017*	2.8592*	2.5647*

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Trt No.	Treatment Name	Rate	Unit	Appl Code	5	6	7	8
1	UNTREATED				0 a	0 b	0 b	0 b
2	AUTHORITY MTZ	70 g ai/a	A		0 a	96 a	91 a	95 a
	GRAMOXONE INTEON	170 g ai/a	A					
	N-PAK AMS	4.9 % v/v	A					
	ANTHEM	45.7 g ai/a	B					
	CLASSIC	5.3 g ai/a	B					
	ROUNDUP POWERMAX	624 g ae/a	B					
	N-PAK AMS	4.9 % v/v	B					
3	AUTHORITY MTZ	70 g ai/a	A		0 a	91 a	98 a	94 a
	GRAMOXONE INTEON	227 g ai/a	A					
	N-PAK AMS	4.9 % v/v	A					
	ANTHEM	45.7 g ai/a	B					
	CLASSIC	5.3 g ai/a	B					
	ROUNDUP POWERMAX	624 g ae/a	B					
	N-PAK AMS	4.9 % v/v	B					
4	SPARTAN	34 g ai/a	A		0 a	93 a	86 a	92 a
	SENCOR	106 g ai/a	A					
	GRAMOXONE INTEON	170 g ai/a	A					
	N-PAK AMS	4.9 % v/v	A					
	ANTHEM	45.7 g ai/a	B					
	CLASSIC	5.3 g ai/a	B					
	ROUNDUP POWERMAX	624 g ae/a	B					
	N-PAK AMS	4.9 % v/v	B					
5	SPARTAN	34 g ai/a	A		0 a	94 a	96 a	93 a
	SENCOR	106 g ai/a	A					
	GRAMOXONE INTEON	227 g ai/a	A					
	N-PAK AMS	4.9 % v/v	A					
	ANTHEM	45.7 g ai/a	B					
	CLASSIC	5.3 g ai/a	B					
	ROUNDUP POWERMAX	624 g ae/a	B					
	N-PAK AMS	4.9 % v/v	B					
6	SPARTAN	22.7 g ai/a	A		0 a	95 a	99 a	95 a
	SENCOR	106 g ai/a	A					
	GRAMOXONE INTEON	170 g ai/a	A					
	N-PAK AMS	4.9 % v/v	A					
	ANTHEM	45.7 g ai/a	B					
	CLASSIC	5.3 g ai/a	B					
	ROUNDUP POWERMAX	624 g ae/a	B					
	N-PAK AMS	4.9 % v/v	B					

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		W WEED PANDI PANICUM DICHOT> FALL PANICUM	W WEED AMBEL AMBROSIA ARTEM> COMMON RAGWEED	W WEED PANDI PANICUM DICHOT> FALL PANICUM	
Pest Type					
Pest Code					
Pest Scientific Name					
Pest Name					
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Scientific Name	GLYCINE MAX				
Crop Name	SOYBEAN				
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	
Rating Date	6/13/2013	6/13/2013	6/27/2013	7/12/2013	
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	%	
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	
Days After First/Last Applic.	14 14	14 14	28 28	43 7	
Trt-Eval Interval	14 DA-A	14 DA-A	28 DA-A	43 DA-A	
ARM Action Codes	P	P	P	P	
Number of Decimals	0	0	0	0	
Trt Treatment No. Name	Rate Unit Appl Code	5	6	7	8
7 SPARTAN	22.7 g ai/a A	0 a	98 a	90 a	92 a
SENCOR	106 g ai/a A				
GRAMOXONE INTEON	227 g ai/a A				
N-PAK AMS	4.9 % v/v A				
ANTHEM	45.7 g ai/a B				
CLASSIC	5.3 g ai/a B				
ROUNDUP POWERMAX	624 g ai/a B				
N-PAK AMS	4.9 % v/v B				
LSD (P=.05)	0.0	5.8	13.9	5.7	
Standard Deviation	0.0	3.9	9.3	3.8	
CV	0.0	4.83	11.68	4.78	
Bartlett's X2	0.0	3.187	10.442	1.014	
P(Bartlett's X2)	.	0.671	0.064	0.961	
Skewness	.	-2.0976*	-1.8894*	-2.092*	
Kurtosis	.	2.7103*	2.1072*	2.6929*	

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Trt No.	Treatment Name	Rate	Unit	Appl Code	9	10	11	12
1	UNTREATED				0 c	0 b	0 b	4.3944087 b
2	AUTHORITY MTZ	70 g ai/a	A		98 ab	100 a	100 a	15.0197768 a
	GRAMOXONE INTEON	170 g ai/a	A					
	N-PAK AMS	4.9 % v/v	A					
	ANTHEM	45.7 g ai/a	B					
	CLASSIC	5.3 g ai/a	B					
	ROUNDUP POWERMAX	624 g ae/a	B					
	N-PAK AMS	4.9 % v/v	B					
3	AUTHORITY MTZ	70 g ai/a	A		99 a	100 a	100 a	15.3557888 a
	GRAMOXONE INTEON	227 g ai/a	A					
	N-PAK AMS	4.9 % v/v	A					
	ANTHEM	45.7 g ai/a	B					
	CLASSIC	5.3 g ai/a	B					
	ROUNDUP POWERMAX	624 g ae/a	B					
	N-PAK AMS	4.9 % v/v	B					
4	SPARTAN	34 g ai/a	A		93 b	100 a	100 a	15.6380366 a
	SENCOR	106 g ai/a	A					
	GRAMOXONE INTEON	170 g ai/a	A					
	N-PAK AMS	4.9 % v/v	A					
	ANTHEM	45.7 g ai/a	B					
	CLASSIC	5.3 g ai/a	B					
	ROUNDUP POWERMAX	624 g ae/a	B					
	N-PAK AMS	4.9 % v/v	B					
5	SPARTAN	34 g ai/a	A		100 a	100 a	100 a	16.6729447 a
	SENCOR	106 g ai/a	A					
	GRAMOXONE INTEON	227 g ai/a	A					
	N-PAK AMS	4.9 % v/v	A					
	ANTHEM	45.7 g ai/a	B					
	CLASSIC	5.3 g ai/a	B					
	ROUNDUP POWERMAX	624 g ae/a	B					
	N-PAK AMS	4.9 % v/v	B					
6	SPARTAN	22.7 g ai/a	A		100 a	100 a	100 a	16.1756511 a
	SENCOR	106 g ai/a	A					
	GRAMOXONE INTEON	170 g ai/a	A					
	N-PAK AMS	4.9 % v/v	A					
	ANTHEM	45.7 g ai/a	B					
	CLASSIC	5.3 g ai/a	B					
	ROUNDUP POWERMAX	624 g ae/a	B					
	N-PAK AMS	4.9 % v/v	B					

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	W WEED AMBEL AMBROSIA ARTEM> COMMON RAGWEED	W WEED PANDI PANICUM DICHOT> FALL PANICUM	W WEED AMBEL AMBROSIA ARTEM> COMMON RAGWEED	
Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Code				GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Part Rated	PLOT P	PLOT P	PLOT P	YIELD C
Rating Date	7/12/2013	7/26/2013	7/26/2013	10/1/2013
Rating Type	CONTRO	CONTRO	CONTRO	YIELD
Rating Unit	%	%	%	lb/plot
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Days After First/Last Applic.	43 7	57 21	57 21	124 88
Trt-Eval Interval	43 DA-A	57 DA-A	57 DA-A	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt No.	9	10	11	12
Treatment Name				
Rate				
Unit				
Appl Code				
7 SPARTAN	22.7 g ai/a A	100 a	100 a	15.2617030 a
SENCOR	106 g ai/a A			
GRAMOXONE INTEON	227 g ai/a A			
N-PAK AMS	4.9 % v/v A			
ANTHEM	45.7 g ai/a B			
CLASSIC	5.3 g ai/a B			
ROUNDUP POWERMAX	624 g ai/a B			
N-PAK AMS	4.9 % v/v B			
LSD (P=.05)	4.1	0.0	0.0	2.52217415
Standard Deviation	2.8	0.0	0.0	1.69047065
CV	3.32	0.0	0.0	12.01
Bartlett's X2	20.748	0.0	0.0	5.729
P(Bartlett's X2)	0.001*	.	.	0.454
Skewness	-2.1224*	-2.1586*	-2.1586*	-1.7666*
Kurtosis	2.7614*	2.8592*	2.8592*	2.7334*

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Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Code	GLXMA	GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Part Rated	YIELD C	YIELD C	
Rating Date	10/1/2013	10/1/2013	
Rating Type	YIELD	YIELD	
Rating Unit	bu/ac	kg/ha	
Sample Size, Unit	1 PLOT	1 PLOT	
Days After First/Last Applic.	124 88	124 88	
Trt-Eval Interval			
ARM Action Codes	TY1	TY2	
Number of Decimals	1	1	
Trt No.	Treatment Name	Rate	Appl Code
		Rate Unit	
1	UNTREATED		
		12.2 b	818.8 b
2	AUTHORITY MTZ	70 g ai/a A	
	GRAMOXONE INTEON	170 g ai/a A	
	N-PAK AMS	4.9 % v/v A	
	ANTHEM	45.7 g ai/a B	
	CLASSIC	5.3 g ai/a B	
	ROUNDUP POWERMAX	624 g ae/a B	
	N-PAK AMS	4.9 % v/v B	
		41.6 a	2798.5 a
3	AUTHORITY MTZ	70 g ai/a A	
	GRAMOXONE INTEON	227 g ai/a A	
	N-PAK AMS	4.9 % v/v A	
	ANTHEM	45.7 g ai/a B	
	CLASSIC	5.3 g ai/a B	
	ROUNDUP POWERMAX	624 g ae/a B	
	N-PAK AMS	4.9 % v/v B	
		42.5 a	2861.1 a
4	SPARTAN	34 g ai/a A	
	SENCOR	106 g ai/a A	
	GRAMOXONE INTEON	170 g ai/a A	
	N-PAK AMS	4.9 % v/v A	
	ANTHEM	45.7 g ai/a B	
	CLASSIC	5.3 g ai/a B	
	ROUNDUP POWERMAX	624 g ae/a B	
	N-PAK AMS	4.9 % v/v B	
		43.3 a	2913.7 a
5	SPARTAN	34 g ai/a A	
	SENCOR	106 g ai/a A	
	GRAMOXONE INTEON	227 g ai/a A	
	N-PAK AMS	4.9 % v/v A	
	ANTHEM	45.7 g ai/a B	
	CLASSIC	5.3 g ai/a B	
	ROUNDUP POWERMAX	624 g ae/a B	
	N-PAK AMS	4.9 % v/v B	
		46.2 a	3106.5 a
6	SPARTAN	22.7 g ai/a A	
	SENCOR	106 g ai/a A	
	GRAMOXONE INTEON	170 g ai/a A	
	N-PAK AMS	4.9 % v/v A	
	ANTHEM	45.7 g ai/a B	
	CLASSIC	5.3 g ai/a B	
	ROUNDUP POWERMAX	624 g ae/a B	
	N-PAK AMS	4.9 % v/v B	
		44.8 a	3013.8 a

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Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Code	GLXMA	GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Part Rated	YIELD C	YIELD C	
Rating Date	10/1/2013	10/1/2013	
Rating Type	YIELD	YIELD	
Rating Unit	bu/ac	kg/ha	
Sample Size, Unit	1 PLOT	1 PLOT	
Days After First/Last Applic.	124 88	124 88	
Trt-Eval Interval			
ARM Action Codes	TY1	TY2	
Number of Decimals	1	1	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			13 14
7 SPARTAN	22.7 g ai/a	A	42.3 a 2843.5 a
SENCOR	106 g ai/a	A	
GRAMOXONE INTEON	227 g ai/a	A	
N-PAK AMS	4.9 % v/v	A	
ANTHEM	45.7 g ai/a	B	
CLASSIC	5.3 g ai/a	B	
ROUNDUP POWERMAX	624 g ai/a	B	
N-PAK AMS	4.9 % v/v	B	
LSD (P=.05)			6.99 469.93
Standard Deviation			4.68 314.97
CV			12.01 12.01
Bartlett's X2			5.729 5.729
P(Bartlett's X2)			0.454 0.454
Skewness			-1.7666* -1.7666*
Kurtosis			2.7334* 2.7334*

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Randomized Complete Block (RCB) AOV For W WEED AMBEL AMBROSIA ARTEMISIIFOLIA COMMON RAGWEED PLOT P 7/12/2013

CONTRO % 1 PLOT 43 7 43 DA-A P 0 (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	27	33124.678571			
Replicate	3	24.678571	8.226190	1.061	0.3902
Treatment	6	32960.428571	5493.404762	708.464	0.0001
Error	18	139.571429	7.753968		

Randomized Complete Block (RCB) AOV For W WEED PANDI PANICUM DICHOTOMIFLORUM FALL PANICUM PLOT P 7/26/2013 CONTRO

% 1 PLOT 57 21 57 DA-A P 0 (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	27	34285.714286			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	6	34285.714286	5714.285714	0.000	1.0000
Error	18	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For W WEED AMBEL AMBROSIA ARTEMISIIFOLIA COMMON RAGWEED PLOT P 7/26/2013

CONTRO % 1 PLOT 57 21 57 DA-A P 0 (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	27	34285.714286			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	6	34285.714286	5714.285714	0.000	1.0000
Error	18	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For GLXMA BSOY Glycine max Soybean YIELD C 10/1/2013 YIELD lb/plot 1 PLOT 124 88 (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	26	517.378318			
Replicate	3	23.756615	7.918872	2.771	0.0733
Treatment	6	445.040966	74.173494	25.956	0.0001
Error	17	48.580737	2.857690		

Randomized Complete Block (RCB) AOV For GLXMA BSOY Glycine max Soybean YIELD C 10/1/2013 YIELD bu/ac 1 PLOT 124 88 TY1 1 (Data Column 13)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	26	3971.176630			
Replicate	3	182.345704	60.781901	2.771	0.0733
Treatment	6	3415.945781	569.324297	25.956	0.0001
Error	17	372.885145	21.934420		

Randomized Complete Block (RCB) AOV For GLXMA BSOY Glycine max Soybean YIELD C 10/1/2013 YIELD kg/ha 1 PLOT 124 88 TY2 1 (Data Column 14)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	26	17960688.477532			
Replicate	3	824706.299583	274902.099861	2.771	0.0733
Treatment	6	15449511.250608	2574918.541768	25.956	0.0001
Error	17	1686470.927341	99204.172197		

Pest Type

W, WEED, G-BYRW7, G-WEDSTG = Weed or volunteer crop

Pest Code

HORPU, HORDEUM PUSILLUM, = US

AMBEL, AMBROSIA ARTEMISIIFOLIA, = US

PANDI, PANICUM DICHOTOMIFLORUM, = US

Crop Code

GLXMA, BSOY, GLYCINE MAX, = US

Part Rated

PLOT = plot

YIELD = yield

P = Pest is Part Rated

C = Crop is Part Rated

Rating Type

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

YIELD = yield

Rating Unit

% = percent

lb/plot = pounds per plot

bu/ac = bushels per acre

kg/ha = kilograms per hectare

PLOT = total plot

ARM Action Codes

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

TY1 = 2.770483*[12]

TY2 = 186.3191*[12]